

# HP Storage Operations Manager

Software Version: 10.00  
Linux® operating system

## Content Pack for HP 3PAR Performance Statistics Universe Reference

Document Release Date: March 2015  
Software Release Date: March 2015



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## Acknowledgements

This product includes software developed by the Apache Software Foundation.  
(<http://www.apache.org>)

This product includes software developed by the Indiana University Extreme! Lab.  
(<http://www.extreme.indiana.edu>)

## Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
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Universe Parameters

Definition

Name: SOM\_HP3PARPerfReporting Universe  
Description:

Connection: MA0.015234868198070628

General information

Created: 2/23/2015 by Administrator  
Modified: 2/25/2015 by Administrator  
Comments:

Statistics: 101 Classes  
1890 Objects  
39 Tables  
0 Aliases  
58 Joins  
25 Contexts  
14 Hierarchies  
39 Conditions

Strategies

Join strategy: Edit Manually (none)  
Table strategy: (Built-in) Standard  
Object strategy: (Built-in) Standard Renaming

Controls

Limit size of result set to: unchecked  
Limit size of long text objects to: 1000 characters  
Limit execution time to: 10 minutes  
Warn if cost estimate exceeds: unchecked

SQL parameters

Query  
Allow use of subqueries: yes  
Allow use of union, intersect and minus operators: yes  
Allow complex conditions in Query Panel: yes  
Cartesian products: warn  
Multiple paths  
Generate several SQL statements for each context: yes  
Generate several SQL statements for each measure: yes  
Allow selection of multiple contexts: no

Links

No links for this universe

## Object Properties

Class:	SOM_HP3PARPerfReporting_Core
Description:	

No objects

Class:	HP 3PAR Storage System Performance Statistics
Description:	HP 3PAR Storage System Performance Statistics

No objects

Class:	HP3PARStorageSystem( HP 3PAR Storage Syste m Statistics)
Description:	

Object:	SOM Source Name
Type:	Character
Description:	Name of the source SOM server
Select equivalent:	K_SE_StorageSystem.SEiSourceName
Where equivalent:	

Qualification:	dimension
List of values:	001, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Tenant Name
Type:	Character
Description:	Tenant Name
Select equivalent:	K_SE_StorageSystem.TenantName
Where equivalent:	

Qualification:	dimension
List of values:	002, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Vendor
Type:	Character
Description:	Storage system vendor name
Select equivalent:	K_SE_StorageSystem.Vendor
Where equivalent:	
Qualification:	dimension
List of values:	003, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Model
Type:	Character
Description:	Storage System Model Number
Select equivalent:	K_SE_StorageSystem.Model
Where equivalent:	
Qualification:	dimension
List of values:	004, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	
Qualification:	dimension
List of values:	005, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	006, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	007, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System IP Address
Type:	Character
Description:	IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.IPAddress
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	008, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System DNS
Type:	Character
Description:	DNS name of the Storage System
Select equivalent:	K_SE_StorageSystem.DNSName
Where equivalent:	

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	009, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System WWN
Type:	Character
Description:	World Wide Number of the Storage System
Select equivalent:	K_SE_StorageSystem.WWN
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00a, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System SerialNumber
Type:	Character
Description:	Serial Number of the Storage System
Select equivalent:	K_SE_StorageSystem.SerialNumber
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00b, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Status
Type:	Character
Description:	Operational status of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00c, editable, manual refresh, not exportable
Security access level:	0

---



Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Has Reset Capability?**  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00d, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Has Advanced Retention Management?**  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Cache Block Size**  
Type: Number  
Description: Cache Block Size  
Select equivalent: K\_SE\_StorageSystem.CacheBlockSize  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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---

Object: Has Compliance Mode?  
Type: Character  
Description: Has Compliance Mode (flag)  
Select equivalent: K\_SE\_StorageSystem.HasComplianceMode  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00g, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Domain  
Type: Character  
Description: Domain of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Domain  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00h, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00i, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Requested Capacity  
Type: Character  
Description: Requested Capacity  
Select equivalent: K\_SE\_StorageSystem.RequestedCapacity

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00j, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Is Manageable?**  
Type: Character  
Description: Is Manageable  
Select equivalent: K\_SE\_StorageSystem.IsManageable  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00k, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Maximum Volume Name Length**  
Type: Character  
Description: Maximum allowed length for Volume Names  
Select equivalent: K\_SE\_StorageSystem.MaxVolumeNameLength  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00l, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Replication IP**  
Type: Character  
Description: Replication IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationIP  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

List of values: 00m, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Replication Pools**  
Type: Character  
Description: Replication Pools of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationPools  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00n, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Replication Status**  
Type: Character  
Description: Replication Status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00o, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Storage On Access**  
Type: Character  
Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00p, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Business Cost**  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00q, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **DKC Microcode Version**  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00r, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Family**  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00s, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Hardware Version**  
Type: Character

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Description: Hardware Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.HardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00t, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Identifying Descriptions  
Type: Character  
Description: Identifying Descriptions for the Storage System  
Select equivalent: K\_SE\_StorageSystem.IdentifyingDescriptions  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00u, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Other Identifying Info  
Type: Character  
Description: Other Identifying Info for the Storage System  
Select equivalent: K\_SE\_StorageSystem.OtherIdentifyingInfo  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 00v, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Provider Tag  
Type: Character  
Description: Provider Tag of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ProviderTag  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00w, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Parent Name</b>
Type:	Character
Description:	Parent Name for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00x, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Parent UUID</b>
Type:	Character
Description:	Parent UUID for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentUUID
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	00y, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Power Management</b>
Type:	Character
Description:	Power Management
Select equivalent:	K_SE_StorageSystem.PowerManagement
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	010, editable, manual refresh, not exportable
Security access level:	0

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Can be used:	in result, in condition, in sort
Object status:	show

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Object:	<b>Roles</b>
Type:	Character
Description:	Roles of the Storage System
Select equivalent:	K_SE_StorageSystem.Roles
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	011, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Primary Owner Name</b>
Type:	Character
Description:	Primary Owner Name of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	012, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Primary Owner Contact</b>
Type:	Character
Description:	Primary Owner Contact of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerContact
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	013, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object: Last Contacted Timestamp  
Type: Date  
Description: Shows the time stamp of when the storage system was last contacted  
Select equivalent: K\_SE\_StorageSystem.LastContactedTimestamp  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 014, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Management URL  
Type: Character  
Description: Management URL of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ManagementURL  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 015, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 016, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Object Type  
Type: Character

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Description: Object Type  
Select equivalent: K\_SE\_StorageSystem.ObjectType  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 017, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System UUID  
Type: Character  
Description: UUID of the Storage System  
Select equivalent: K\_SE\_StorageSystem.UUID  
Where equivalent:

Qualification: dimension  
List of values: 018, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR Storage System Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 019, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month  
Type: Character  
Description: Month Name first Three Characters  
Select equivalent: (SUBSTR(DATETIME.TIME\_MONTH\_NAME,1,3))  
Where equivalent:

---

Qualification:	dimension
List of values:	01a, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Month Name
Type:	Character
Description:	Month Name
Select equivalent:	DATETIME.TIME_MONTH_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Month
List of values:	01b, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day
Type:	Number
Description:	Day
Select equivalent:	DATETIME.TIME_DAY_MONTH_NUMBER
Where equivalent:	

Qualification:	dimension
List of values:	01c, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day Name
Type:	Character
Description:	Day Name
Select equivalent:	DATETIME.TIME_DAY_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Day
List of values:	01d, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Hour  
Type: Number  
Description: Hour  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: dimension  
List of values: 01e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Id  
Type: Number  
Description: Hour Id  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 01f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Hour Description  
Type: Character  
Description: Time Hour Description  
Select equivalent: DATETIME.TIME\_HOUR\_DESCRIPTION  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 01g, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Full Date  
Type: Date

---

---

Description: Full Date  
Select equivalent: DATETIME.TIME\_FULL\_DATE  
Where equivalent:

Qualification: dimension  
List of values: 01h, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Holiday  
Type: Character  
Description: Time Is Holiday  
Select equivalent: DATETIME.TIME\_IS\_HOLIDAY  
Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 01i, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Weekday  
Type: Character  
Description: Time Is Weekday  
Select equivalent: DATETIME.TIME\_IS\_WEEKDAY  
Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 01j, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Boundary  
Type: Number  
Description: Hour Boundary  
Select equivalent: DATETIME.HOUR\_BOUNDARY  
Where equivalent:

Qualification: dimension

---

---

List of values:	01k, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Day Boundary
Type:	Number
Description:	Day Boundary
Select equivalent:	DATETIME.DAY_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	01l, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Week Boundary
Type:	Number
Description:	Week Boundary
Select equivalent:	DATETIME.WEEK_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	01m, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Month Boundary
Type:	Number
Description:	Month Boundary
Select equivalent:	DATETIME.MONTH_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	01n, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

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Object:	Year Boundary
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Type: Number  
Description: Year Boundary  
Select equivalent: DATETIME.YEAR\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 01o, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

Class:	Raw HP 3PAR Storage System Statistics
Description:	

Object: Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Rate at which data can be transmitted between devices for the entire storage system  
Select equivalent: SR\_SE\_3PAR\_Stor\_Sys\_Stats.TotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total I/O Rate (Req/Sec)  
Type: Number  
Description: Average number of I/O operations in requests per second for reads and writes for the entire storage system.  
Select equivalent: SR\_SE\_3PAR\_Stor\_Sys\_Stats.TotalIORate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0

Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly HP 3PAR Storage System Statistics
Description:	

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate at which data can be transmitted between devices for the entire storage system  
Select equivalent: SH\_SE\_3PAR\_Stor\_Sys\_Stats.MAXTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate at which data can be transmitted between devices for the entire storage system  
Select equivalent: SH\_SE\_3PAR\_Stor\_Sys\_Stats.MINTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate at which data can be transmitted between devices for the entire



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	storage system
Select equivalent:	SH_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	SH_SE_3PAR_Stor_Sys_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	SH_SE_3PAR_Stor_Sys_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	SH_SE_3PAR_Stor_Sys_Stats.AVGTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Daily HP 3PAR Storage System Statistics
Description:	

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate at which data can be transmitted between devices for the entire storage system
Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.MAXTotalDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate at which data can be transmitted between devices for the entire storage system

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Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.MINTotalDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate at which data can be transmitted between devices for the entire storage system
Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.MAXTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Average number of I/O operations in requ ests per second for reads and writes for the entire storage system.
Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.MINTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Average number of I/O operations in requ ests per second for reads and writes for the entire storage system.
Select equivalent:	SD_SE_3PAR_Stor_Sys_Stats.AVGTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HourlyOLAP-HP 3PAR Storage System Statistics
Description:	

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate at which dat a can be transmitted betw een devices for the entire storage system
Select equivalent:	max(SH_SE_3PAR_Stor_Sys_Stats.MAXTotalDataRate)

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Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate at which data can be transmitted between devices for the entire storage system
Select equivalent:	min(SH_SE_3PAR_Stor_Sys_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate at which data can be transmitted between devices for the entire storage system
Select equivalent:	avg(SH_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number

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Description:	Maximum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	max(SH_SE_3PAR_Stor_Sys_Stats.MAXTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	min(SH_SE_3PAR_Stor_Sys_Stats.MINTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	avg(SH_SE_3PAR_Stor_Sys_Stats.AVGTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average

---

List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DailyOLAP-HP 3PAR Storage System Statistics
Description:	

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate at which data can be transmitted between devices for the entire storage system  
Select equivalent: max(SD\_SE\_3PAR\_Stor\_Sys\_Stats.MAXTotalDataRate)  
Where equivalent:  
  
Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate at which data can be transmitted between devices for the entire storage system  
Select equivalent: min(SD\_SE\_3PAR\_Stor\_Sys\_Stats.MINTotalDataRate)  
Where equivalent:  
  
Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate at which data

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	a can be transmitted between devices for the entire storage system
Select equivalent:	avg(SD_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	max(SD_SE_3PAR_Stor_Sys_Stats.MAXTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	min(SD_SE_3PAR_Stor_Sys_Stats.MINTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

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Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Average number of I/O operations in requests per second for reads and writes for the entire storage system.
Select equivalent:	avg(SD_SE_3PAR_Stor_Sys_Stats.AVGTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HP 3PAR Storage Volume Performance Statistics
Description:	HP 3PAR Storage Volume Performance Statistics

No objects

Class:	HP3PARStorageVolume( HP 3PAR Storage Volume Statistics)
Description:	

Object:	SOM Source Name
Type:	Character
Description:	Name of the source SOM server
Select equivalent:	K_SE_StorageSystem.SEiSourceName
Where equivalent:	

Qualification:	dimension
List of values:	02t, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Tenant Name
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Type:	Character
Description:	Tenant Name
Select equivalent:	K_SE_StorageSystem.TenantName
Where equivalent:	

Qualification:	dimension
List of values:	02u, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Vendor
Type:	Character
Description:	Storage system vendor name
Select equivalent:	K_SE_StorageSystem.Vendor
Where equivalent:	

Qualification:	dimension
List of values:	02v, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Model
Type:	Character
Description:	Storage System Model Number
Select equivalent:	K_SE_StorageSystem.Model
Where equivalent:	

Qualification:	dimension
List of values:	02w, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	

Qualification:	dimension
List of values:	02x, editable, manual refresh, not exportable

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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	02y, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	030, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Storage System IP Address
Type:	Character
Description:	IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.IPAddress
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	031, editable, manual refresh, not exportable
Security access level:	0

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Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Storage System DNS
Type:	Character
Description:	DNS name of the Storage System
Select equivalent:	K_SE_StorageSystem.DNSName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	032, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System WWN
Type:	Character
Description:	World Wide Number of the Storage System
Select equivalent:	K_SE_StorageSystem.WWN
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	033, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System SerialNumber
Type:	Character
Description:	Serial Number of the Storage System
Select equivalent:	K_SE_StorageSystem.SerialNumber
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	034, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object: Storage System Status  
Type: Character  
Description: Operational status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 035, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Reset Capability?  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 036, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 037, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Cache Block Size  
Type: Number  
Description: Cache Block Size  
Select equivalent: K\_SE\_StorageSystem.CacheBlockSize

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 038, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Compliance Mode?  
Type: Character  
Description: Has Compliance Mode (flag)  
Select equivalent: K\_SE\_StorageSystem.HasComplianceMode  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 039, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Domain  
Type: Character  
Description: Domain of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Domain  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03a, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

---

List of values:	03b, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	<b>Requested Capacity</b>
Type:	Character
Description:	Requested Capacity
Select equivalent:	K_SE_StorageSystem.RequestedCapacity
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03c, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Is Manageable?</b>
Type:	Character
Description:	Is Manageable
Select equivalent:	K_SE_StorageSystem.IsManageable
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03d, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Volume Name Length</b>
Type:	Character
Description:	Maximum allowed length for Volume Names
Select equivalent:	K_SE_StorageSystem.MaxVolumeNameLength
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03e, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Replication IP
Type:	Character
Description:	Replication IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationIP
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03f, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Replication Pools
Type:	Character
Description:	Replication Pools of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationPools
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03g, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Status
Type:	Character
Description:	Replication Status of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03h, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Storage On Access
Type:	Character



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Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03i, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Business Cost  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03j, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: DKC Microcode Version  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03k, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Family  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03l, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Hardware Version</b>
Type:	Character
Description:	Hardware Version of the Storage System
Select equivalent:	K_SE_StorageSystem.HardwareVersion
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03m, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Identifying Descriptions</b>
Type:	Character
Description:	Identifying Descriptions for the Storage System
Select equivalent:	K_SE_StorageSystem.IdentifyingDescriptions
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03n, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Other Identifying Info</b>
Type:	Character
Description:	Other Identifying Info for the Storage System
Select equivalent:	K_SE_StorageSystem.OtherIdentifyingInfo
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03o, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Provider Tag**  
Type: Character  
Description: Provider Tag of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ProviderTag  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03p, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Parent Name**  
Type: Character  
Description: Parent Name for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03q, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Parent UUID**  
Type: Character  
Description: Parent UUID for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentUUID  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03r, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Power Management  
Type: Character  
Description: Power Management  
Select equivalent: K\_SE\_StorageSystem.PowerManagement  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03s, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Roles  
Type: Character  
Description: Roles of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03t, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Primary Owner Name  
Type: Character  
Description: Primary Owner Name of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03u, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Primary Owner Contact  
Type: Character  
Description: Primary Owner Contact of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerContact

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03v, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Last Contacted Timestamp  
Type: Date  
Description: Shows the time stamp of when the storage system was last contacted  
Select equivalent: K\_SE\_StorageSystem.LastContactedTimestamp  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03w, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Management URL  
Type: Character  
Description: Management URL of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ManagementURL  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 03x, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	03y, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Object Type</b>
Type:	Character
Description:	Object Type
Select equivalent:	K_SE_StorageSystem.ObjectType
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	040, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Block Pool Name</b>
Type:	Character
Description:	Block Pool Name
Select equivalent:	K_SE_Storage_Pool.SANPoolName
Where equivalent:	

Qualification:	dimension
List of values:	041, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Block Pool Description</b>
Type:	Character
Description:	Description about Block Pool
Select equivalent:	K_SE_Storage_Pool.SANPoolDescription
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	042, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Parent Pool Name  
Type: Character  
Description: Parent Pool Name  
Select equivalent: K\_SE\_Storage\_Pool.ParentPoolName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 043, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total Available Space (GB)  
Type: Number  
Description: Total Available Space in GB  
Select equivalent: K\_SE\_Storage\_Pool.TotalAvailableSpaceGB  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 044, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total Available Space (GiB)  
Type: Number  
Description: Total Available Space in GiB  
Select equivalent: K\_SE\_Storage\_Pool.TotalAvailableSpaceGiB  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 045, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Name

---

---

Type: Character  
Description: Storage Capability Name  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 046, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Common Name  
Type: Character  
Description: Storage Capability Common Name  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityCommonName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 047, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Description  
Type: Character  
Description: Storage Capability Description  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityDescription  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 048, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: No Single Point Of Failure  
Type: Character  
Description: No Single Point Of Failure  
Select equivalent: K\_SE\_Storage\_Pool.NoSinglePtOfFailure  
Where equivalent:



---

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 049, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Default No Single Point Of Failure  
Type: Character  
Description: Default No Single Point Of Failure  
Select equivalent: K\_SE\_Storage\_Pool.DefaultNoSinglePtOfFailure  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04a, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Min Data Redundancy  
Type: Number  
Description: Minimum Data Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MinDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04b, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Max Data Redundancy  
Type: Number  
Description: Maximum Data Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MaxDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04c, editable, manual refresh, not exportable

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Default Data Redundancy**  
Type: Number  
Description: Default Data Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.DefaultDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04d, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Min Spindle Redundancy**  
Type: Number  
Description: Minimum Spindle Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MinSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Max Spindle Redundancy**  
Type: Number  
Description: Maximum Spindle Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MaxSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Default Spindle Redundancy
Type:	Number
Description:	Default Spindle Redundancy
Select equivalent:	K_SE_Storage_Pool.DefaultSpindleRedundancy
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	04g, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Min Delta Reservation
Type:	Number
Description:	Minimum Delta Reservation
Select equivalent:	K_SE_Storage_Pool.MinDeltaReservation
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	04h, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Max Delta Reservation
Type:	Number
Description:	Maximum Delta Reservation
Select equivalent:	K_SE_Storage_Pool.MaxDeltaReservation
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	04i, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Default Delta Reservation
Type:	Number
Description:	Default Delta Reservation

---

Select equivalent: K\_SE\_Storage\_Pool.DefaultDeltaReservation  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04j, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Space Limit (GB)  
Type: Number  
Description: Space Limit in GB  
Select equivalent: K\_SE\_Storage\_Pool.SpaceLimitGB  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04k, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Space Limit (GiB)  
Type: Number  
Description: Space Limit in GiB  
Select equivalent: K\_SE\_Storage\_Pool.SpaceLimitGiB  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04l, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Space Limit Determination  
Type: Number  
Description: Space Limit Determination  
Select equivalent: K\_SE\_Storage\_Pool.SpaceLimitDetermination  
Where equivalent:

Qualification: detail

---

---

Associated dimension name: Block Pool Name  
List of values: 04m, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Composition  
Type: Character  
Description: Shows type of pool like Internal, External, Hybrid ....  
Select equivalent: K\_SE\_Storage\_Pool.Composition  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04n, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Pool Type  
Type: Character  
Description: Block Pool type - Primordial, Concrete, Open, Mainframe, Snapshot, Reserved, Parent concrete ...  
Select equivalent: K\_SE\_Storage\_Pool.SANPoolType  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 04o, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Volume Name  
Type: Character  
Description: Name of the Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.SANVolumeName  
Where equivalent:

Qualification: dimension  
List of values: 04p, editable, manual refresh, not exportable

---

---

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **OID**  
Type: Character  
Description: Unique Identifier for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.OID  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04q, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Volume Device ID**  
Type: Character  
Description: Block Volume Device ID  
Select equivalent: K\_SE\_Storage\_Volume.VolumeDeviceId  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04r, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Block Volume Access Type**  
Type: Character  
Description: Block Volume Access Type  
Select equivalent: K\_SE\_Storage\_Volume.AccessType  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04s, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Block Volume Block Size in Bytes
Type:	Number
Description:	Block Volume Block Size in Bytes
Select equivalent:	K_SE_Storage_Volume.BlockSize
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	04t, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Number of Blocks
Type:	Number
Description:	Number of blocks in Block Volume
Select equivalent:	K_SE_Storage_Volume.NumberOfBlocks
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	04u, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Volume Size Bytes
Type:	Number
Description:	Source Block Volume Size in Bytes
Select equivalent:	K_SE_Storage_Volume.VolumeSizeBytes
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	04v, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume Consumable Blocks
Type:	Number
Description:	Number of consumable blocks in Block Volume

---

Select equivalent: K\_SE\_Storage\_Volume.ConsumableBlocks  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04w, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Volume Consumed Blocks  
Type: Number  
Description: Actual consumed physical

space of the volume. Note

: This object only applicable for Block systems that support Thin Provisioning

Select equivalent: K\_SE\_Storage\_Volume.ConsumedBlocks  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04x, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Is Thinly Provisioned?  
Type: Character  
Description: Indicates Whether Block Volume is Thinly Provisioned or not  
Select equivalent: K\_SE\_Storage\_Volume.IsThinlyProvisioned  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 04y, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Raw Space (Bytes)  
Type: Number  
Description: Raw Space in Bytes that is



---

	consumed by the Block volume from the underlying Block extents
Select equivalent:	K_SE_Storage_Volume.RawSpace
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	050, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Raw Space (GB)
Type:	Number
Description:	Raw Space in GB that is consumed by the Block volume from the underlying Block extents
Select equivalent:	K_SE_Storage_Volume.RawSpaceGB
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	051, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Raw Space (GiB)
Type:	Number
Description:	Raw Space in GiB that is consumed by the Block volume from the underlying Block extents
Select equivalent:	K_SE_Storage_Volume.RawSpaceGiB
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	052, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	RAID Type
Type:	Character
Description:	RAID Type - A String representation of the RAID level and configuration of the underlying Block extent(s) that the volume is based on. E.g. 'RAID5(7D+1P)'.
Select equivalent:	K_SE_Storage_Volume.RaidType
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	053, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Sequential Access?
Type:	Character
Description:	Indicates whether sequential access or not
Select equivalent:	K_SE_Storage_Volume.SeqAccess
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	054, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume Availability
Type:	Character
Description:	Whether Block Volume is Available
Select equivalent:	K_SE_Storage_Volume.Availability
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	055, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Status Information  
Type: Character  
Description: Block Volume Status Information  
Select equivalent: K\_SE\_Storage\_Volume.StatusInfo  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 056, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Type  
Type: Character  
Description: Volume Type - {'Open','Mainframe', 'Mainframe Mapping' - Volume known to be mapped from FINCON or ESCO N port. EFile - Volume known to be mapped through a File port}  
Select equivalent: K\_SE\_Storage\_Volume.VolumeType  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 057, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Purpose  
Type: Character  
Description: Volume Purpose represents the Block Volume Emulation type for supported Block Arrays  
Select equivalent: K\_SE\_Storage\_Volume.VolumePurpose  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	058, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Volume Default Single Point of Failure
Type:	Number
Description:	Default Single Point of Failure for Block Volume
Select equivalent:	K_SE_Storage_Volume.VolDfltSnglPtofFailure
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	059, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Volume No Single Point of Failure
Type:	Character
Description:	No Single Point of Failure for Block Volume
Select equivalent:	K_SE_Storage_Volume.VolNoSinglePointofFailure
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05a, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Volume Minimum Data Redundancy
Type:	Number
Description:	Minimum Data Redundancy for Block Volume
Select equivalent:	K_SE_Storage_Volume.VolMinDataRedundancy
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05b, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Maximum Data Redundancy  
Type: Number  
Description: Maximum Data Redundancy for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolMaxDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05c, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Default Data Redundancy  
Type: Number  
Description: Default Data Redundancy for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolDefaultDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05d, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Minimum Spindle Redundancy  
Type: Number  
Description: Minimum Spindle Redundancy for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolMinSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object: Volume Maximum Spindle Redundancy  
Type: Number  
Description: Maximum Spindle Redundancy for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolMaxSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Default Spindle Redundancy  
Type: Number  
Description: Default Spindle Redundancy for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolDefaultSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05g, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Minimum Delta Reservation  
Type: Number  
Description: Minimum Delta Reservation for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolMinDeltaReservation  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05h, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Volume Maximum Delta Reservation  
Type: Number  
Description: Maximum Delta Reservation for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.VolMaxDeltaReservation

---

Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05i, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Volume Default Delta Reservation  
Type: Number  
Description: Default Delta Reservation for Block Volume  
Select equivalent: K\_SE\_Storage\_Volume.DefaultDeltaReservation  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05j, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Actual Blocks  
Type: Number  
Description: Actual Number of Blocks  
Select equivalent: K\_SE\_Storage\_Volume.ActualBlocks  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name  
List of values: 05k, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Used Blocks  
Type: Number  
Description: Number of Used Blocks  
Select equivalent: K\_SE\_Storage\_Volume.UsedBlocks  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Volume Name

---

List of values:	05l, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume Controller Name
Type:	Character
Description:	Controller Name
Select equivalent:	K_SE_Storage_Volume.ControllerName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05m, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume Composition
Type:	Character
Description:	Shows type of volume like Internal, External, Hybrid...
Select equivalent:	K_SE_Storage_Volume.Composition
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05n, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume Description
Type:	Character
Description:	Block Volume Description
Select equivalent:	K_SE_Storage_Volume.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05o, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object:	Storage Capabilities
Type:	Character
Description:	Storage Capabilities
Select equivalent:	K_SE_Storage_Volume.StorageCapabilities
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Volume Name
List of values:	05p, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System UUID
Type:	Character
Description:	UUID of the Storage System
Select equivalent:	K_SE_StorageSystem.UUID
Where equivalent:	
Qualification:	dimension
List of values:	05q, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Pool UUID
Type:	Character
Description:	UUID of the Block Pool
Select equivalent:	K_SE_Storage_Pool.SANPoolUUID
Where equivalent:	
Qualification:	dimension
List of values:	05r, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Volume UUID
Type:	Character
Description:	UUID of the Block Volume
Select equivalent:	K_SE_Storage_Volume.SANVolumeUUID

---

Where equivalent:

Qualification: dimension  
List of values: 05s, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR Storage Volume Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 05t, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month  
Type: Character  
Description: Month Name first Three Characters  
Select equivalent: (SUBSTR(DATETIME.TIME\_MONTH\_NAME,1,3))  
Where equivalent:

Qualification: dimension  
List of values: 05u, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month Name  
Type: Character  
Description: Month Name  
Select equivalent: DATETIME.TIME\_MONTH\_NAME  
Where equivalent:

Qualification: detail  
Associated dimension name: Month

---

List of values:	05v, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day
Type:	Number
Description:	Day
Select equivalent:	DATETIME.TIME_DAY_MONTH_NUMBER
Where equivalent:	

Qualification:	dimension
List of values:	05w, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day Name
Type:	Character
Description:	Day Name
Select equivalent:	DATETIME.TIME_DAY_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Day
List of values:	05x, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour
Type:	Number
Description:	Hour
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	

Qualification:	dimension
List of values:	05y, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Hour Id  
Type: Number  
Description: Hour Id  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 060, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Hour Description  
Type: Character  
Description: Time Hour Description  
Select equivalent: DATETIME.TIME\_HOUR\_DESCRIPTION  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 061, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Full Date  
Type: Date  
Description: Full Date  
Select equivalent: DATETIME.TIME\_FULL\_DATE  
Where equivalent:

Qualification: dimension  
List of values: 062, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Holiday  
Type: Character  
Description: Time Is Holiday  
Select equivalent: DATETIME.TIME\_IS\_HOLIDAY  
Where equivalent:

---

Qualification: detail  
Associated dimension name: Full Date  
List of values: 063, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Weekday  
Type: Character  
Description: Time Is Weekday  
Select equivalent: DATETIME.TIME\_IS\_WEEKDAY  
Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 064, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Boundary  
Type: Number  
Description: Hour Boundary  
Select equivalent: DATETIME.HOUR\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 065, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Day Boundary  
Type: Number  
Description: Day Boundary  
Select equivalent: DATETIME.DAY\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 066, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

Object status: hidden

---

Object: Week Boundary  
Type: Number  
Description: Week Boundary  
Select equivalent: DATETIME.WEEK\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 067, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Month Boundary  
Type: Number  
Description: Month Boundary  
Select equivalent: DATETIME.MONTH\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 068, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Year Boundary  
Type: Number  
Description: Year Boundary  
Select equivalent: DATETIME.YEAR\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 069, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

Class:	Raw HP 3PAR Storage Volume Statistics
Description:	

Object: Write Data Rate (Bytes/Sec)

---

Type: Number  
Description: Write throughput rate (Bytes per second)  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.WriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Read throughput rate (Bytes per second)  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.ReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Rate data is transmitted between devices  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.TotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Read Hit Rate (Req/Sec)  
Type: Number  
Description: Read cache hit rate (requests per second)  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.ReadHitRate  
Where equivalent:

---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Size (Bytes)
Type:	Number
Description:	Average read size of I/Os read
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.AvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.AvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Write I/Os
Type:	Number
Description:	Ratio of write I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.PctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Read I/Os
Type:	Number
Description:	Ratio of read I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.PctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Hit Rate
Type:	Number
Description:	Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.PctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Read I/O Rate (Req/Sec)  
Type: Number  
Description: Number of read requests per second  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.ReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total I/O Rate (Req/Sec)  
Type: Number  
Description: Number of read and write  
I/O operations given in re  
quests per second  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.TotalIORate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average I/O Response Time (ms)  
Type: Number  
Description: Average time to complete an I/O operation in milliseconds  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.AvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Average Read I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a read I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.AvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a write I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.AvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average % Busy
Type:	Number
Description:	Average time the storage system was busy
Select equivalent:	SR_SE_3PAR_Stor_Vol_Stats.AvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average number of pending read and write I/O operations

---

Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.AvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Delta read hit I/Os (Req/Sec)  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.DeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Delta write I/Os (Req/Sec)  
Select equivalent: SR\_SE\_3PAR\_Stor\_Vol\_Stats.DeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly HP 3PAR Storage Volume Statistics
Description:	

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteDataRate

---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number

---

Description: Minimum Read cache hit rate (requests per second)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Hit Rate (Req/Sec)  
Type: Number  
Description: Average Read cache hit rate (requests per second)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadSize  
Where equivalent:



---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
---------	--------------------

---

---

Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINPctHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXWriteRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINWriteRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number

---

---

Description: Average Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read requests per second  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read requests per second  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of read requests per second  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadRate  
Where equivalent:

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations

---

---

	given in requests per second
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
---------	---

---

---

Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGAvgIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no

---



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds

---

---

Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write I/O Response Time (ms)

Type: Number

Description: Average of Average time to complete a write I/O operation in milliseconds

Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average % Busy

Type: Number

Description: Maximum of Average time the storage system was busy

Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgPercentBusy

Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average % Busy

Type: Number

Description: Minimum of Average time the storage system was busy

---

---

Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgPercentBusy  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Queue Depth  
Type: Number  
Description: Maximum of Average number of pending read and write I/O operations  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Queue Depth  
Type: Number  
Description: Minimum of Average number of pending read and write I/O operations  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Queue Depth  
Type: Number  
Description: Average of Average number

---

of pending read and write  
I/O operations  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta read hit I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta read hit I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Average Delta read hit I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaReadHitIOs  
Where equivalent:

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MAXDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.MINDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_Stor_Vol_Stats.AVGDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily HP 3PAR Storage Volume Statistics
Description:	

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXReadHitRate

---



---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number

---

Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Hit Rate  
Type: Number  
Description: Maximum Ratio of read and  
write cache hit rate to t  
otal number of I/O operati  
ons

---

Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Hit Rate  
Type: Number  
Description: Minimum Ratio of read and  
write cache hit rate to t  
otal number of I/O operati  
ons  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteRate

---

---

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read requests per second  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read requests per second  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINTotalIORate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds



---

Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average I/O Response Time (ms)  
Type: Number  
Description: Average of Average time to complete an I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete a read I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average

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---

	<b>Read I/O Response Time (ms)</b>
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Average of Average Read I/O Response Time (ms)</b>
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum of Average Write I/O Response Time (ms)</b>
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgPercentBusy
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINAvgQueueDepth
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
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Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.AVGDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MAXDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_Stor_Vol_Stats.MINDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Average Delta write I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	HourlyOLAP-HP 3PAR Storage Volume Statistics
Description:	

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: max(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: min(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number

---



---

Description: Average Read throughput rate (Bytes per second)  
Select equivalent: avg(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: max(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate data is transmitted between devices  
Select equivalent: min(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate data is transmitted between devices  
Select equivalent: avg(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalDataRate)  
Where equivalent:

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXPctWriteIOs)

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

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---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Hit Rate</b>
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Hit Rate</b>
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Write I/O Rate (Req/Sec)</b>
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXWriteRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---



---

Object status: show

---

Object: Minimum Total I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum of Number of read  
and write I/O operations  
given in requests per second  
Select equivalent: min(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalIORate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total I/O Rate (Req/Sec)  
Type: Number  
Description: Average of Number of read  
and write I/O operations  
given in requests per second  
Select equivalent: avg(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalIORate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to  
complete an I/O operation  
in milliseconds  
Select equivalent: max(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgIOResponseTime)  
Where equivalent:

Qualification: measure

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---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds

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Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average
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	Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_Stor_Vol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_Stor_Vol_Stats.MINDeltaWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_Stor_Vol_Stats.AVGDeltaWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP-HP 3PAR Storage Volume Statistics
Description:	

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show



---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)

---

Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Read throughput rate (Bytes per second)  
Select equivalent: avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate data is transmitted between devices  
Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalDataRate)  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average Read Hit Rate (Req/Sec)  
Type: Number  
Description: Average Read cache hit rate (requests per second)  
Select equivalent: avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadHitRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)

---

---

Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteSize)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINPctHitRate)
Where equivalent:	

Qualification:	measure
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---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---



Object status: show

---

Object: Maximum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read requests per second  
Select equivalent: max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read requests per second  
Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of read requests per second  
Select equivalent: avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total I/O Rate (Req/Sec)

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---

Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---

Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
 Type: Number  
 Description: Maximum of Average time to complete an I/O operation in milliseconds  
 Select equivalent: max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgIOResponseTime)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Max  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Minimum of Average I/O Response Time (ms)  
 Type: Number  
 Description: Minimum of Average time to complete an I/O operation in milliseconds  
 Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgIOResponseTime)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Min  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Average of Average I/O Response Time (ms)  
 Type: Number  
 Description: Average of Average time to complete an I/O operation in milliseconds  
 Select equivalent: avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Average

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation

---

Select equivalent:                      ration in milliseconds  
    avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadIORespTime)  
 Where equivalent:

Qualification:                            measure  
 Aggregate function:                      Average  
 List of values:                            no  
 Security access level:                    0  
 Can be used:                              in result, in condition, in sort  
 Object status:                             show

---

Object:                                    Maximum of Average  
    Write I/O Response T  
    ime (ms)  
 Type:                                       Number  
 Description:                               Maximum of Average time t  
    o complete a write I/O ope  
    ration in milliseconds  
 Select equivalent:                        max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgWriteIORespTime)  
 Where equivalent:

Qualification:                            measure  
 Aggregate function:                      Max  
 List of values:                            no  
 Security access level:                    0  
 Can be used:                              in result, in condition, in sort  
 Object status:                             show

---

Object:                                    Minimum of Average  
    Write I/O Response T  
    ime (ms)  
 Type:                                       Number  
 Description:                               Minimum of Average time t  
    o complete a write I/O ope  
    ration in milliseconds  
 Select equivalent:                        min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteIORespTime)  
 Where equivalent:

Qualification:                            measure  
 Aggregate function:                      Min  
 List of values:                            no  
 Security access level:                    0  
 Can be used:                              in result, in condition, in sort  
 Object status:                             show

---

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXAvgPercentBusy)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINAvgPercentBusy)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta read hit I/Os (Req/Sec)  
Select equivalent: max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaReadHitIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta read hit I/Os (Req/Sec)  
Select equivalent: min(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINDeltaReadHitIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Average Delta read hit I/Os (Req/Sec)  
Select equivalent: avg(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaReadHitIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---



---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_Stor_Vol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SD_SE_3PAR_Stor_Vol_Stats.MINDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SD_SE_3PAR_Stor_Vol_Stats.AVGDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HP 3PAR Controller Performance Statistics
Description:	HP 3PAR Controller Performance Statistics

No objects

---

Class: HP3PARStorageProcess  
or(HP 3PAR Controller  
Statistics)

Description:

Object: SOM Source Name  
Type: Character  
Description: Name of the source SOM server  
Select equivalent: K\_SE\_StorageSystem.SEiSourceName  
Where equivalent:

Qualification: dimension  
List of values: 0d9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Tenant Name  
Type: Character  
Description: Tenant Name  
Select equivalent: K\_SE\_StorageSystem.TenantName  
Where equivalent:

Qualification: dimension  
List of values: 0da, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Vendor  
Type: Character  
Description: Storage system vendor name  
Select equivalent: K\_SE\_StorageSystem.Vendor  
Where equivalent:

Qualification: dimension  
List of values: 0db, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Model

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---

Type:	Character
Description:	Storage System Model Number
Select equivalent:	K_SE_StorageSystem.Model
Where equivalent:	
Qualification:	dimension
List of values:	0dc, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	
Qualification:	dimension
List of values:	0dd, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0de, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0df, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System IP Address  
Type: Character  
Description: IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.IPAddress  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System DNS  
Type: Character  
Description: DNS name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DNSName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System WWN  
Type: Character  
Description: World Wide Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

---

List of values:	Odi, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System SerialNumber
Type:	Character
Description:	Serial Number of the Storage System
Select equivalent:	K_SE_StorageSystem.SerialNumber
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0dj, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Status
Type:	Character
Description:	Operational status of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0dk, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Has Reset Capability?
Type:	Character
Description:	Has Reset Capability (flag)
Select equivalent:	K_SE_StorageSystem.HasResetCapability
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0dl, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: Odm, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Cache Block Size  
Type: Number  
Description: Cache Block Size  
Select equivalent: K\_SE\_StorageSystem.CacheBlockSize  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: Odn, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Compliance Mode?  
Type: Character  
Description: Has Compliance Mode (flag)  
Select equivalent: K\_SE\_StorageSystem.HasComplianceMode  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: Odo, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Domain  
Type: Character

---

---

Description: Domain of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Domain  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dp, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dq, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Requested Capacity  
Type: Character  
Description: Requested Capacity  
Select equivalent: K\_SE\_StorageSystem.RequestedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dr, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Is Manageable?  
Type: Character  
Description: Is Manageable  
Select equivalent: K\_SE\_StorageSystem.IsManageable  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ds, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Volume Name Length
Type:	Character
Description:	Maximum allowed length for Volume Names
Select equivalent:	K_SE_StorageSystem.MaxVolumeNameLength
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0dt, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication IP
Type:	Character
Description:	Replication IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationIP
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0du, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Pools
Type:	Character
Description:	Replication Pools of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationPools
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0dv, editable, manual refresh, not exportable
Security access level:	0

---



Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Replication Status**  
Type: Character  
Description: Replication Status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Storage On Access**  
Type: Character  
Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dx, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Business Cost**  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0dy, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object: DKC Microcode Version  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Family  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hardware Version  
Type: Character  
Description: Hardware Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.HardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Identifying Descriptions  
Type: Character  
Description: Identifying Descriptions for the Storage System  
Select equivalent: K\_SE\_StorageSystem.IdentifyingDescriptions

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Other Identifying Info  
Type: Character  
Description: Other Identifying Info for the Storage System  
Select equivalent: K\_SE\_StorageSystem.OtherIdentifyingInfo  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e4, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Provider Tag  
Type: Character  
Description: Provider Tag of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ProviderTag  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0e5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Parent Name  
Type: Character  
Description: Parent Name for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

---

List of values:	0e6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent UUID
Type:	Character
Description:	Parent UUID for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentUUID
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0e7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Power Management
Type:	Character
Description:	Power Management
Select equivalent:	K_SE_StorageSystem.PowerManagement
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0e8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Roles
Type:	Character
Description:	Roles of the Storage System
Select equivalent:	K_SE_StorageSystem.Roles
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0e9, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Primary Owner Name
Type:	Character
Description:	Primary Owner Name of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerName
Where equivalent:	
Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ea, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Primary Owner Contact
Type:	Character
Description:	Primary Owner Contact of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerContact
Where equivalent:	
Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0eb, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Last Contacted Timestamp
Type:	Date
Description:	Shows the time stamp of when the storage system was last contacted
Select equivalent:	K_SE_StorageSystem.LastContactedTimestamp
Where equivalent:	
Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ec, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Management URL  
Type: Character  
Description: Management URL of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ManagementURL  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0ed, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0ee, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Object Type  
Type: Character  
Description: Object Type  
Select equivalent: K\_SE\_StorageSystem.ObjectType  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0ef, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Name  
Type: Character  
Description: Name of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.SANProcessorName

---

Where equivalent:

Qualification: dimension  
List of values: 0eg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Vendor  
Type: Character  
Description: Vendor Name of Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.Vendor  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0eh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Description  
Type: Character  
Description: Description of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.Description  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0ei, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: IP Address  
Type: Character  
Description: IP Address of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.IPAddress  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0ej, editable, manual refresh, not exportable

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: DNS  
Type: Character  
Description: DNS name of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.DNSName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0ek, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: WWN  
Type: Character  
Description: World Wide Name of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0el, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Model  
Type: Character  
Description: Model name of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.Model  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0em, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show



---

Object:	Storage Processor Power Management
Type:	Character
Description:	Indicates whether Power management is supported or not on the Block System Processor
Select equivalent:	K_SE_Storage_Processor.PowerManagement
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	On, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Serial Number
Type:	Character
Description:	Serial Number of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.SerialNumber
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	Off, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Version
Type:	Character
Description:	Version of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.Version
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	Off, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Processor Status  
Type: Character  
Description: Status of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.ProcessorStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0eq, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Reset Capability  
Type: Character  
Description: Reset Capability of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.ResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0er, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Roles  
Type: Character  
Description: Roles of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0es, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System UUID  
Type: Character  
Description: UUID of the Storage System  
Select equivalent: K\_SE\_StorageSystem.UUID

---

Where equivalent:

Qualification: dimension  
List of values: 0et, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor UUID  
Type: Character  
Description: UUID of the Block Processor  
Select equivalent: K\_SE\_Storage\_Processor.SANProcessorUUID  
Where equivalent:

Qualification: dimension  
List of values: 0eu, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR Controller Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 0ev, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month  
Type: Character  
Description: Month Name first Three Characters  
Select equivalent: (SUBSTR(DATETIME.TIME\_MONTH\_NAME,1,3))  
Where equivalent:

Qualification: dimension  
List of values: 0ew, editable, manual refresh, not exportable

---

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Month Name**  
Type: Character  
Description: Month Name  
Select equivalent: DATETIME.TIME\_MONTH\_NAME  
Where equivalent:

Qualification: detail  
Associated dimension name: Month  
List of values: 0ex, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Day**  
Type: Number  
Description: Day  
Select equivalent: DATETIME.TIME\_DAY\_MONTH\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 0ey, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Day Name**  
Type: Character  
Description: Day Name  
Select equivalent: DATETIME.TIME\_DAY\_NAME  
Where equivalent:

Qualification: detail  
Associated dimension name: Day  
List of values: 0f0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object: Hour  
Type: Number  
Description: Hour  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: dimension  
List of values: 0f1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Id  
Type: Number  
Description: Hour Id  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 0f2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Hour Description  
Type: Character  
Description: Time Hour Description  
Select equivalent: DATETIME.TIME\_HOUR\_DESCRIPTION  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 0f3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Full Date  
Type: Date  
Description: Full Date  
Select equivalent: DATETIME.TIME\_FULL\_DATE  
Where equivalent:

---

Qualification:	dimension
List of values:	0f4, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Holiday
Type:	Character
Description:	Time Is Holiday
Select equivalent:	DATETIME.TIME_IS_HOLIDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	0f5, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Weekday
Type:	Character
Description:	Time Is Weekday
Select equivalent:	DATETIME.TIME_IS_WEEKDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	0f6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Boundary
Type:	Number
Description:	Hour Boundary
Select equivalent:	DATETIME.HOUR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0f7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: hidden

---

Object: Day Boundary  
Type: Number  
Description: Day Boundary  
Select equivalent: DATETIME.DAY\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0f8, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Week Boundary  
Type: Number  
Description: Week Boundary  
Select equivalent: DATETIME.WEEK\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0f9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Month Boundary  
Type: Number  
Description: Month Boundary  
Select equivalent: DATETIME.MONTH\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0fa, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Year Boundary  
Type: Number  
Description: Year Boundary  
Select equivalent: DATETIME.YEAR\_BOUNDARY

---

Where equivalent:

Qualification: dimension  
List of values: 0fb, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

Class:	Raw HP 3PAR Controller Statistics
Description:	

Object: % Read I/Os  
Type: Number  
Description: Ratio of read I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.PctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: % Write I/Os  
Type: Number  
Description: Ratio of write I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.PctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Size (Bytes)  
Type: Number  
Description: Average read size of I/Os read  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.AvgReadSize  
Where equivalent:



---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.AvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	I/O Response Time (ms)
Type:	Number
Description:	Time to complete an I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.IOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Hits
Type:	Number
Description:	Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.PctHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Queue Depth
Type:	Number
Description:	Average number of pending read and write I/O operations
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.QueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Read throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.ReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read requests per second
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.ReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Service Time (ms)
Type:	Number
Description:	Average service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.ServiceTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Rate data is transmitted between devices
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.TotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read and write I/O operations given in requests per second
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.TotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: % Utilization  
Type: Number  
Description: Utilization rate of the storage system processes  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.Utilization  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Write throughput rate (Bytes per second)  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.WriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Write Hit Rate (Req/Sec)  
Type: Number  
Description: The cumulative count of Write Cache Hits (Writes that went directly to Cache)  
Select equivalent: SR\_SE\_3PAR\_Cntrlr\_Stats.WriteHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_Cntrlr_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Hourly HP 3PAR Controller Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MINPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MAXAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MINAvgReadSize

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum I/O Response Time (ms)
Type:	Number
Description:	Maximum Time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum I/O Response Time (ms)
Type:	Number
Description:	Minimum Time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object:	Average I/O Response Time (ms)
Type:	Number
Description:	Average Time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hits
Type:	Number
Description:	Maximum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXPctHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hits
Type:	Number
Description:	Minimum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINPctHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Average

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Service Time (ms)
Type:	Number

---

Description:	Maximum The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXServiceTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Service Time (ms)
Type:	Number
Description:	Minimum The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINServiceTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Service Time (ms)
Type:	Number
Description:	Average The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGServiceTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGTotalIORate
Where equivalent:	
Qualification:	measure

---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Utilization</b>
Type:	Number
Description:	Maximum Utilization rate of the storage system processes
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXUtilization
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Utilization</b>
Type:	Number
Description:	Minimum Utilization rate of the storage system processes
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINUtilization
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Write Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---



Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MINWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Write throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.AVGWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write Hit Rate (Req/Sec)  
Type: Number  
Description: Maximum of the cumulative  
count of Write Cache Hits  
(Writes that went directl  
y to Cache)  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MAXWriteHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Minimum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum of the cumulative count of Write Cache Hits (Writes that went directly to Cache)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MINWriteHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Hit Rate (Req/Sec)
Type:	Number
Description:	Average of the cumulative count of Write Cache Hits (Writes that went directly to Cache)
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.AVGWriteHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SH_SE_3PAR_Cntrlr_Stats.MAXWriteRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.MINWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_Cntrlr\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily HP 3PAR Controller Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Cntrlr\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort

---

Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Cntrlr\_Stats.MINPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Cntrlr\_Stats.MAXPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Cntrlr\_Stats.MINPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)

---

---

Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXAvgWriteSize
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum I/O Response Time (ms)
Type:	Number
Description:	Maximum Time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum I/O Response Time (ms)
Type:	Number
Description:	Minimum Time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average I/O Response Time (ms)
Type:	Number
Description:	Average Time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hits
Type:	Number
Description:	Maximum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXPctHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hits
Type:	Number
Description:	Minimum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINPctHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINQueueDepth
Where equivalent:	

Qualification:	measure
----------------	---------



---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Service Time (ms)
Type:	Number
Description:	Maximum of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXServiceTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Service Time (ms)
Type:	Number
Description:	Minimum of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINServiceTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Average Service Time (ms)</b>
Type:	Number
Description:	Average of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGServiceTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Total Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum Total Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
----------------	---------

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGTotallORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Utilization
Type:	Number
Description:	Maximum Utilization rate of the storage system processes
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXUtilization
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Utilization
Type:	Number
Description:	Minimum Utilization rate of the storage system processes
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINUtilization
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXWriteHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINWriteHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Hit Rate (Req/Sec)
Type:	Number
Description:	Average of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGWriteHitRate
Where equivalent:	
Qualification:	measure

---



---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	SD_SE_3PAR_Cntrlr_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

Class:	HourlyOLAP-HP 3PAR Controller Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: min(SH\_SE\_3PAR\_Cntrlr\_Stats.MINPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number

---

---

Description: Average of Average read size of I/Os read  
Select equivalent: avg(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: max(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)  
Type: Number  
Description: Minimum of Average write size of I/Os written  
Select equivalent: min(SH\_SE\_3PAR\_Cntrlr\_Stats.MINAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: avg(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGAvgWriteSize)  
Where equivalent:

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum I/O Response Time (ms)
Type:	Number
Description:	Maximum Time to complete an I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum I/O Response Time (ms)
Type:	Number
Description:	Minimum Time to complete an I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average I/O Response Time (ms)
Type:	Number
Description:	Average Time to complete an I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Hits</b>
Type:	Number
Description:	Maximum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXPctHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Hits</b>
Type:	Number
Description:	Minimum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINPctHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Queue Depth</b>
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXQueueDepth)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXReadDataRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---



---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Service Time (ms)
Type:	Number
Description:	Maximum of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXServiceTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Service Time (ms)
Type:	Number
Description:	Minimum of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINServiceTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Service Time (ms)
Type:	Number
Description:	Average of The service time since the system start time, for all read and write I/O operations in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGServiceTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXTotalDataRate)
Where equivalent:	

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
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---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Utilization
Type:	Number
Description:	Maximum Utilization rate of the storage system processes
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXUtilization)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Utilization
Type:	Number
Description:	Minimum Utilization rate of the storage system processes
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINUtilization)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXWriteHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINWriteHitRate)
Where equivalent:	

Qualification:	measure
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---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Hit Rate (Req/Sec)
Type:	Number
Description:	Average of the cumulative count of Write Cache Hits (Writes that went directly to Cache)
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGWriteHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SH_SE_3PAR_Cntrlr_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SH_SE_3PAR_Cntrlr_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SH_SE_3PAR_Cntrlr_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP-HP 3PAR Controller Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Write I/Os</b>
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Write I/Os</b>
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum of Average Read Size (Bytes)</b>
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written

---

---

Select equivalent: min(SD\_SE\_3PAR\_Cntrlr\_Stats.MINAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: avg(SD\_SE\_3PAR\_Cntrlr\_Stats.AVGAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum I/O Response Time (ms)  
Type: Number  
Description: Maximum Time to complete an I/O operation in milliseconds  
Select equivalent: max(SD\_SE\_3PAR\_Cntrlr\_Stats.MAXIOResponseTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum I/O Response Time (ms)  
Type: Number  
Description: Minimum Time to complete an I/O operation in milliseconds  
Select equivalent: min(SD\_SE\_3PAR\_Cntrlr\_Stats.MINIOResponseTime)  
Where equivalent:

Qualification: measure

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---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average I/O Response Time (ms)
Type:	Number
Description:	Average Time to complete an I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hits
Type:	Number
Description:	Maximum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXPctHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hits
Type:	Number
Description:	Minimum Percentage of read and write cache hit rate to total number of I/O operations
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINPctHitIOs)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations

---

Select equivalent: avg(SD\_SE\_3PAR\_Cntrlr\_Stats.AVGQueueDepth)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Read throughput rate (Bytes per second)  
Select equivalent: max(SD\_SE\_3PAR\_Cntrlr\_Stats.MAXReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Read throughput rate (Bytes per second)  
Select equivalent: min(SD\_SE\_3PAR\_Cntrlr\_Stats.MINReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Read throughput rate (Bytes per second)  
Select equivalent: avg(SD\_SE\_3PAR\_Cntrlr\_Stats.AVGReadDataRate)  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Maximum Service Time (ms)  
Type: Number  
Description: Maximum of The service time since the system start time, for all read and write I/O operations in milliseconds  
Select equivalent: max(SD\_SE\_3PAR\_Cntrlr\_Stats.MAXServiceTime)  
Where equivalent:  
  
Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Service Time (ms)  
Type: Number  
Description: Minimum of The service time since the system start time, for all read and write I/O operations in milliseconds  
Select equivalent: min(SD\_SE\_3PAR\_Cntrlr\_Stats.MINServiceTime)  
Where equivalent:  
  
Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Service Time (ms)  
Type: Number  
Description: Average of The service time since the system start time, for all read and write I/O operations in milliseconds



---

Select equivalent: avg(SD\_SE\_3PAR\_Cntrlr\_Stats.AVGServiceTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: max(SD\_SE\_3PAR\_Cntrlr\_Stats.MAXTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate data is transmitted between devices  
Select equivalent: min(SD\_SE\_3PAR\_Cntrlr\_Stats.MINTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate data is transmitted between devices  
Select equivalent: avg(SD\_SE\_3PAR\_Cntrlr\_Stats.AVGTotalDataRate)  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second

---

Select equivalent:	nd avg(SD_SE_3PAR_Cntrlr_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Utilization
Type:	Number
Description:	Maximum Utilization rate of the storage system processes
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXUtilization)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Utilization
Type:	Number
Description:	Minimum Utilization rate of the storage system processes
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINUtilization)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXWriteDataRate)
Where equivalent:	

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum of the cumulative count of Write Cache Hits (Writes that went directl y to Cache)
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXWriteHitRate)
Where equivalent:	

Qualification:	measure
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Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum of the cumulative count of Write Cache Hits (Writes that went directly to Cache)
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINWriteHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Hit Rate (Req/Sec)
Type:	Number
Description:	Average of the cumulative count of Write Cache Hits (Writes that went directly to Cache)
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGWriteHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SD_SE_3PAR_Cntrlr_Stats.MAXWriteRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SD_SE_3PAR_Cntrlr_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SD_SE_3PAR_Cntrlr_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HP 3PAR Disk Performance Statistics
Description:	HP 3PAR Disk Performance Statistics

No objects

Class:	HP3PARDiskDrive(HP 3PAR Disk Statistics)
Description:	

Object:	SOM Source Name
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Type:	Character
Description:	Name of the source SOM server
Select equivalent:	K_SE_StorageSystem.SEiSourceName
Where equivalent:	
Qualification:	dimension
List of values:	017, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Tenant Name
Type:	Character
Description:	Tenant Name
Select equivalent:	K_SE_StorageSystem.TenantName
Where equivalent:	
Qualification:	dimension
List of values:	018, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Vendor
Type:	Character
Description:	Storage system vendor name
Select equivalent:	K_SE_StorageSystem.Vendor
Where equivalent:	
Qualification:	dimension
List of values:	019, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Model
Type:	Character
Description:	Storage System Model Number
Select equivalent:	K_SE_StorageSystem.Model
Where equivalent:	
Qualification:	dimension
List of values:	01a, editable, manual refresh, not exportable

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---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	

Qualification:	dimension
List of values:	0lb, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0lc, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ld, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---



Object status: show

---

Object: Storage System IP Address  
Type: Character  
Description: IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.IPAddress  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0le, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System DNS  
Type: Character  
Description: DNS name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DNSName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lf, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System WWN  
Type: Character  
Description: World Wide Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System SerialNumber

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Type: Character  
Description: Serial Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.SerialNumber  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Status  
Type: Character  
Description: Operational status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0li, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Reset Capability?  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lj, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0lk, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Cache Block Size
Type:	Number
Description:	Cache Block Size
Select equivalent:	K_SE_StorageSystem.CacheBlockSize
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ll, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Has Compliance Mode?
Type:	Character
Description:	Has Compliance Mode (flag)
Select equivalent:	K_SE_StorageSystem.HasComplianceMode
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0lm, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Domain
Type:	Character
Description:	Domain of the Storage System
Select equivalent:	K_SE_StorageSystem.Domain
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ln, editable, manual refresh, not exportable

---

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lo, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Requested Capacity  
Type: Character  
Description: Requested Capacity  
Select equivalent: K\_SE\_StorageSystem.RequestedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lp, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Is Manageable?  
Type: Character  
Description: Is Manageable  
Select equivalent: K\_SE\_StorageSystem.IsManageable  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lq, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Maximum Volume Name Length
Type:	Character
Description:	Maximum allowed length for Volume Names
Select equivalent:	K_SE_StorageSystem.MaxVolumeNameLength
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0lr, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication IP
Type:	Character
Description:	Replication IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationIP
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ls, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Pools
Type:	Character
Description:	Replication Pools of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationPools
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0lt, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Status
Type:	Character
Description:	Replication Status of the Storage System

---

---

Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lu, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage On Access  
Type: Character  
Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Business Cost  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0lw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: DKC Microcode Version  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail

---

---

Associated dimension name: Storage System Name  
List of values: 0lx, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Family  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0ly, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hardware Version  
Type: Character  
Description: Hardware Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.HardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Identifying Descriptions  
Type: Character  
Description: Identifying Descriptions for the Storage System  
Select equivalent: K\_SE\_StorageSystem.IdentifyingDescriptions  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

---

Object status: show

---

Object: Other Identifying Info  
Type: Character  
Description: Other Identifying Info for the Storage System  
Select equivalent: K\_SE\_StorageSystem.OtherIdentifyingInfo  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Provider Tag  
Type: Character  
Description: Provider Tag of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ProviderTag  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Parent Name  
Type: Character  
Description: Parent Name for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m4, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Parent UUID

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---

Type: Character  
Description: Parent UUID for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentUUID  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Power Management  
Type: Character  
Description: Power Management  
Select equivalent: K\_SE\_StorageSystem.PowerManagement  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m6, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Roles  
Type: Character  
Description: Roles of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0m7, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Primary Owner Name  
Type: Character  
Description: Primary Owner Name of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerName  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0m8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Primary Owner Contact
Type:	Character
Description:	Primary Owner Contact of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerContact
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0m9, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Last Contacted Timestamp
Type:	Date
Description:	Shows the time stamp of when the storage system was last contacted
Select equivalent:	K_SE_StorageSystem.LastContactedTimestamp
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ma, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Management URL
Type:	Character
Description:	Management URL of the Storage System
Select equivalent:	K_SE_StorageSystem.ManagementURL
Where equivalent:	

Qualification:	detail
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---

Associated dimension name: Storage System Name  
List of values: 0mb, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0mc, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Object Type  
Type: Character  
Description: Object Type  
Select equivalent: K\_SE\_StorageSystem.ObjectType  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0md, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive Name  
Type: Character  
Description: Name of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.DiskDriveName  
Where equivalent:

Qualification: dimension  
List of values: 0me, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object: Disk Drive Vendor  
Type: Character  
Description: Vendor name of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.Vendor  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mf, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive Description  
Type: Character  
Description: Description of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.Description  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive Model  
Type: Character  
Description: Model name of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.Model  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive Serial Number  
Type: Character

---

Description: Serial Number of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.SerialNumber  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mi, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive Hardware Version  
Type: Character  
Description: Hardware Version of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.SDDHardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mj, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: SCSI BUS  
Type: Character  
Description: SCSI bus of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.SCSIBUS  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mk, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: SCSI LUN  
Type: Character  
Description: SCSI LUN of the disk drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.SCSILUN  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Disk Drive Name
List of values:	0ml, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	SCSI Port
Type:	Character
Description:	SCSI port of the disk drive
Select equivalent:	K_SE_Storage_DiskDrive.SCSIPort
Where equivalent:	

Qualification:	detail
Associated dimension name:	Disk Drive Name
List of values:	0mm, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Max Media Size in GiB
Type:	Number
Description:	Maximum Media Size in GiB uses 1024 i.e. base 2 when converting values from bytes to gigabytes
Select equivalent:	K_SE_Storage_DiskDrive.MaxMediaSizeinGiB
Where equivalent:	

Qualification:	detail
Associated dimension name:	Disk Drive Name
List of values:	0mn, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Max Media Size in GB
Type:	Number
Description:	Maximum Media Size in GB uses 1000 i.e. base 10 when converting values from bytes to gigabytes
Select equivalent:	K_SE_Storage_DiskDrive.MaxMediaSizeinGB

---

Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mo, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Max Block Size**  
Type: Number  
Description: Maximum Block Size in Bytes  
Select equivalent: K\_SE\_Storage\_DiskDrive.MaxBlockSize  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mp, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Min Block Size**  
Type: Number  
Description: Minimum Block Size in Bytes  
Select equivalent: K\_SE\_Storage\_DiskDrive.MinBlockSize  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mq, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Enable Status**  
Type: Character  
Description: Enable Status  
Select equivalent: K\_SE\_Storage\_DiskDrive.EnableStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name

List of values: 0mr, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Drive Type**  
Type: Character  
Description: Type of Drive  
Select equivalent: K\_SE\_Storage\_DiskDrive.DriveType  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0ms, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Disk Type**  
Type: Character  
Description: Type of Disk  
Select equivalent: K\_SE\_Storage\_DiskDrive.DiskType  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mt, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Availability**  
Type: Character  
Description: Availability  
Select equivalent: K\_SE\_Storage\_DiskDrive.Availability  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mu, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show



---

Object: RPM  
Type: Character  
Description: Revolutions per minute  
Select equivalent: K\_SE\_Storage\_DiskDrive.RPM  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Architecture  
Type: Character  
Description: Architecture  
Select equivalent: K\_SE\_Storage\_DiskDrive.Architecture  
Where equivalent:

Qualification: detail  
Associated dimension name: Disk Drive Name  
List of values: 0mw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System UUID  
Type: Character  
Description: UUID of the Storage System  
Select equivalent: K\_SE\_StorageSystem.UUID  
Where equivalent:

Qualification: dimension  
List of values: 0mx, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Disk Drive UUID  
Type: Character  
Description: UUID of the Disk Drive

Select equivalent: K\_SE\_Storage\_DiskDrive.DiskDriveUUID  
Where equivalent:

Qualification: dimension  
List of values: 0my, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR Disk Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 0n0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month  
Type: Character  
Description: Month Name first Three Characters  
Select equivalent: (SUBSTR(DATETIME.TIME\_MONTH\_NAME,1,3))  
Where equivalent:

Qualification: dimension  
List of values: 0n1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month Name  
Type: Character  
Description: Month Name  
Select equivalent: DATETIME.TIME\_MONTH\_NAME  
Where equivalent:

Qualification: detail

---

Associated dimension name: Month  
List of values: 0n2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Day  
Type: Number  
Description: Day  
Select equivalent: DATETIME.TIME\_DAY\_MONTH\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 0n3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Day Name  
Type: Character  
Description: Day Name  
Select equivalent: DATETIME.TIME\_DAY\_NAME  
Where equivalent:

Qualification: detail  
Associated dimension name: Day  
List of values: 0n4, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour  
Type: Number  
Description: Hour  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: dimension  
List of values: 0n5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Hour Id
Type:	Number
Description:	Hour Id
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	

Qualification:	detail
Associated dimension name:	Hour
List of values:	0n6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Hour Description
Type:	Character
Description:	Time Hour Description
Select equivalent:	DATETIME.TIME_HOUR_DESCRIPTION
Where equivalent:	

Qualification:	detail
Associated dimension name:	Hour
List of values:	0n7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date
Type:	Date
Description:	Full Date
Select equivalent:	DATETIME.TIME_FULL_DATE
Where equivalent:	

Qualification:	dimension
List of values:	0n8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Holiday
Type:	Character
Description:	Time Is Holiday
Select equivalent:	DATETIME.TIME_IS_HOLIDAY

Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 0n9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Weekday  
Type: Character  
Description: Time Is Weekday  
Select equivalent: DATETIME.TIME\_IS\_WEEKDAY  
Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 0na, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Boundary  
Type: Number  
Description: Hour Boundary  
Select equivalent: DATETIME.HOUR\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0nb, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Day Boundary  
Type: Number  
Description: Day Boundary  
Select equivalent: DATETIME.DAY\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0nc, editable, manual refresh, not exportable  
Security access level: 0

---

Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Week Boundary
Type:	Number
Description:	Week Boundary
Select equivalent:	DATETIME.WEEK_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0nd, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Month Boundary
Type:	Number
Description:	Month Boundary
Select equivalent:	DATETIME.MONTH_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	One, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Year Boundary
Type:	Number
Description:	Year Boundary
Select equivalent:	DATETIME.YEAR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0nf, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

Class:	Raw HP 3PAR Disk Statistics
Description:	

---

Object: % Write I/Os  
Type: Number  
Description: Ratio of write I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.PctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: % Read I/Os  
Type: Number  
Description: Ratio of read I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.PctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average I/O Response Time (ms)  
Type: Number  
Description: Average time to complete an I/O operation in milliseconds  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.AvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Queue Depth  
Type: Number  
Description: Average number of pending read and write I/O operations  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.AvgQueueDepth

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Size (Bytes)
Type:	Number
Description:	Average read size of I/Os read
Select equivalent:	SR_SE_3PAR_Disk_Stats.AvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_Disk_Stats.AvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Read throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_Disk_Stats.ReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None

---



---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read requests per second
Select equivalent:	SR_SE_3PAR_Disk_Stats.ReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Rate data is transmitted between devices
Select equivalent:	SR_SE_3PAR_Disk_Stats.TotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read and write I/O operations given in re quests per second
Select equivalent:	SR_SE_3PAR_Disk_Stats.TotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Write throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_Disk_Stats.WriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_Disk_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a read I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_Disk_Stats.AvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Average Write I/O Response Time (ms)  
Type: Number  
Description: Average time to complete a write I/O operation in milliseconds  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.AvgWriteIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average % Busy  
Type: Number  
Description: Average time the storage system was busy  
Select equivalent: SR\_SE\_3PAR\_Disk\_Stats.AvgPercentBusy  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly HP 3PAR Disk Statistics
Description:	

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MAXPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os

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---

Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds

---

Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MAXAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average I/O Response Time (ms)  
Type: Number  
Description: Minimum of Average time t  
o complete an I/O operati  
on in milliseconds  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MINAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average I/O Response Time (ms)  
Type: Number  
Description: Average of Average time t  
o complete an I/O operati  
on in milliseconds  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.AVGAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Queue Depth  
Type: Number  
Description: Maximum of Average numbe

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	r of pending read and writ e I/O operations
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average Read Size (Bytes)
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Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgWriteSize
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices

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Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MINTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate data is transmitted between devices  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.AVGTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum of Number of read  
and write I/O operations  
given in requests per second  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MAXTotalIORate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum of Number of read  
and write I/O operations

---

	given in requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number

---

---

Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MINWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Write throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.AVGWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MAXWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_Disk\_Stats.MINWriteRate  
Where equivalent:

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation

---

Select equivalent:	ration in milliseconds SH_SE_3PAR_Disk_Stats.MINAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time t o complete a read I/O ope ration in milliseconds
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response T ime (ms)
Type:	Number
Description:	Maximum of Average time t o complete a write I/O ope ration in milliseconds
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_Disk_Stats.AVGAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_Disk_Stats.MAXAvgPercentBusy
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---



---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_Disk_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Daily HP 3PAR Disk Statistics
Description:	

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MINPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete an I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MAXAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINAvgIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGAvgIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Minimum of Average Queue Depth  
Type: Number  
Description: Minimum of Average number  
of pending read and write  
I/O operations  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MINAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Queue Depth  
Type: Number  
Description: Average of Average number  
of pending read and write  
I/O operations  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.AVGAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MAXAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort

---

---

Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MINAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)  
Type: Number  
Description: Average of Average read size of I/Os read  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.AVGAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MAXAvgWriteSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)

---

---

Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINReadDataRate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average Total I/O Rate (Req/Sec)  
Type: Number  
Description: Average of Number of read  
and write I/O operations  
given in requests per second  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.AVGTotalIORate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MAXWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_Disk\_Stats.MINWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number

---

Description:	Average Number of write requests per second
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINAvgWriteIORespTime
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_Disk_Stats.AVGAvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_Disk_Stats.MAXAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_Disk_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	HourlyOLAP-HP 3PAR Disk Statistics
Description:	

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_Disk\_Stats.MAXPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: min(SH\_SE\_3PAR\_Disk\_Stats.MINPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_Disk\_Stats.MAXPctReadIOs)  
Where equivalent:

Qualification: measure

---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
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---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgQueueDepth)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
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---

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: avg(SH\_SE\_3PAR\_Disk\_Stats.AVGAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Read throughput rate (Bytes per second)  
Select equivalent: max(SH\_SE\_3PAR\_Disk\_Stats.MAXReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Read throughput rate (Bytes per second)  
Select equivalent: min(SH\_SE\_3PAR\_Disk\_Stats.MINReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Data Rate (Bytes/Sec)

---

---

Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGReadRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGTotalIORate)

---

Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: max(SH\_SE\_3PAR\_Disk\_Stats.MAXWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: min(SH\_SE\_3PAR\_Disk\_Stats.MINWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Write throughput rate (Bytes per second)  
Select equivalent: avg(SH\_SE\_3PAR\_Disk\_Stats.AVGWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average



---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_Disk_Stats.AVGAvgReadIORespTime)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_Disk_Stats.MAXAvgWriteIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_Disk_Stats.MINAvgWriteIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average of Average Write I/O Response Time
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Type: me (ms)  
 Number  
 Description: Average of Average time to complete a write I/O operation in milliseconds  
 Select equivalent: avg(SH\_SE\_3PAR\_Disk\_Stats.AVGAvgWriteIORespTime)  
 Where equivalent:  
 Qualification: measure  
 Aggregate function: Average  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Maximum of Average % Busy  
 Type: Number  
 Description: Maximum of Average time the storage system was busy  
 Select equivalent: max(SH\_SE\_3PAR\_Disk\_Stats.MAXAvgPercentBusy)  
 Where equivalent:  
 Qualification: measure  
 Aggregate function: Max  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Minimum of Average % Busy  
 Type: Number  
 Description: Minimum of Average time the storage system was busy  
 Select equivalent: min(SH\_SE\_3PAR\_Disk\_Stats.MINAvgPercentBusy)  
 Where equivalent:  
 Qualification: measure  
 Aggregate function: Min  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class:	DailyOLAP-HP 3PAR Disk Statistics
Description:	

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os

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---

Select equivalent: min(SD\_SE\_3PAR\_Disk\_Stats.MINPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete an I/O operation in milliseconds  
Select equivalent: max(SD\_SE\_3PAR\_Disk\_Stats.MAXAvgIOResponseTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average I/O Response Time (ms)  
Type: Number  
Description: Minimum of Average time to complete an I/O operation in milliseconds  
Select equivalent: min(SD\_SE\_3PAR\_Disk\_Stats.MINAvgIOResponseTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average I/O Response Time (ms)  
Type: Number  
Description: Average of Average time to

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	o complete an I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGAvgIOResponseTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average of Average Queue Depth
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Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXAvgReadSize)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINAvgReadSize)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read

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---

Select equivalent: avg(SD\_SE\_3PAR\_Disk\_Stats.AVGAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: max(SD\_SE\_3PAR\_Disk\_Stats.MAXAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)  
Type: Number  
Description: Minimum of Average write size of I/Os written  
Select equivalent: min(SD\_SE\_3PAR\_Disk\_Stats.MINAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: avg(SD\_SE\_3PAR\_Disk\_Stats.AVGAvgWriteSize)  
Where equivalent:

Qualification: measure

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---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Maximum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read requests per second  
Select equivalent: max(SD\_SE\_3PAR\_Disk\_Stats.MAXReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read requests per second  
Select equivalent: min(SD\_SE\_3PAR\_Disk\_Stats.MINReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of read requests per second  
Select equivalent: avg(SD\_SE\_3PAR\_Disk\_Stats.AVGReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Maximum Total Data Rate (Bytes/Sec)

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Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per seco

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	nd
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXWriteRate)

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---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXAvgReadIORespTime)

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---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average Write I/O Response Time (ms)
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Type:	ime (ms) Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_Disk_Stats.AVGAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average

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List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SD_SE_3PAR_Disk_Stats.MAXAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SD_SE_3PAR_Disk_Stats.MINAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HP 3PAR FC Port Performance Statistics
Description:	HP 3PAR FC Port Performance Statistics

No objects

Class:	HP3PARStoragePort(HP 3PAR FC Port Statistics)
Description:	

Object:	SOM Source Name
Type:	Character
Description:	Name of the source SOM server
Select equivalent:	K_SE_StorageSystem.SEiSourceName

---

Where equivalent:

Qualification: dimension  
List of values: 0t2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Tenant Name  
Type: Character  
Description: Tenant Name  
Select equivalent: K\_SE\_StorageSystem.TenantName  
Where equivalent:

Qualification: dimension  
List of values: 0t3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Vendor  
Type: Character  
Description: Storage system vendor name  
Select equivalent: K\_SE\_StorageSystem.Vendor  
Where equivalent:

Qualification: dimension  
List of values: 0t4, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Model  
Type: Character  
Description: Storage System Model Number  
Select equivalent: K\_SE\_StorageSystem.Model  
Where equivalent:

Qualification: dimension  
List of values: 0t5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	

Qualification:	dimension
List of values:	0t6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0t7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0t8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object: Storage System IP Address  
Type: Character  
Description: IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.IPAddress  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0t9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System DNS  
Type: Character  
Description: DNS name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DNSName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0ta, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System WWN  
Type: Character  
Description: World Wide Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tb, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System SerialNumber  
Type: Character  
Description: Serial Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.SerialNumber

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tc, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Status  
Type: Character  
Description: Operational status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0td, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Reset Capability?  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0te, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

---

List of values:	0tf, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Cache Block Size
Type:	Number
Description:	Cache Block Size
Select equivalent:	K_SE_StorageSystem.CacheBlockSize
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tg, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Has Compliance Mode?
Type:	Character
Description:	Has Compliance Mode (flag)
Select equivalent:	K_SE_StorageSystem.HasComplianceMode
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0th, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Domain
Type:	Character
Description:	Domain of the Storage System
Select equivalent:	K_SE_StorageSystem.Domain
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ti, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Over Subscribed Capacity
Type:	Character
Description:	Over Subscribed Capacity
Select equivalent:	K_SE_StorageSystem.OverSubscribedCapacity
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tj, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Requested Capacity
Type:	Character
Description:	Requested Capacity
Select equivalent:	K_SE_StorageSystem.RequestedCapacity
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tk, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Is Manageable?
Type:	Character
Description:	Is Manageable
Select equivalent:	K_SE_StorageSystem.IsManageable
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tl, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Volume Name Length
Type:	Character

---



---

Description: Maximum allowed length for Volume Names  
Select equivalent: K\_SE\_StorageSystem.MaxVolumeNameLength  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tm, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication IP  
Type: Character  
Description: Replication IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationIP  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tn, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication Pools  
Type: Character  
Description: Replication Pools of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationPools  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0to, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication Status  
Type: Character  
Description: Replication Status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tp, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Storage On Access</b>
Type:	Character
Description:	Storage On Access (flag)
Select equivalent:	K_SE_StorageSystem.StorageOnAccess
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tq, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Business Cost</b>
Type:	Number
Description:	Business Cost of the Storage System
Select equivalent:	K_SE_StorageSystem.BusinessCost
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tr, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>DKC Microcode Version</b>
Type:	Character
Description:	DKC Microcode Version of the Storage System
Select equivalent:	K_SE_StorageSystem.DKCMicrocodeVersion
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ts, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Family  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tt, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hardware Version  
Type: Character  
Description: Hardware Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.HardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tu, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Identifying Descriptions  
Type: Character  
Description: Identifying Descriptions for the Storage System  
Select equivalent: K\_SE\_StorageSystem.IdentifyingDescriptions  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0tv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Other Identifying Info
Type:	Character
Description:	Other Identifying Info for the Storage System
Select equivalent:	K_SE_StorageSystem.OtherIdentifyingInfo
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tw, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Provider Tag
Type:	Character
Description:	Provider Tag of the Storage System
Select equivalent:	K_SE_StorageSystem.ProviderTag
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0tx, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent Name
Type:	Character
Description:	Parent Name for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0ty, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent UUID
Type:	Character
Description:	Parent UUID for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentUUID

---

Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0u0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Power Management**  
Type: Character  
Description: Power Management  
Select equivalent: K\_SE\_StorageSystem.PowerManagement  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0u1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Roles**  
Type: Character  
Description: Roles of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0u2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Primary Owner Name**  
Type: Character  
Description: Primary Owner Name of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name

---

List of values:	0u3, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Primary Owner Contact
Type:	Character
Description:	Primary Owner Contact of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerContact
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0u4, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Last Contacted Timestamp
Type:	Date
Description:	Shows the time stamp of when the storage system was last contacted
Select equivalent:	K_SE_StorageSystem.LastContactedTimestamp
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0u5, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Management URL
Type:	Character
Description:	Management URL of the Storage System
Select equivalent:	K_SE_StorageSystem.ManagementURL
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	0u6, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0u7, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Object Type  
Type: Character  
Description: Object Type  
Select equivalent: K\_SE\_StorageSystem.ObjectType  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 0u8, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Name  
Type: Character  
Description: Name of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.SANProcessorName  
Where equivalent:

Qualification: dimension  
List of values: 0u9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor Vendor

---

Type:	Character
Description:	Vendor Name of Block System Processor
Select equivalent:	K_SE_Storage_Processor.Vendor
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ua, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Description
Type:	Character
Description:	Description of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.Description
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ub, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	IP Address
Type:	Character
Description:	IP Address of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.IPAddress
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0uc, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	DNS
Type:	Character
Description:	DNS name of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.DNSName
Where equivalent:	

---



---

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ud, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	WWN
Type:	Character
Description:	World Wide Name of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.WWN
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ue, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Processor Model
Type:	Character
Description:	Model name of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.Model
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0uf, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage Processor Power Management
Type:	Character
Description:	Indicates whether Power management is supported or not on the Block System Processor
Select equivalent:	K_SE_Storage_Processor.PowerManagement
Where equivalent:	

---

---

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ug, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Serial Number</b>
Type:	Character
Description:	Serial Number of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.SerialNumber
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0uh, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Version</b>
Type:	Character
Description:	Version of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.Version
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0ui, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Processor Status</b>
Type:	Character
Description:	Status of the Block System Processor
Select equivalent:	K_SE_Storage_Processor.ProcessorStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Processor Name
List of values:	0uj, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Reset Capability**  
Type: Character  
Description: Reset Capability of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.ResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0uk, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Block Processor Roles**  
Type: Character  
Description: Roles of the Block System Processor  
Select equivalent: K\_SE\_Storage\_Processor.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Processor Name  
List of values: 0ul, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Port Name**  
Type: Character  
Description: Block system port name  
Select equivalent: K\_SE\_Storage\_Port.PortName  
Where equivalent:

Qualification: dimension  
List of values: 0um, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Block Port Description**

---

Type: Character  
Description: Block system port description  
Select equivalent: K\_SE\_Storage\_Port.Description  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0un, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Port WWN  
Type: Character  
Description: World Wide Name of the Block system port  
Select equivalent: K\_SE\_Storage\_Port.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0uo, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Connected To WWN  
Type: Character  
Description: Which WWN is this port connected to?  
Select equivalent: K\_SE\_Storage\_Port.ConnectedToWWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0up, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Port State  
Type: Character  
Description: Port State  
Select equivalent: K\_SE\_Storage\_Port.PortState  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0uq, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Port Status</b>
Type:	Character
Description:	Port Status
Select equivalent:	K_SE_Storage_Port.PortStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0ur, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Physical State</b>
Type:	Character
Description:	Physical State
Select equivalent:	K_SE_Storage_Port.PhysicalState
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0us, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Port Speed in Gb/s</b>
Type:	Number
Description:	Port Speed in Gb/s
Select equivalent:	K_SE_Storage_Port.PortSpeed
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0ut, editable, manual refresh, not exportable

---

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Max Speed in Gb/s  
Type: Number  
Description: Max Speed in Gb/s  
Select equivalent: K\_SE\_Storage\_Port.MaxSpeed  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0uu, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Port Number  
Type: Number  
Description: Port Number  
Select equivalent: K\_SE\_Storage\_Port.PortNumber  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0uv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: SCSIPort  
Type: Number  
Description: SCSI Port  
Select equivalent: K\_SE\_Storage\_Port.SCSIPort  
Where equivalent:

Qualification: detail  
Associated dimension name: Port Name  
List of values: 0uw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Connected to Node WWN
Type:	Character
Description:	Which node WWN is the port connected to?
Select equivalent:	K_SE_Storage_Port.ConnectedToNodeWWN
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0ux, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Port Type
Type:	Character
Description:	Port Type
Select equivalent:	K_SE_Storage_Port.PortType
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0uy, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Link Technology
Type:	Character
Description:	Link Technology
Select equivalent:	K_SE_Storage_Port.LinkTechnology
Where equivalent:	

Qualification:	detail
Associated dimension name:	Port Name
List of values:	0v0, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System UUID
Type:	Character
Description:	UUID of the Storage System

---

Select equivalent: K\_SE\_StorageSystem.UUID  
Where equivalent:

Qualification: dimension  
List of values: 0v1, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Processor UUID  
Type: Character  
Description: UUID of the Block Processor  
Select equivalent: K\_SE\_Storage\_Processor.SANProcessorUUID  
Where equivalent:

Qualification: dimension  
List of values: 0v2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Port UUID  
Type: Character  
Description: UUID of the Block System Port  
Select equivalent: K\_SE\_Storage\_Port.PortUUID  
Where equivalent:

Qualification: dimension  
List of values: 0v3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR FC Port Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension



---

List of values:	0v4, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Month
Type:	Character
Description:	Month Name first Three Characters
Select equivalent:	(SUBSTR(DATETIME.TIME_MONTH_NAME,1,3))
Where equivalent:	

Qualification:	dimension
List of values:	0v5, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Month Name
Type:	Character
Description:	Month Name
Select equivalent:	DATETIME.TIME_MONTH_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Month
List of values:	0v6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day
Type:	Number
Description:	Day
Select equivalent:	DATETIME.TIME_DAY_MONTH_NUMBER
Where equivalent:	

Qualification:	dimension
List of values:	0v7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Day Name
Type:	Character
Description:	Day Name
Select equivalent:	DATETIME.TIME_DAY_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Day
List of values:	0v8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour
Type:	Number
Description:	Hour
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	

Qualification:	dimension
List of values:	0v9, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Id
Type:	Number
Description:	Hour Id
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	

Qualification:	detail
Associated dimension name:	Hour
List of values:	0va, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Hour Description
Type:	Character
Description:	Time Hour Description
Select equivalent:	DATETIME.TIME_HOUR_DESCRIPTION
Where equivalent:	

---

---

Qualification:	detail
Associated dimension name:	Hour
List of values:	0vb, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date
Type:	Date
Description:	Full Date
Select equivalent:	DATETIME.TIME_FULL_DATE
Where equivalent:	

Qualification:	dimension
List of values:	0vc, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Holiday
Type:	Character
Description:	Time Is Holiday
Select equivalent:	DATETIME.TIME_IS_HOLIDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	0vd, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Weekday
Type:	Character
Description:	Time Is Weekday
Select equivalent:	DATETIME.TIME_IS_WEEKDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	0ve, editable, manual refresh, not exportable
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Boundary
Type:	Number
Description:	Hour Boundary
Select equivalent:	DATETIME.HOUR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0vf, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Day Boundary
Type:	Number
Description:	Day Boundary
Select equivalent:	DATETIME.DAY_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0vg, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Week Boundary
Type:	Number
Description:	Week Boundary
Select equivalent:	DATETIME.WEEK_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	0vh, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Month Boundary
Type:	Number
Description:	Month Boundary

---

Select equivalent: DATETIME.MONTH\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0vi, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Year Boundary  
Type: Number  
Description: Year Boundary  
Select equivalent: DATETIME.YEAR\_BOUNDARY  
Where equivalent:

Qualification: dimension  
List of values: 0vj, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

Class:	Raw HP 3PAR FC Port Statistics
Description:	

Object: % Read I/Os  
Type: Number  
Description: Ratio of read I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_FCPort\_Stats.PctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: % Write I/Os  
Type: Number  
Description: Ratio of write I/Os to total I/Os  
Select equivalent: SR\_SE\_3PAR\_FCPort\_Stats.PctWriteIOs  
Where equivalent:

---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Size (Bytes)
Type:	Number
Description:	Average read size of I/Os read
Select equivalent:	SR_SE_3PAR_FCPort_Stats.AvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_FCPort_Stats.AvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Read throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_FCPort_Stats.ReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read requests per second
Select equivalent:	SR_SE_3PAR_FCPort_Stats.ReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Rate data is transmitted between devices
Select equivalent:	SR_SE_3PAR_FCPort_Stats.TotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read and write I/O operations given in re quests per second
Select equivalent:	SR_SE_3PAR_FCPort_Stats.TotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Write throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_FCPort_Stats.WriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_FCPort_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Delta read I/Os (Req/Sec)
Select equivalent:	SR_SE_3PAR_FCPort_Stats.DeltaReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Delta Write I/Os (Req/Sec)
Type:	Number

---



Description: Delta write I/Os (Req/Sec)  
Select equivalent: SR\_SE\_3PAR\_FCPort\_Stats.DeltaWriteIOs  
Where equivalent:  
  
Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly HP 3PAR FC Port Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MINPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os

---

Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MAXPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MINPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MAXAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MINAvgReadSize  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.AVGAvgWriteSize  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Read throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MAXReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Read throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MINReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Data Rate (Bytes/Sec)

---

---

Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGReadRate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGTotalIORate

---

Where equivalent:

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average



---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MAXDeltaReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.MINDeltaReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_FCPort_Stats.AVGDeltaReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number

---

---

Description: Maximum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MAXDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.MINDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Average Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_FCPort\_Stats.AVGDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily HP 3PAR FC Port Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os

---

Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MINPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MAXPctWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MINPctWriteIOs  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MAXAvgWriteSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)  
Type: Number  
Description: Minimum of Average write size of I/Os written  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MINAvgWriteSize  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.AVGAvgWriteSize  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Data Rate (Bytes/Sec)

---

---

Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXReadRate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.MAXDeltaReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read I/Os (Req/Sec)
Type:	Number

---

Description: Minimum Delta read I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MINDeltaReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Read I/Os (Req/Sec)  
Type: Number  
Description: Average Delta read I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.AVGDeltaReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta write I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MAXDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta write I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_FCPort\_Stats.MINDeltaWriteIOs  
Where equivalent:

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_FCPort_Stats.AVGDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HourlyOLAP-HP 3PAR FC Port Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
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Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXPctWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINPctWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: min(SH\_SE\_3PAR\_FCPort\_Stats.MINAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)  
Type: Number  
Description: Average of Average read size of I/Os read  
Select equivalent: avg(SH\_SE\_3PAR\_FCPort\_Stats.AVGAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: max(SH\_SE\_3PAR\_FCPort\_Stats.MAXAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)

---



---

Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINReadDataRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Average Read I/O Rate (Req/Sec)</b>
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Total Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum Total Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average Total I/O Rate (Req/Sec)  
Type: Number  
Description: Average of Number of read  
and write I/O operations  
given in requests per second  
Select equivalent: avg(SH\_SE\_3PAR\_FCPort\_Stats.AVGTotalIORate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: max(SH\_SE\_3PAR\_FCPort\_Stats.MAXWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: min(SH\_SE\_3PAR\_FCPort\_Stats.MINWriteDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number

---

---

Description:	Average Number of write requests per second
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXDeltaReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINDeltaReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGDeltaReadIOs)
Where equivalent:	

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_FCPort_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_FCPort_Stats.MINDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_FCPort_Stats.AVGDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---



Can be used: in result, in condition, in sort  
Object status: show

Class:	DailyOLAP-HP 3PAR FC Port Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: max(SD\_SE\_3PAR\_FCPort\_Stats.MAXPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: min(SD\_SE\_3PAR\_FCPort\_Stats.MINPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: max(SD\_SE\_3PAR\_FCPort\_Stats.MAXPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort

---

Object status: show

---

Object: Minimum % Write I/Os  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: min(SD\_SE\_3PAR\_FCPort\_Stats.MINPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: max(SD\_SE\_3PAR\_FCPort\_Stats.MAXAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: min(SD\_SE\_3PAR\_FCPort\_Stats.MINAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)

---

---

Type: Number  
Description: Average of Average read size of I/Os read  
Select equivalent: avg(SD\_SE\_3PAR\_FCPort\_Stats.AVGAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: max(SD\_SE\_3PAR\_FCPort\_Stats.MAXAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)  
Type: Number  
Description: Minimum of Average write size of I/Os written  
Select equivalent: min(SD\_SE\_3PAR\_FCPort\_Stats.MINAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Write Size (Bytes)  
Type: Number  
Description: Average of Average write size of I/Os written  
Select equivalent: avg(SD\_SE\_3PAR\_FCPort\_Stats.AVGAvgWriteSize)  
Where equivalent:

---

---

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum of Number of read

---

	and write I/O operations given in requests per second
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum of Number of read and write I/O operations given in requests per second
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average of Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGTotalIORate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number

---



---

Description:	Maximum Number of write requests per second
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXDeltaReadIOs)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read I/Os (Req/Sec)
Select equivalent:	min(SD_SE_3PAR_FCPort_Stats.MINDeltaReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read I/Os (Req/Sec)
Select equivalent:	avg(SD_SE_3PAR_FCPort_Stats.AVGDeltaReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_FCPort_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
 Type: Number  
 Description: Minimum Delta write I/Os (Req/Sec)  
 Select equivalent: min(SD\_SE\_3PAR\_FCPort\_Stats.MINDeltaWriteIOs)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Min  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
 Type: Number  
 Description: Average Delta write I/Os (Req/Sec)  
 Select equivalent: avg(SD\_SE\_3PAR\_FCPort\_Stats.AVGDeltaWriteIOs)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Average  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class:	HP 3PAR AVG Storage System Volume Performance Statistics
Description:	HP 3PAR Aggregated Volume Statistics (Array Level)

No objects

Class:	HP3PARStorageSystem( HP 3PAR AVG Storage System Volume Statistics)
Description:	

Object: SOM Source Name

---

Type:	Character
Description:	Name of the source SOM server
Select equivalent:	K_SE_StorageSystem.SEiSourceName
Where equivalent:	
Qualification:	dimension
List of values:	116, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Tenant Name
Type:	Character
Description:	Tenant Name
Select equivalent:	K_SE_StorageSystem.TenantName
Where equivalent:	
Qualification:	dimension
List of values:	117, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Vendor
Type:	Character
Description:	Storage system vendor name
Select equivalent:	K_SE_StorageSystem.Vendor
Where equivalent:	
Qualification:	dimension
List of values:	118, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Model
Type:	Character
Description:	Storage System Model Number
Select equivalent:	K_SE_StorageSystem.Model
Where equivalent:	
Qualification:	dimension
List of values:	119, editable, manual refresh, not exportable

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Name
Type:	Character
Description:	Name of the Storage System
Select equivalent:	K_SE_StorageSystem.StorageSystemName
Where equivalent:	

Qualification:	dimension
List of values:	11a, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Description
Type:	Character
Description:	Description about Storage System
Select equivalent:	K_SE_StorageSystem.Description
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11b, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System Discovery Status
Type:	Character
Description:	The discovery status of the storage system such as CREATED, CONTACTED, MISSING, GENERIC
Select equivalent:	K_SE_StorageSystem.DiscoveryStatus
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11c, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Storage System IP Address  
Type: Character  
Description: IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.IPAddress  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11d, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System DNS  
Type: Character  
Description: DNS name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DNSName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System WWN  
Type: Character  
Description: World Wide Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.WWN  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System SerialNumber

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Type: Character  
Description: Serial Number of the Storage System  
Select equivalent: K\_SE\_StorageSystem.SerialNumber  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11g, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Status  
Type: Character  
Description: Operational status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11h, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Reset Capability?  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11i, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11j, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Cache Block Size
Type:	Number
Description:	Cache Block Size
Select equivalent:	K_SE_StorageSystem.CacheBlockSize
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11k, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Has Compliance Mode?
Type:	Character
Description:	Has Compliance Mode (flag)
Select equivalent:	K_SE_StorageSystem.HasComplianceMode
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11l, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Domain
Type:	Character
Description:	Domain of the Storage System
Select equivalent:	K_SE_StorageSystem.Domain
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11m, editable, manual refresh, not exportable

---



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Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11n, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Requested Capacity  
Type: Character  
Description: Requested Capacity  
Select equivalent: K\_SE\_StorageSystem.RequestedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11o, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Is Manageable?  
Type: Character  
Description: Is Manageable  
Select equivalent: K\_SE\_StorageSystem.IsManageable  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11p, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Maximum Volume Name Length
Type:	Character
Description:	Maximum allowed length for Volume Names
Select equivalent:	K_SE_StorageSystem.MaxVolumeNameLength
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11q, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication IP
Type:	Character
Description:	Replication IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationIP
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11r, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Pools
Type:	Character
Description:	Replication Pools of the Storage System
Select equivalent:	K_SE_StorageSystem.ReplicationPools
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	11s, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Replication Status
Type:	Character
Description:	Replication Status of the Storage System

---

---

Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11t, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage On Access  
Type: Character  
Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11u, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Business Cost  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11v, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: DKC Microcode Version  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail

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---

Associated dimension name: Storage System Name  
List of values: 11w, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Family  
Type: Character  
Description: Family of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Family  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11x, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hardware Version  
Type: Character  
Description: Hardware Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.HardwareVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 11y, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Identifying Descriptions  
Type: Character  
Description: Identifying Descriptions for the Storage System  
Select equivalent: K\_SE\_StorageSystem.IdentifyingDescriptions  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 120, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

---

Object status: show

---

Object: Other Identifying Info  
Type: Character  
Description: Other Identifying Info for the Storage System  
Select equivalent: K\_SE\_StorageSystem.OtherIdentifyingInfo  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 121, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Provider Tag  
Type: Character  
Description: Provider Tag of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ProviderTag  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 122, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Parent Name  
Type: Character  
Description: Parent Name for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 123, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Parent UUID

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---

Type: Character  
Description: Parent UUID for a File System Node/Virtual Server  
Select equivalent: K\_SE\_StorageSystem.ParentUUID  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 124, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Power Management  
Type: Character  
Description: Power Management  
Select equivalent: K\_SE\_StorageSystem.PowerManagement  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 125, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Roles  
Type: Character  
Description: Roles of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 126, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Primary Owner Name  
Type: Character  
Description: Primary Owner Name of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerName  
Where equivalent:

---

---

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	127, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Primary Owner Contact
Type:	Character
Description:	Primary Owner Contact of Storage System
Select equivalent:	K_SE_StorageSystem.PrimaryOwnerContact
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	128, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Last Contacted Timestamp
Type:	Date
Description:	Shows the time stamp of when the storage system was last contacted
Select equivalent:	K_SE_StorageSystem.LastContactedTimestamp
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	129, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Management URL
Type:	Character
Description:	Management URL of the Storage System
Select equivalent:	K_SE_StorageSystem.ManagementURL
Where equivalent:	

Qualification:	detail
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---

Associated dimension name: Storage System Name  
List of values: 12a, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Custom Name  
Type: Character  
Description: Custom Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.CustomName  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 12b, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Object Type  
Type: Character  
Description: Object Type  
Select equivalent: K\_SE\_StorageSystem.ObjectType  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 12c, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System UUID  
Type: Character  
Description: UUID of the Storage System  
Select equivalent: K\_SE\_StorageSystem.UUID  
Where equivalent:

Qualification: dimension  
List of values: 12d, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---



Class:	DATETIME(HP 3PAR AVG Storage System Volum e Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 12e, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month  
Type: Character  
Description: Month Name first Three Characters  
Select equivalent: (SUBSTR(DATETIME.TIME\_MONTH\_NAME,1,3))  
Where equivalent:

Qualification: dimension  
List of values: 12f, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Month Name  
Type: Character  
Description: Month Name  
Select equivalent: DATETIME.TIME\_MONTH\_NAME  
Where equivalent:

Qualification: detail  
Associated dimension name: Month  
List of values: 12g, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Day
Type:	Number
Description:	Day
Select equivalent:	DATETIME.TIME_DAY_MONTH_NUMBER
Where equivalent:	
Qualification:	dimension
List of values:	12h, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day Name
Type:	Character
Description:	Day Name
Select equivalent:	DATETIME.TIME_DAY_NAME
Where equivalent:	
Qualification:	detail
Associated dimension name:	Day
List of values:	12i, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour
Type:	Number
Description:	Hour
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	
Qualification:	dimension
List of values:	12j, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Id
Type:	Number
Description:	Hour Id
Select equivalent:	DATETIME.TIME_HOUR_ID
Where equivalent:	

---

Qualification: detail  
Associated dimension name: Hour  
List of values: 12k, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Hour Description  
Type: Character  
Description: Time Hour Description  
Select equivalent: DATETIME.TIME\_HOUR\_DESCRIPTION  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 12l, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Full Date  
Type: Date  
Description: Full Date  
Select equivalent: DATETIME.TIME\_FULL\_DATE  
Where equivalent:

Qualification: dimension  
List of values: 12m, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Is Holiday  
Type: Character  
Description: Time Is Holiday  
Select equivalent: DATETIME.TIME\_IS\_HOLIDAY  
Where equivalent:

Qualification: detail  
Associated dimension name: Full Date  
List of values: 12n, editable, manual refresh, not exportable  
Security access level: 0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Weekday
Type:	Character
Description:	Time Is Weekday
Select equivalent:	DATETIME.TIME_IS_WEEKDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	12o, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Boundary
Type:	Number
Description:	Hour Boundary
Select equivalent:	DATETIME.HOUR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	12p, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Day Boundary
Type:	Number
Description:	Day Boundary
Select equivalent:	DATETIME.DAY_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	12q, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Week Boundary
Type:	Number

---

---

Description:	Week Boundary
Select equivalent:	DATETIME.WEEK_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	12r, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Month Boundary
Type:	Number
Description:	Month Boundary
Select equivalent:	DATETIME.MONTH_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	12s, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Year Boundary
Type:	Number
Description:	Year Boundary
Select equivalent:	DATETIME.YEAR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	12t, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

Class:	Raw HP 3PAR AVG Storage System Volume Statistics
Description:	

Object:	% Read I/Os
Type:	Number
Description:	Ratio of read I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.PctReadIOs
Where equivalent:	

---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Write I/Os
Type:	Number
Description:	Ratio of write I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.PctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average I/O Response Time (ms)
Type:	Number
Description:	Average time to complete an I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average % Busy
Type:	Number
Description:	Average time the storage system was busy
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Queue Depth
Type:	Number
Description:	Average number of pending read and write I/O operations
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a read I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a write I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average Read Size (Bytes)
Type:	Number
Description:	Average read size of I/Os read
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.AvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Hit Rate
Type:	Number
Description:	Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.PctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Data Rate (Bytes/Sec)
Type:	Number

---



---

Description: Read throughput rate (Bytes per second)  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.ReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Read Hit Rate (Req/Sec)  
Type: Number  
Description: Read cache hit rate (requests per second)  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.ReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Read I/O Rate (Req/Sec)  
Type: Number  
Description: Number of read requests per second  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.ReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Rate data is transmitted between devices  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.TotalDataRate  
Where equivalent:

---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read and write I/O operations given in re quests per second
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.TotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Write throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.WriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_SSAGVol_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None

List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Delta read hit I/Os (Req/Sec)  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.DeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Delta write I/Os (Req/Sec)  
Select equivalent: SR\_SE\_3PAR\_SSAGVol\_Stats.DeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly HP 3PAR AVG Storage System Volume Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure

---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete an I/O operation in milliseconds  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average I/O Response Time (ms)  
Type: Number  
Description: Minimum of Average time to complete an I/O operation in milliseconds  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average I/O Response Time (ms)  
Type: Number  
Description: Average of Average time to complete an I/O operation in milliseconds  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Minimum of Average Queue Depth  
Type: Number  
Description: Minimum of Average number  
of pending read and write  
I/O operations  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Queue Depth  
Type: Number  
Description: Average of Average number  
of pending read and write  
I/O operations  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average  
Read I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to  
complete a read I/O operation in milliseconds  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgReadIORespTime  
Where equivalent:

Qualification: measure

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---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to

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	o complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

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---

Object status: show

---

Object: Maximum of Average Read Size (Bytes)  
Type: Number  
Description: Maximum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)  
Type: Number  
Description: Average of Average read size of I/Os read  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgReadSize  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)

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Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati

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---

Select equivalent:	ons SH_SE_3PAR_SSAGVol_Stats.MAXPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)

---

---

Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Read throughput rate (Bytes per second)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Maximum Read cache hit rate (requests per second)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Minimum Read cache hit rate (requests per second)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINReadHitRate  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Average Read I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of read requests per second  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate data is transmitted between devices  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINTotalDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)

---

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Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
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---

Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXWriteDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINWriteDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)

---

---

Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MAXDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.MINDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_SSAGVol_Stats.AVGDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

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---

Object status: show

---

Object: Maximum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MAXDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.MINDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Average Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SSAGVol\_Stats.AVGDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily HP 3PAR AVG Storage System Volume Statistics
Description:	

---

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXPctReadI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINPctReadI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Percentage WriteI/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Minimum Percentage WriteI/Os
Type:	Number

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Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number

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---

Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAVGIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgPercentBusy
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgPercentBusy
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write

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Select equivalent:	e I/O operations SD_SE_3PAR_SSAGVol_Stats.MAXAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average Read I/O Response Ti
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Type:	me (ms) Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

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Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to

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	o complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgReadSize
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgReadSize
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAvgReadSize
Where equivalent:	

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Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Hit Rate</b>
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Hit Rate</b>
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Read Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
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Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Minimum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Minimum Read cache hit rate (requests per second)  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.MINReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Hit Rate (Req/Sec)  
Type: Number  
Description: Average Read cache hit rate (requests per second)  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.AVGReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read requests per second  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.MAXReadRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)

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Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINTotalDataRate
Where equivalent:	

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Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINTotalIORate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
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Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta read hit I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.MAXDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta read hit I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_SSAGVol\_Stats.MINDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Read Hit I/Os (Req/Sec)

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---

Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MAXDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.MINDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SSAGVol_Stats.AVGDeltaWriteIOs
Where equivalent:	

---

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: HourlyOLAP-HP 3PAR A  
VG Storage System Volume Statistics  
Description:

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_SSAGVol\_Stats.MAXPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: min(SH\_SE\_3PAR\_SSAGVol\_Stats.MINPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Percentage WriteIOs  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: max(SH\_SE\_3PAR\_SSAGVol\_Stats.MAXPctWriteIOs)

Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Percentage WriteIOs  
Type: Number  
Description: Minimum Ratio of write I/Os to total I/Os  
Select equivalent: min(SH\_SE\_3PAR\_SSAGVol\_Stats.MINPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete an I/O operation in milliseconds  
Select equivalent: max(SH\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgIOResponseTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average I/O Response Time (ms)  
Type: Number  
Description: Minimum of Average time to complete an I/O operation in milliseconds  
Select equivalent: min(SH\_SE\_3PAR\_SSAGVol\_Stats.MINAvgIOResponseTime)

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average I/O Response Time (ms)  
Type: Number  
Description: Average of Average time to complete an I/O operation in milliseconds  
Select equivalent: avg(SH\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgIOResponseTime)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average % Busy  
Type: Number  
Description: Maximum of Average time the storage system was busy  
Select equivalent: max(SH\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgPercentBusy)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average % Busy  
Type: Number  
Description: Minimum of Average time the storage system was busy  
Select equivalent: min(SH\_SE\_3PAR\_SSAGVol\_Stats.MINAvgPercentBusy)  
Where equivalent:



---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGAvgQueueDepth)

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXReadRate)

---



Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read requests per second  
Select equivalent: min(SH\_SE\_3PAR\_SSAGVol\_Stats.MINReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of read requests per second  
Select equivalent: avg(SH\_SE\_3PAR\_SSAGVol\_Stats.AVGReadRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: max(SH\_SE\_3PAR\_SSAGVol\_Stats.MAXTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXDeltaReadHitI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINDeltaReadHitI/Os)

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_SSAGVol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_SSAGVol_Stats.MINDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_SSAGVol_Stats.AVGDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP-HP 3PAR AV G Storage System Volume Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
----------------	---------

---

Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXPctWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINPctWriteI/Os)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

---



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds

---

---

Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgWriteIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average
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---

	Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXAvgReadSize)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Minimum of Average Read Size (Bytes)  
Type: Number  
Description: Minimum of Average read size of I/Os read  
Select equivalent: min(SD\_SE\_3PAR\_SSAGVol\_Stats.MINAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read Size (Bytes)  
Type: Number  
Description: Average of Average read size of I/Os read  
Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgReadSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write Size (Bytes)  
Type: Number  
Description: Maximum of Average write size of I/Os written  
Select equivalent: max(SD\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgWriteSize)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum of Average Write Size (Bytes)

---

---

Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
Type:	Number

---

---

Description:	Minimum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINPctHitRate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXReadDataRate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINReadDataRate)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)

---



---

Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGReadDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Maximum Read cache hit rate (requests per second)  
Select equivalent: max(SD\_SE\_3PAR\_SSAGVol\_Stats.MAXReadHitRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Minimum Read cache hit rate (requests per second)  
Select equivalent: min(SD\_SE\_3PAR\_SSAGVol\_Stats.MINReadHitRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Hit Rate (Req/Sec)  
Type: Number  
Description: Average Read cache hit rate (requests per second)  
Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGReadHitRate)  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

---

Object status: show

---

Object: Maximum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Rate data is transmitted between devices  
Select equivalent: max(SD\_SE\_3PAR\_SSAGVol\_Stats.MAXTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Rate data is transmitted between devices  
Select equivalent: min(SD\_SE\_3PAR\_SSAGVol\_Stats.MINTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate data is transmitted between devices  
Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total I/O Rate (Req/Sec)

---

---

Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second

---

---

Select equivalent: max(SD\_SE\_3PAR\_SSAGVol\_Stats.MAXWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: min(SD\_SE\_3PAR\_SSAGVol\_Stats.MINWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta read hit I/Os (Req/Sec)  
Select equivalent: max(SD\_SE\_3PAR\_SSAGVol\_Stats.MAXDeltaReadHitIOs)  
Where equivalent:

Qualification: measure

---

---

Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	min(SD_SE_3PAR_SSAGVol_Stats.MINDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	avg(SD_SE_3PAR_SSAGVol_Stats.AVGDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_SSAGVol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta write I/Os (Req/Sec)  
Select equivalent: min(SD\_SE\_3PAR\_SSAGVol\_Stats.MINDeltaWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Average Delta write I/Os (Req/Sec)  
Select equivalent: avg(SD\_SE\_3PAR\_SSAGVol\_Stats.AVGDeltaWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	HP 3PAR AVG Storage Pool Volume Performance Statistics
Description:	HP 3PAR Aggregated Volume Statistics (Storage Pool Level)

No objects

Class:	HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)
Description:	

Object: SOM Source Name  
Type: Character  
Description: Name of the source SOM server



---

Select equivalent: K\_SE\_StorageSystem.SEiSourceName  
Where equivalent:

Qualification: dimension  
List of values: 19t, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Tenant Name  
Type: Character  
Description: Tenant Name  
Select equivalent: K\_SE\_StorageSystem.TenantName  
Where equivalent:

Qualification: dimension  
List of values: 19u, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Vendor  
Type: Character  
Description: Storage system vendor name  
Select equivalent: K\_SE\_StorageSystem.Vendor  
Where equivalent:

Qualification: dimension  
List of values: 19v, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Model  
Type: Character  
Description: Storage System Model Number  
Select equivalent: K\_SE\_StorageSystem.Model  
Where equivalent:

Qualification: dimension  
List of values: 19w, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

---

Object status: show

---

Object: Storage System Name  
Type: Character  
Description: Name of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemName  
Where equivalent:

Qualification: dimension  
List of values: 19x, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Description  
Type: Character  
Description: Description about Storage System  
Select equivalent: K\_SE\_StorageSystem.Description  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 19y, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Discovery Status  
Type: Character  
Description: The discovery status of the storage system such as  
CREATED, CONTACTED, MISSING, GENERIC  
Select equivalent: K\_SE\_StorageSystem.DiscoveryStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

---

Object:	Storage System IP Address
Type:	Character
Description:	IP Address of the Storage System
Select equivalent:	K_SE_StorageSystem.IPAddress
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1a1, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System DNS
Type:	Character
Description:	DNS name of the Storage System
Select equivalent:	K_SE_StorageSystem.DNSName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1a2, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System WWN
Type:	Character
Description:	World Wide Number of the Storage System
Select equivalent:	K_SE_StorageSystem.WWN
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1a3, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Storage System SerialNumber
Type:	Character
Description:	Serial Number of the Storage System

---

Select equivalent: K\_SE\_StorageSystem.SerialNumber  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a4, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage System Status  
Type: Character  
Description: Operational status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.StorageSystemStatus  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Reset Capability?  
Type: Character  
Description: Has Reset Capability (flag)  
Select equivalent: K\_SE\_StorageSystem.HasResetCapability  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a6, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Advanced Retention Management?  
Type: Character  
Description: Has Advanced Retention Management (flag)  
Select equivalent: K\_SE\_StorageSystem.HasAdvRetentionMgmt  
Where equivalent:

Qualification: detail

---

---

Associated dimension name: Storage System Name  
List of values: 1a7, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Cache Block Size  
Type: Number  
Description: Cache Block Size  
Select equivalent: K\_SE\_StorageSystem.CacheBlockSize  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a8, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Has Compliance Mode?  
Type: Character  
Description: Has Compliance Mode (flag)  
Select equivalent: K\_SE\_StorageSystem.HasComplianceMode  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1a9, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Domain  
Type: Character  
Description: Domain of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Domain  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1aa, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

Object status: show

---

Object: Over Subscribed Capacity  
Type: Character  
Description: Over Subscribed Capacity  
Select equivalent: K\_SE\_StorageSystem.OverSubscribedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ab, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Requested Capacity  
Type: Character  
Description: Requested Capacity  
Select equivalent: K\_SE\_StorageSystem.RequestedCapacity  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ac, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Is Manageable?  
Type: Character  
Description: Is Manageable  
Select equivalent: K\_SE\_StorageSystem.IsManageable  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ad, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Volume Name Length

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---

Type: Character  
Description: Maximum allowed length for Volume Names  
Select equivalent: K\_SE\_StorageSystem.MaxVolumeNameLength  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ae, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication IP  
Type: Character  
Description: Replication IP Address of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationIP  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1af, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication Pools  
Type: Character  
Description: Replication Pools of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationPools  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ag, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Replication Status  
Type: Character  
Description: Replication Status of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ReplicationStatus  
Where equivalent:

---

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ah, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Storage On Access**  
Type: Character  
Description: Storage On Access (flag)  
Select equivalent: K\_SE\_StorageSystem.StorageOnAccess  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ai, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **Business Cost**  
Type: Number  
Description: Business Cost of the Storage System  
Select equivalent: K\_SE\_StorageSystem.BusinessCost  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1aj, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: **DKC Microcode Version**  
Type: Character  
Description: DKC Microcode Version of the Storage System  
Select equivalent: K\_SE\_StorageSystem.DKCMicrocodeVersion  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ak, editable, manual refresh, not exportable

---



---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Family
Type:	Character
Description:	Family of the Storage System
Select equivalent:	K_SE_StorageSystem.Family
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1al, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hardware Version
Type:	Character
Description:	Hardware Version of the Storage System
Select equivalent:	K_SE_StorageSystem.HardwareVersion
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1am, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Identifying Descriptions
Type:	Character
Description:	Identifying Descriptions for the Storage System
Select equivalent:	K_SE_StorageSystem.IdentifyingDescriptions
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1an, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Other Identifying Info
Type:	Character
Description:	Other Identifying Info for the Storage System
Select equivalent:	K_SE_StorageSystem.OtherIdentifyingInfo
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1ao, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Provider Tag
Type:	Character
Description:	Provider Tag of the Storage System
Select equivalent:	K_SE_StorageSystem.ProviderTag
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1ap, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent Name
Type:	Character
Description:	Parent Name for a File System Node/Virtual Server
Select equivalent:	K_SE_StorageSystem.ParentName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1aq, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent UUID
Type:	Character
Description:	Parent UUID for a File System Node/Virtual Server

---

---

Select equivalent: K\_SE\_StorageSystem.ParentUUID  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ar, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Power Management  
Type: Character  
Description: Power Management  
Select equivalent: K\_SE\_StorageSystem.PowerManagement  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1as, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Roles  
Type: Character  
Description: Roles of the Storage System  
Select equivalent: K\_SE\_StorageSystem.Roles  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1at, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Primary Owner Name  
Type: Character  
Description: Primary Owner Name of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerName  
Where equivalent:

Qualification: detail

---

---

Associated dimension name: Storage System Name  
List of values: 1au, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Primary Owner Contact  
Type: Character  
Description: Primary Owner Contact of Storage System  
Select equivalent: K\_SE\_StorageSystem.PrimaryOwnerContact  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1av, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Last Contacted Timestamp  
Type: Date  
Description: Shows the time stamp of when the storage system was last contacted  
Select equivalent: K\_SE\_StorageSystem.LastContactedTimestamp  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1aw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Management URL  
Type: Character  
Description: Management URL of the Storage System  
Select equivalent: K\_SE\_StorageSystem.ManagementURL  
Where equivalent:

Qualification: detail  
Associated dimension name: Storage System Name  
List of values: 1ax, editable, manual refresh, not exportable

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Custom Name
Type:	Character
Description:	Custom Name of the Storage System
Select equivalent:	K_SE_StorageSystem.CustomName
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1ay, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Object Type
Type:	Character
Description:	Object Type
Select equivalent:	K_SE_StorageSystem.ObjectType
Where equivalent:	

Qualification:	detail
Associated dimension name:	Storage System Name
List of values:	1b0, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Block Pool Name
Type:	Character
Description:	Block Pool Name
Select equivalent:	K_SE_Storage_Pool.SANPoolName
Where equivalent:	

Qualification:	dimension
List of values:	1b1, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Block Pool Description
Type:	Character
Description:	Description about Block Pool
Select equivalent:	K_SE_Storage_Pool.SANPoolDescription
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1b2, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Parent Pool Name
Type:	Character
Description:	Parent Pool Name
Select equivalent:	K_SE_Storage_Pool.ParentPoolName
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1b3, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Available Space (GB)
Type:	Number
Description:	Total Available Space in GB
Select equivalent:	K_SE_Storage_Pool.TotalAvailableSpaceGB
Where equivalent:	
Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1b4, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Available Space (GiB)
Type:	Number
Description:	Total Available Space in GiB
Select equivalent:	K_SE_Storage_Pool.TotalAvailableSpaceGiB

---

Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1b5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Name  
Type: Character  
Description: Storage Capability Name  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1b6, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Common Name  
Type: Character  
Description: Storage Capability Common Name  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityCommonName  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1b7, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Storage Capability Description  
Type: Character  
Description: Storage Capability Description  
Select equivalent: K\_SE\_Storage\_Pool.StorageCapabilityDescription  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name

---

List of values:	1b8, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	No Single Point Of Failure
Type:	Character
Description:	No Single Point Of Failure
Select equivalent:	K_SE_Storage_Pool.NoSinglePtOfFailure
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1b9, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Default No Single Point Of Failure
Type:	Character
Description:	Default No Single Point Of Failure
Select equivalent:	K_SE_Storage_Pool.DefaultNoSinglePtOfFailure
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1ba, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Min Data Redundancy
Type:	Number
Description:	Minimum Data Redundancy
Select equivalent:	K_SE_Storage_Pool.MinDataRedundancy
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1bb, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object: Max Data Redundancy  
Type: Number  
Description: Maximum Data Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MaxDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bc, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Default Data Redundancy  
Type: Number  
Description: Default Data Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.DefaultDataRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bd, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Min Spindle Redundancy  
Type: Number  
Description: Minimum Spindle Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MinSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1be, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Max Spindle Redundancy  
Type: Number

---

Description: Maximum Spindle Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.MaxSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bf, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Default Spindle Redundancy  
Type: Number  
Description: Default Spindle Redundancy  
Select equivalent: K\_SE\_Storage\_Pool.DefaultSpindleRedundancy  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Min Delta Reservation  
Type: Number  
Description: Minimum Delta Reservation  
Select equivalent: K\_SE\_Storage\_Pool.MinDeltaReservation  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Max Delta Reservation  
Type: Number  
Description: Maximum Delta Reservation  
Select equivalent: K\_SE\_Storage\_Pool.MaxDeltaReservation  
Where equivalent:

---

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1bi, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Default Delta Reservation
Type:	Number
Description:	Default Delta Reservation
Select equivalent:	K_SE_Storage_Pool.DefaultDeltaReservation
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1bj, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Space Limit (GB)
Type:	Number
Description:	Space Limit in GB
Select equivalent:	K_SE_Storage_Pool.SpaceLimitGB
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1bk, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Space Limit (GiB)
Type:	Number
Description:	Space Limit in GiB
Select equivalent:	K_SE_Storage_Pool.SpaceLimitGiB
Where equivalent:	

Qualification:	detail
Associated dimension name:	Block Pool Name
List of values:	1bl, editable, manual refresh, not exportable
Security access level:	0

---

Can be used: in result, in condition, in sort  
Object status: show

---

Object: Space Limit Determination  
Type: Number  
Description: Space Limit Determination  
Select equivalent: K\_SE\_Storage\_Pool.SpaceLimitDetermination  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bm, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Composition  
Type: Character  
Description: Shows type of pool like Internal, External, Hybrid ....  
Select equivalent: K\_SE\_Storage\_Pool.Composition  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bn, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Pool Type  
Type: Character  
Description: Block Pool type - Primordial, Concrete, Open, Mainframe, Snapshot, Reserved, Parent concrete ...  
Select equivalent: K\_SE\_Storage\_Pool.SANPoolType  
Where equivalent:

Qualification: detail  
Associated dimension name: Block Pool Name  
List of values: 1bo, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort

---

Object status: show

---

Object: Storage System UUID  
Type: Character  
Description: UUID of the Storage System  
Select equivalent: K\_SE\_StorageSystem.UUID  
Where equivalent:

Qualification: dimension  
List of values: 1bp, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Block Pool UUID  
Type: Character  
Description: UUID of the Block Pool  
Select equivalent: K\_SE\_Storage\_Pool.SANPoolUUID  
Where equivalent:

Qualification: dimension  
List of values: 1bp, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DATETIME(HP 3PAR AVG Storage Pool Volume Statistics)
Description:	

Object: Year  
Type: Number  
Description: Year  
Select equivalent: DATETIME.TIME\_YEAR\_NUMBER  
Where equivalent:

Qualification: dimension  
List of values: 1br, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Month
Type:	Character
Description:	Month Name first Three Characters
Select equivalent:	(SUBSTR(DATETIME.TIME_MONTH_NAME,1,3))
Where equivalent:	

Qualification:	dimension
List of values:	1bs, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Month Name
Type:	Character
Description:	Month Name
Select equivalent:	DATETIME.TIME_MONTH_NAME
Where equivalent:	

Qualification:	detail
Associated dimension name:	Month
List of values:	1bt, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day
Type:	Number
Description:	Day
Select equivalent:	DATETIME.TIME_DAY_MONTH_NUMBER
Where equivalent:	

Qualification:	dimension
List of values:	1bu, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Day Name
Type:	Character
Description:	Day Name
Select equivalent:	DATETIME.TIME_DAY_NAME
Where equivalent:	

---

Qualification: detail  
Associated dimension name: Day  
List of values: 1bv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour  
Type: Number  
Description: Hour  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: dimension  
List of values: 1bw, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hour Id  
Type: Number  
Description: Hour Id  
Select equivalent: DATETIME.TIME\_HOUR\_ID  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 1bx, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Time Hour Description  
Type: Character  
Description: Time Hour Description  
Select equivalent: DATETIME.TIME\_HOUR\_DESCRIPTION  
Where equivalent:

Qualification: detail  
Associated dimension name: Hour  
List of values: 1by, editable, manual refresh, not exportable  
Security access level: 0

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date
Type:	Date
Description:	Full Date
Select equivalent:	DATETIME.TIME_FULL_DATE
Where equivalent:	

Qualification:	dimension
List of values:	1c0, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Holiday
Type:	Character
Description:	Time Is Holiday
Select equivalent:	DATETIME.TIME_IS_HOLIDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	1c1, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Time Is Weekday
Type:	Character
Description:	Time Is Weekday
Select equivalent:	DATETIME.TIME_IS_WEEKDAY
Where equivalent:	

Qualification:	detail
Associated dimension name:	Full Date
List of values:	1c2, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hour Boundary
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---

Type:	Number
Description:	Hour Boundary
Select equivalent:	DATETIME.HOUR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	1c3, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Day Boundary
Type:	Number
Description:	Day Boundary
Select equivalent:	DATETIME.DAY_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	1c4, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Week Boundary
Type:	Number
Description:	Week Boundary
Select equivalent:	DATETIME.WEEK_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	1c5, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Month Boundary
Type:	Number
Description:	Month Boundary
Select equivalent:	DATETIME.MONTH_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	1c6, editable, manual refresh, not exportable

---

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Year Boundary
Type:	Number
Description:	Year Boundary
Select equivalent:	DATETIME.YEAR_BOUNDARY
Where equivalent:	

Qualification:	dimension
List of values:	1c7, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

Class:	Raw HP 3PAR AVG Storage Pool Volume Statistics
Description:	

Object:	% Read I/Os
Type:	Number
Description:	Ratio of read I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.PctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Write I/Os
Type:	Number
Description:	Ratio of write I/Os to total I/Os
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.PctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Average I/O Response Time (ms)  
Type: Number  
Description: Average time to complete an I/O operation in milliseconds  
Select equivalent: SR\_SE\_3PAR\_SPAGVol\_Stats.AvgIOResponseTime  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average % Busy  
Type: Number  
Description: Average time the storage system was busy  
Select equivalent: SR\_SE\_3PAR\_SPAGVol\_Stats.AvgPercentBusy  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Queue Depth  
Type: Number  
Description: Average number of pending read and write I/O operations  
Select equivalent: SR\_SE\_3PAR\_SPAGVol\_Stats.AvgQueueDepth  
Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read I/O Response Time (ms)

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---

Type:	Number
Description:	Average time to complete a read I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.AvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Response Time (ms)
Type:	Number
Description:	Average time to complete a write I/O operation in milliseconds
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.AvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Size (Bytes)
Type:	Number
Description:	Average read size of I/Os read
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.AvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Size (Bytes)
Type:	Number
Description:	Average write size of I/Os written
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.AvgWriteSize
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	% Hit Rate
Type:	Number
Description:	Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.PctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Read throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.ReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read Hit Rate (Req/Sec)
Type:	Number
Description:	Read cache hit rate (requests per second)
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.ReadHitRate
Where equivalent:	

Qualification:	measure
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---

Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Read I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read requests per second
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.ReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Rate data is transmitted between devices
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.TotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Total I/O Rate (Req/Sec)
Type:	Number
Description:	Number of read and write I/O operations given in re quests per second
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.TotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Write throughput rate (Bytes per second)
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.WriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Write I/O Rate (Req/Sec)
Type:	Number
Description:	Number of write requests per second
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.WriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Delta read hit I/Os (Req/Sec)
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.DeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Delta write I/Os (Req/Sec)
Select equivalent:	SR_SE_3PAR_SPAGVol_Stats.DeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Hourly HP 3PAR AVG Storage Pool Volume Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINPctReadIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINPctWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number

---

---

Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgIOResponseTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgPercentBusy
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number

---

---

Description:	Minimum of Average time the storage system was busy
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number

---

---

Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgQueueDepth
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgReadIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgWriteIORespTime

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgWriteIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgReadSize

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Average of Average Write Size (Bytes)</b>
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Hit Rate</b>
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Hit Rate</b>
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINPctHitRate
Where equivalent:	

---



---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGReadDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGReadHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXTotalDataRate

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXTotalIORate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGTotalIORate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXWriteDataRate
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGWriteDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MINWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.AVGWriteRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	SH_SE_3PAR_SPAGVol_Stats.MAXDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object: Minimum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta read hit I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SPAGVol\_Stats.MINDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Average Delta read hit I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SPAGVol\_Stats.AVGDeltaReadHitIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SPAGVol\_Stats.MAXDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Minimum Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SPAGVol\_Stats.MINDeltaWriteIOs

---



Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Delta Write I/Os (Req/Sec)  
Type: Number  
Description: Average Delta write I/Os (Req/Sec)  
Select equivalent: SH\_SE\_3PAR\_SPAGVol\_Stats.AVGDeltaWriteIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily HP 3PAR AVG Storage Pool Volume Statistics
Description:	

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXPctReadIOs  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MINPctReadIOs  
Where equivalent:

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINPctWriteI/Os
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgIOResponseTime
Where equivalent:	

Qualification:	measure
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Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGAvgIOResponseTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgPercentBusy
Where equivalent:	

Qualification:	measure
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Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgPercentBusy
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgQueueDepth
Where equivalent:	

Qualification:	measure
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Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGAvgQueueDepth
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgReadIORespTime
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to

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o complete a read I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MINAvgReadIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average of Average Read I/O Response Time (ms)  
Type: Number  
Description: Average of Average time to complete a read I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.AVGAvgReadIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum of Average Write I/O Response Time (ms)  
Type: Number  
Description: Maximum of Average time to complete a write I/O operation in milliseconds  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXAvgWriteIORespTime  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGAvgWriteIORespTime
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgReadSize
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no

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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGAvgReadSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGAvgWriteSize
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXPctHitRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum % Hit Rate
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINPctHitRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXReadDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINReadDataRate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Average Read Data Rate (Bytes/Sec)
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Type: Number  
Description: Average Read throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.AVGReadDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Maximum Read cache hit rate (requests per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Read Hit Rate (Req/Sec)  
Type: Number  
Description: Minimum Read cache hit rate (requests per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MINReadHitRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Read Hit Rate (Req/Sec)  
Type: Number  
Description: Average Read cache hit rate (requests per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.AVGReadHitRate  
Where equivalent:

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Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGReadRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no

---

Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Rate data is transmitted between devices
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGTotalDataRate
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGTotalIORate
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Maximum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Maximum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Minimum Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MINWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Write throughput rate (Bytes per second)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.AVGWriteDataRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Maximum Write I/O Rate (Req/Sec)

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Type: Number  
Description: Maximum Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MINWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.AVGWriteRate  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

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Object: Maximum Delta Read Hit I/Os (Req/Sec)  
Type: Number  
Description: Maximum Delta read hit I/Os (Req/Sec)  
Select equivalent: SD\_SE\_3PAR\_SPAGVol\_Stats.MAXDeltaReadHitIOs  
Where equivalent:

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Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGDeltaReadHitIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MAXDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no

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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.MINDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	SD_SE_3PAR_SPAGVol_Stats.AVGDeltaWriteIOs
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Class:	HourlyOLAP-HP 3PAR A VG Storage Pool Volume Statistics
Description:	

Object:	Maximum % Read I/Os
Type:	Number
Description:	Maximum Ratio of read I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max

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List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Read I/Os
Type:	Number
Description:	Minimum Ratio of read I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINPctReadIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Write I/Os
Type:	Number
Description:	Maximum Ratio of write I/Os to total I/Os
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Write I/Os
Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0

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Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number of pending read and write I/O operations
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgQueueDepth)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max

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List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read I/O Response Time (ms)
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgReadIORespTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation

---

---

Select equivalent:	ration in milliseconds max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response T ime (ms)
Type:	Number
Description:	Minimum of Average time t o complete a write I/O ope ration in milliseconds
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average W rite I/O Response Ti me (ms)
Type:	Number
Description:	Average of Average time t o complete a write I/O ope ration in milliseconds
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---



---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgReadSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number

---

---

Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum % Hit Rate
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to t otal number of I/O operati ons

---

---

Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum % Hit Rate
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to t otal number of I/O operati ons
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINReadDataRate)

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total Data Rate (Bytes/Sec)
Type:	Number

---

---

Description:	Average Rate data is transmitted between devices
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read and write I/O operations given in requests per second
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read and write I/O operations given in requests per second
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number

---

---

Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGWriteDataRate)

---



Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of write requests per second  
Select equivalent: max(SH\_SE\_3PAR\_SPAGVol\_Stats.MAXWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Write I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of write requests per second  
Select equivalent: min(SH\_SE\_3PAR\_SPAGVol\_Stats.MINWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Write I/O Rate (Req/Sec)  
Type: Number  
Description: Average Number of write requests per second  
Select equivalent: avg(SH\_SE\_3PAR\_SPAGVol\_Stats.AVGWriteRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SH_SE_3PAR_SPAGVol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SH_SE_3PAR_SPAGVol_Stats.MINDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SH_SE_3PAR_SPAGVol_Stats.AVGDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP-HP 3PAR AV G Storage Pool Volume Statistics
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## Description:

Object: Maximum % Read I/Os  
Type: Number  
Description: Maximum Ratio of read I/Os to total I/Os  
Select equivalent: max(SD\_SE\_3PAR\_SPAGVol\_Stats.MAXPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Read I/Os  
Type: Number  
Description: Minimum Ratio of read I/Os to total I/Os  
Select equivalent: min(SD\_SE\_3PAR\_SPAGVol\_Stats.MINPctReadIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum % Write I/Os  
Type: Number  
Description: Maximum Ratio of write I/Os to total I/Os  
Select equivalent: max(SD\_SE\_3PAR\_SPAGVol\_Stats.MAXPctWriteIOs)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum % Write I/Os

---

Type:	Number
Description:	Minimum Ratio of write I/Os to total I/Os
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINPctWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete an I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete an I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgIOResponseTime)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average I/O Response Time (ms)
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---

Type:	Number
Description:	Average of Average time to complete an I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgIOResponseTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average % Busy
Type:	Number
Description:	Maximum of Average time the storage system was busy
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average % Busy
Type:	Number
Description:	Minimum of Average time the storage system was busy
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgPercentBusy)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Queue Depth
Type:	Number
Description:	Maximum of Average number

---

---

	r of pending read and writ e I/O operations
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Queue Depth
Type:	Number
Description:	Minimum of Average number of pending read and write I/O operations
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Queue Depth
Type:	Number
Description:	Average of Average number of pending read and write I/O operations
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgQueueDepth)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

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Object:	Maximum of Average
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	<b>Read I/O Response Time (ms)</b>
Type:	Number
Description:	Maximum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum of Average Read I/O Response Time (ms)</b>
Type:	Number
Description:	Minimum of Average time to complete a read I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Average of Average Read I/O Response Time (ms)</b>
Type:	Number
Description:	Average of Average time to complete a read I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgReadIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no

---



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Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Maximum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write I/O Response Time (ms)
Type:	Number
Description:	Minimum of Average time to complete a write I/O operation in milliseconds
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write I/O Response Time (ms)
Type:	Number

---

---

Description:	Average of Average time to complete a write I/O operation in milliseconds
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgWriteIORespTime)
Where equivalent:	
Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Read Size (Bytes)
Type:	Number
Description:	Maximum of Average read size of I/Os read
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgReadSize)
Where equivalent:	
Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Read Size (Bytes)
Type:	Number
Description:	Minimum of Average read size of I/Os read
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgReadSize)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Read Size (Bytes)
Type:	Number
Description:	Average of Average read size of I/Os read
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgReadSize)

---

---

Where equivalent:

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum of Average Write Size (Bytes)
Type:	Number
Description:	Maximum of Average write size of I/Os written
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum of Average Write Size (Bytes)
Type:	Number
Description:	Minimum of Average write size of I/Os written
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average of Average Write Size (Bytes)
Type:	Number
Description:	Average of Average write size of I/Os written
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGAvgWriteSize)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average

---

---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum % Hit Rate</b>
Type:	Number
Description:	Maximum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Minimum % Hit Rate</b>
Type:	Number
Description:	Minimum Ratio of read and write cache hit rate to total number of I/O operations
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINPctHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	<b>Maximum Read Data Rate (Bytes/Sec)</b>
Type:	Number
Description:	Maximum Read throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXReadDataRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Read throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Read throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGReadDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Maximum Read cache hit rate (requests per second)
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Read Hit Rate (Req/Sec)
Type:	Number
Description:	Minimum Read cache hit rate (requests per second)
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read Hit Rate (Req/Sec)
Type:	Number
Description:	Average Read cache hit rate (requests per second)
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGReadHitRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of read requests per second
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Minimum Read I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of read requests per second
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Read I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read requests per second
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGReadRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Rate data is transmitted between devices
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXTotalDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Total Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Rate data is transmitted between devices
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINTotalDataRate)

---

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Average Total Data Rate (Bytes/Sec)  
Type: Number  
Description: Average Rate data is transmitted between devices  
Select equivalent: avg(SD\_SE\_3PAR\_SPAGVol\_Stats.AVGTotalDataRate)  
Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Maximum Total I/O Rate (Req/Sec)  
Type: Number  
Description: Maximum Number of read and write I/O operations given in requests per second  
Select equivalent: max(SD\_SE\_3PAR\_SPAGVol\_Stats.MAXTotalIORate)  
Where equivalent:

Qualification: measure  
Aggregate function: Max  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Minimum Total I/O Rate (Req/Sec)  
Type: Number  
Description: Minimum Number of read and write I/O operations given in requests per second  
Select equivalent: min(SD\_SE\_3PAR\_SPAGVol\_Stats.MINTotalIORate)



---

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Total I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of read and write I/O operations given in requests per second
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGTotalIORate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Maximum Write throughput rate (Bytes per second)
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Minimum Write throughput rate (Bytes per second)
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINWriteDataRate)
Where equivalent:	

---

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write Data Rate (Bytes/Sec)
Type:	Number
Description:	Average Write throughput rate (Bytes per second)
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGWriteDataRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Maximum Number of write requests per second
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Write I/O Rate (Req/Sec)
Type:	Number
Description:	Minimum Number of write requests per second
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0

---

---

Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Write I/O Rate (Req/Sec)
Type:	Number
Description:	Average Number of write requests per second
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGWriteRate)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta read hit I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta read hit I/Os (Req/Sec)
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

---

Object:	Average Delta Read Hit I/Os (Req/Sec)
Type:	Number
Description:	Average Delta read hit I/Os (Req/Sec)
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGDeltaReadHitIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Average
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Maximum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Maximum Delta write I/Os (Req/Sec)
Select equivalent:	max(SD_SE_3PAR_SPAGVol_Stats.MAXDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Max
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Minimum Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Minimum Delta write I/Os (Req/Sec)
Select equivalent:	min(SD_SE_3PAR_SPAGVol_Stats.MINDeltaWriteIOs)
Where equivalent:	

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Average Delta Write I/Os (Req/Sec)
Type:	Number
Description:	Average Delta write I/Os (Req/Sec)
Select equivalent:	avg(SD_SE_3PAR_SPAGVol_Stats.AVGDeltaWriteIOs)

---

Where equivalent:

Qualification: measure  
Aggregate function: Average  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Supplemental
Description:	

Object: FC Port Key  
Type: Number  
Description:

Select equivalent: K\_SE\_Storage\_Port.dsi\_key\_id  
Where equivalent:

Qualification: dimension  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Controller Key  
Type: Number  
Description:

Select equivalent: K\_SE\_Storage\_Processor.dsi\_key\_id  
Where equivalent:

Qualification: dimension  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Storage Pool Key  
Type: Number  
Description:

Select equivalent: K\_SE\_Storage\_Pool.dsi\_key\_id

Where equivalent:

Qualification: dimension  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Disk Drive Key  
Type: Number  
Description:

Select equivalent: K\_SE\_Storage\_DiskDrive.dsi\_key\_id  
Where equivalent:

Qualification: dimension  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Storage Volume Key  
Type: Number  
Description:

Select equivalent: K\_SE\_Storage\_Volume.dsi\_key\_id  
Where equivalent:

Qualification: dimension  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

---

Object: Storage System Key  
Type: Number  
Description:

Select equivalent: K\_SE\_StorageSystem.dsi\_key\_id  
Where equivalent:

Qualification: dimension  
List of values: no

Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: hidden

Class: 3PAR Storage System Measures  
Description:

No objects

Class: Raw 3PAR Storage System Measures  
Description:

Object: Raw Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_SYSTEM\_RAW\_MEASURE".Measure  
when 'Total I/O Rate (Req  
/Sec)' then SR\_SE\_3PAR\_St  
or\_Sys\_Stats.TotalIORate  
when 'Total Data Rate (By  
tes/Sec)' then SR\_SE\_3PAR  
\_Stor\_Sys\_Stats.TotalData  
Rate  
else 0  
end

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Raw Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_SYSTEM\_RAW\_MEASURE".Measure  
Where equivalent:

Qualification: dimension

List of values: 1q0, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly 3PAR Storage System Measures
Description:	

Object: Hourly Aggregate Measure  
Type: Number  
Description:

Select equivalent: Case "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
When 'Maximum Total I/O Rate (Req/Sec)' Then SH\_SE  
\_3PAR\_Stor\_Sys\_Stats.MAXTotalIORate  
When 'Average Total I/O Rate (Req/Sec)' Then SH\_SE  
\_3PAR\_Stor\_Sys\_Stats.AVGTotalIORate  
When 'Minimum Total I/O Rate (Req/Sec)' Then SH\_SE  
\_3PAR\_Stor\_Sys\_Stats.MINTotalIORate  
When 'Maximum Total Data Rate (Bytes/Sec)' Then SH  
\_SE\_3PAR\_Stor\_Sys\_Stats.MAXTotalDataRate  
When 'Average Total Data Rate (Bytes/Sec)' Then SH  
\_SE\_3PAR\_Stor\_Sys\_Stats.AVGTotalDataRate  
When 'Minimum Total Data Rate (Bytes/Sec)' Then SH  
\_SE\_3PAR\_Stor\_Sys\_Stats.MINTotalDataRate  
else 0  
End

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0



Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hourly Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1q2, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily 3PAR Storage System Measures
Description:	

Object: Daily Aggregate Measure  
Type: Number  
Description:

Select equivalent: Case "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
When 'Maximum Total I/O Rate (Req/Sec)' Then SD\_SE  
\_3PAR\_Stor\_Sys\_Stats.MAXTotalIORate  
When 'Average Total I/O Rate (Req/Sec)' Then SD\_SE  
\_3PAR\_Stor\_Sys\_Stats.AVGTotalIORate  
When 'Minimum Total I/O Rate (Req/Sec)' Then SD\_SE  
\_3PAR\_Stor\_Sys\_Stats.MINTotalIORate  
When 'Maximum Total Data Rate (Bytes/Sec)' Then SD  
\_SE\_3PAR\_Stor\_Sys\_Stats.MAXTotalDataRate  
When 'Average Total Data Rate (Bytes/Sec)' Then SD  
\_SE\_3PAR\_Stor\_Sys\_Stats.AVGTotalDataRate

When 'Minimum Total Data  
Rate (Bytes/Sec)' Then SD  
\_SE\_3PAR\_Stor\_Sys\_Stats.M  
INTotalDataRate  
else 0  
End

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Object: Daily Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1q3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	HourlyOLAP 3PAR Storage System Measures
Description:	

Object: HourlyOLAP Aggregate Measure  
Type: Number  
Description:

Select equivalent: Case "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
When 'Maximum Total I/O R  
ate (Req/Sec)' Then max(S  
H\_SE\_3PAR\_Stor\_Sys\_Stats.  
MAXTotalIORate)  
When 'Average Total I/O R  
ate (Req/Sec)' Then avg(S  
H\_SE\_3PAR\_Stor\_Sys\_Stats.  
AVGTotallIORate)

```

When 'Minimum Total I/O Rate (Req/Sec)' Then min(SH_SE_3PAR_Stor_Sys_Stats.MINTotalIORate)
When 'Maximum Total Data Rate (Bytes/Sec)' Then max(SH_SE_3PAR_Stor_Sys_Stats.MAXTotalDataRate)
When 'Average Total Data Rate (Bytes/Sec)' Then avg(SH_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate)
When 'Minimum Total Data Rate (Bytes/Sec)' Then min(SH_SE_3PAR_Stor_Sys_Stats.MINTotalDataRate)
else 0
End

```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	HourlyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_SYSTEM_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1q6, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP 3PAR Storage System Measures
Description:	

Object:	DailyOLAP Aggregate Measure
---------	-----------------------------

Type:	Number
Description:	
Select equivalent:	Case "3PAR_SYSTEM_HISTORY_MEASURE".Measure When 'Maximum Total I/O Rate (Req/Sec)' Then max(SD_SE_3PAR_Stor_Sys_Stats.MAXTotalIORate) When 'Average Total I/O Rate (Req/Sec)' Then avg(SD_SE_3PAR_Stor_Sys_Stats.AVGTotalIORate) When 'Minimum Total I/O Rate (Req/Sec)' Then min(SD_SE_3PAR_Stor_Sys_Stats.MINTotalIORate) When 'Maximum Total Data Rate (Bytes/Sec)' Then max(SD_SE_3PAR_Stor_Sys_Stats.MAXTotalDataRate) When 'Average Total Data Rate (Bytes/Sec)' Then avg(SD_SE_3PAR_Stor_Sys_Stats.AVGTotalDataRate) When 'Minimum Total Data Rate (Bytes/Sec)' Then min(SD_SE_3PAR_Stor_Sys_Stats.MINTotalDataRate) else 0 End
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object: DailyOLAP Measure  
 Type: Character  
 Description:

Select equivalent: "3PAR\_SYSTEM\_HISTORY\_MEASURE".Measure  
 Where equivalent:

Qualification: dimension  
 List of values: 1q8, editable, manual refresh, not exportable  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class: 3PAR Volume Measures  
 Description:

No objects

Class: Raw 3PAR Volume Measures  
 Description:

Object: Raw Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_VOLUME\_RAW\_MEASURE".Measure  
 when 'Write Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.WriteDataRate  
 when 'Read Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.ReadDataRate  
 when 'Total Data Rate (Req/Sec)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.TotalDataRate  
 when 'Read Hit Rate (Req/Sec)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.ReadHitRate  
 when 'Average Read Size (Bytes)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.AvgReadSize  
 when 'Average Write Size (Bytes)' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.AvgWriteSize  
 when '% Reads I/Os' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.PctWriteI/Os  
 when '% Write I/Os' then SR\_SE\_3PAR\_Stor\_Vol\_Stats.PctReadI/Os

```

when '% Hit Rate' then SR_SE_3PAR_Stor_Vol_Stats.PctHitRate
when 'Write I/O Rate (Req
/Sec)' then SR_SE_3PAR_St
or_Vol_Stats.WriteRate
when 'Read I/O Rate (Req/
Sec)' then SR_SE_3PAR_Sto
r_Vol_Stats.ReadRate
when 'Total I/O Rate (Req
/Sec)' then SR_SE_3PAR_St
or_Vol_Stats.TotalIORate
when 'Average I/O Respons
e Time (ms)' then SR_SE_
3PAR_Stor_Vol_Stats.AvgIO
ResponseTime
when 'Average Read I/O Re
sponse Time (ms)' then S
R_SE_3PAR_Stor_Vol_Stats.
AvgReadIORespTime
when 'Average Write I/O R
esponse Time (ms)' then S
R_SE_3PAR_Stor_Vol_Stats.
AvgWriteIORespTime
when 'Average % Busy' the
n SR_SE_3PAR_Stor_Vol_Sta
ts.AvgPercentBusy
when 'Average Queue Depth
' then SR_SE_3PAR_Stor_Vo
l_Stats.AvgQueueDepth
when 'Delta Read Hit I/Os
(Req/Sec)' then SR_SE_3PA
R_Stor_Vol_Stats.DeltaRea
dHitIOs
when 'Delta Write I/Os (R
eq/Sec)' then SR_SE_3PAR_
Stor_Vol_Stats.DeltaWritel
Os
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

Object status: show

---

Object: Raw Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_RAW\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qa, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: Hourly 3PAR Volume Measures Description:
--

Object: Hourly Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
when 'Maximum Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
AXWriteDataRate  
when 'Minimum Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
INWriteDataRate  
when 'Average Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.A  
VGWriteDataRate  
when 'Maximum Read Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
AXReadDataRate  
when 'Minimum Read Data R  
ate (Bytes/Sec)' then SH\_  
SE\_3PAR\_Stor\_Vol\_Stats.MI  
NReadDataRate  
when 'Average Read Data R

```

ate (Bytes/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.AV
GReadDataRate
when 'Maximum Total Data
Rate (Req/Sec)' then SH_S
E_3PAR_Stor_Vol_Stats.MAX
TotalDataRate
when 'Minimum Total Data
Rate (Req/Sec)' then SH_S
E_3PAR_Stor_Vol_Stats.MIN
TotalDataRate
when 'Average Total Data
Rate (Req/Sec)' then SH_S
E_3PAR_Stor_Vol_Stats.AVG
TotalDataRate
when 'Maximum Read Hit Ra
te (Req/Sec)' then SH_SE_
3PAR_Stor_Vol_Stats.MAXRe
adHitRate
when 'Minimum Read Hit Ra
te (Req/Sec)' then SH_SE_
3PAR_Stor_Vol_Stats.MINRe
adHitRate
when 'Average Read Hit Ra
te (Req/Sec)' then SH_SE_
3PAR_Stor_Vol_Stats.AVGRe
adHitRate
when 'Maximum of Average
Read Size (Bytes)' then SH
_SE_3PAR_Stor_Vol_Stats.M
AXAvgReadSize
when 'Minimum of Average
Read Size (Bytes)' then SH
_SE_3PAR_Stor_Vol_Stats.M
INAvgReadSize
when 'Average of Average
Read Size (Bytes)' then SH
_SE_3PAR_Stor_Vol_Stats.A
VGAvgReadSize
when 'Maximum of Average
Write Size (Bytes)' then S
H_SE_3PAR_Stor_Vol_Stats.
MAXAvgWriteSize
when 'Minimum of Average
Write Size (Bytes)' then S
H_SE_3PAR_Stor_Vol_Stats.

```



MINAvgWriteSize  
when 'Average of Average  
Write Size (Bytes)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGAvgWriteSize  
when 'Maximum % Write I/  
Os' then SH\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctReadIOs  
when 'Maximum % Hit Rate'  
then SH\_SE\_3PAR\_Stor\_Vol  
\_Stats.MAXPctHitRate  
when 'Minimum % Hit Rate'  
then SH\_SE\_3PAR\_Stor\_Vol  
\_Stats.MINPctHitRate  
when 'Maximum Write I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.MAX  
WriteRate  
when 'Minimum Write I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.MINW  
riteRate  
when 'Average Write I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.AVG  
WriteRate  
when 'Maximum Read I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.MAXR  
eadRate  
when 'Minimum Read I/O Ra  
te (Req/Sec)' then SH\_SE\_  
3PAR\_Stor\_Vol\_Stats.MINRe  
adRate  
when 'Average Read I/O Ra  
te (Req/Sec)' then SH\_SE\_  
3PAR\_Stor\_Vol\_Stats.AVGRe

adRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalIORate  
when 'Maximum of Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgIOResponseTime  
when 'Minimum of Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgIOResponseTime  
when 'Average of Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime  
when 'Maximum of Average Read I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadIOResponseTime  
when 'Minimum of Average Read I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadIOResponseTime  
when 'Average of Average Read I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadIOResponseTime  
when 'Maximum of Average Write I/O Response Time (ms)' then SH\_SE\_3PAR\_Stor

\_Vol\_Stats.MAXAvgWriteIOR  
espTime  
when 'Minimum of Average  
Write I/O Response Time (  
ms)' then SH\_SE\_3PAR\_Stor  
\_Vol\_Stats.MINAvgWriteIOR  
espTime  
when 'Average of Average  
Write I/O Response Time (  
ms)' then SH\_SE\_3PAR\_Stor  
\_Vol\_Stats.AVGAvgWriteIOR  
espTime  
when 'Maximum of Average  
% Busy' then SH\_SE\_3PAR\_  
Stor\_Vol\_Stats.MAXAvgPerc  
entBusy  
when 'Minimum of Average  
% Busy' then SH\_SE\_3PAR\_  
Stor\_Vol\_Stats.MINAvgPerc  
entBusy  
when 'Maximum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.MAXAvg  
QueueDepth  
when 'Minimum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.MINAvg  
QueueDepth  
when 'Average of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.AVGAvg  
QueueDepth  
when 'Maximum Delta Read  
Hit I/Os (Req/Sec)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXDeltaReadHitIOs  
when 'Minimum Delta Read  
Hit I/Os (Req/Sec)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
MINDeltaReadHitIOs  
when 'Average Delta Read  
Hit I/Os (Req/Sec)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGDeltaReadHitIOs  
when 'Maximum Delta Write  
I/Os (Req/Sec)' then SH\_

```
SE_3PAR_Stor_Vol_Stats.MA
XDeltaWriteIos
when 'Minimum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.MI
NDeltaWriteIos
when 'Average Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.AV
GDeltaWriteIos
else 0
end
```

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hourly Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qc, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily 3PAR Volume Measures
Description:	

Object: Daily Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
when 'Maximum Write Data  
Rate (Bytes/Sec)' then SD

\_SE\_3PAR\_Stor\_Vol\_Stats.M  
AXWriteDataRate  
when 'Minimum Write Data  
Rate (Bytes/Sec)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
INWriteDataRate  
when 'Average Write Data  
Rate (Bytes/Sec)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.A  
VGWriteDataRate  
when 'Maximum Read Data  
Rate (Bytes/Sec)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
AXReadDataRate  
when 'Minimum Read Data R  
ate (Bytes/Sec)' then SD\_  
SE\_3PAR\_Stor\_Vol\_Stats.MI  
NReadDataRate  
when 'Average Read Data R  
ate (Bytes/Sec)' then SD\_  
SE\_3PAR\_Stor\_Vol\_Stats.AV  
GReadDataRate  
when 'Maximum Total Data  
Rate (Req/Sec)' then SD\_S  
E\_3PAR\_Stor\_Vol\_Stats.MAX  
TotalDataRate  
when 'Minimum Total Data  
Rate (Req/Sec)' then SD\_S  
E\_3PAR\_Stor\_Vol\_Stats.MIN  
TotalDataRate  
when 'Average Total Data  
Rate (Req/Sec)' then SD\_S  
E\_3PAR\_Stor\_Vol\_Stats.AVG  
TotalDataRate  
when 'Maximum Read Hit Ra  
te (Req/Sec)' then SD\_SE\_  
3PAR\_Stor\_Vol\_Stats.MAXRe  
adHitRate  
when 'Minimum Read Hit Ra  
te (Req/Sec)' then SD\_SE\_  
3PAR\_Stor\_Vol\_Stats.MINRe  
adHitRate  
when 'Average Read Hit Ra  
te (Req/Sec)' then SD\_SE\_  
3PAR\_Stor\_Vol\_Stats.AVGRe  
adHitRate

when 'Maximum of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
AXAvgReadSize  
when 'Minimum of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
INAvgReadSize  
when 'Average of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.A  
VGAvgReadSize  
when 'Maximum of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXAvgWriteSize  
when 'Minimum of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MINAvgWriteSize  
when 'Average of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGAvgWriteSize  
when 'Maximum % Write I/  
Os' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/O  
s' then SD\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/O  
s' then SD\_SE\_3PAR\_Stor\_V  
ol\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O  
s' then SD\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctReadIOs  
when 'Maximum % Hit Rate'  
then SD\_SE\_3PAR\_Stor\_Vol  
\_Stats.MAXPctHitRate  
when 'Minimum % Hit Rate'  
then SD\_SE\_3PAR\_Stor\_Vol  
\_Stats.MINPctHitRate  
when 'Maximum Write I/O R  
ate (Req/Sec)' then SD\_SE  
\_3PAR\_Stor\_Vol\_Stats.MAX  
WriteRate

when 'Minimum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteRate

when 'Average Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteRate

when 'Maximum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadRate

when 'Minimum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadRate

when 'Average Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadRate

when 'Maximum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXTotalIORate

when 'Minimum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalIORate

when 'Average Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalIORate

when 'Maximum of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgIOResponseTime

when 'Minimum of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgIOResponseTime

when 'Average of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime

me  
when 'Maximum of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXAvgReadIORes  
pTime  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MINAvgReadIORes  
pTime  
when 'Average of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.AVGAvgReadIORes  
pTime  
when 'Maximum of Average  
Write I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MAXAvgWriteIOR  
espTime  
when 'Minimum of Average  
Write I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MINAvgWriteIOR  
espTime  
when 'Average of Average  
Write I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.AVGAvgWriteIOR  
espTime  
when 'Maximum of Average  
% Busy' then SD\_SE\_3PAR\_  
Stor\_Vol\_Stats.MAXAvgPerc  
entBusy  
when 'Minimum of Average  
% Busy' then SD\_SE\_3PAR\_  
Stor\_Vol\_Stats.MINAvgPerc  
entBusy  
when 'Maximum of Average  
Queue Depth' then SD\_SE\_3  
PAR\_Stor\_Vol\_Stats.MAXAvg  
QueueDepth  
when 'Minimum of Average  
Queue Depth' then SD\_SE\_3  
PAR\_Stor\_Vol\_Stats.MINAvg



```

QueueDepth
when 'Average of Average
Queue Depth' then SD_SE_3
PAR_Stor_Vol_Stats.AVGAvg
QueueDepth
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
MAXDeltaReadHitIOs
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
MINDeltaReadHitIOs
when 'Average Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
AVGDeltaReadHitIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.MA
XDeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.MI
NDeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.AV
GDeltaWriteIOs
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Daily Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
--------------------	---------------------------------------

Where equivalent:

Qualification:	dimension
List of values:	1qd, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HourlyOLAP 3PAR Volume Measures
Description:	

Object:	HourlyOLAP Aggregate Measure
Type:	Number
Description:	

Select equivalent:	<pre> case "3PAR_VOLUME_HISTORY_MEASURE".Measure when 'Maximum Write Data Rate (Bytes/Sec)' then MA X(SH_SE_3PAR_Stor_Vol_St ats.MAXWriteDataRate) when 'Minimum Write Data Rate (Bytes/Sec)' then MI N(SH_SE_3PAR_Stor_Vol_St ats.MINWriteDataRate) when 'Average Write Data Rate (Bytes/Sec)' then AV G(SH_SE_3PAR_Stor_Vol_St ats.AVGWriteDataRate) when 'Maximum Read Data Rate (Bytes/Sec)' then MA X(SH_SE_3PAR_Stor_Vol_St ats.MAXReadDataRate) when 'Minimum Read Data R ate (Bytes/Sec)' then MIN( SH_SE_3PAR_Stor_Vol_Stats .MINReadDataRate) when 'Average Read Data R ate (Bytes/Sec)' then AVG( SH_SE_3PAR_Stor_Vol_Stats .AVGReadDataRate) when 'Maximum Total Data Rate (Req/Sec)' then MAX( SH_SE_3PAR_Stor_Vol_Stats .MAXTotalDataRate) when 'Minimum Total Data </pre>
--------------------	--

---

```

Rate (Req/Sec)' then MIN(
SH_SE_3PAR_Stor_Vol_Stats
.MINTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SH_SE_3PAR_Stor_Vol_Stats
.AVGTotalDataRate)
when 'Maximum Read Hit Ra
te (Req/Sec)' then MAX(SH
_SE_3PAR_Stor_Vol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SH
_SE_3PAR_Stor_Vol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Stor_Vol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SH_SE_3PAR_Stor_Vol_S
tats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then M
IN(SH_SE_3PAR_Stor_Vol_St
ats.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV
G(SH_SE_3PAR_Stor_Vol_St
ats.AVGAvgReadSize)
when 'Maximum of Average
Write Size (Bytes)' then M
AX(SH_SE_3PAR_Stor_Vol_S
tats.MAXAvgWriteSize)
when 'Minimum of Average
Write Size (Bytes)' then M
IN(SH_SE_3PAR_Stor_Vol_St
ats.MINAvgWriteSize)
when 'Average of Average
Write Size (Bytes)' then A
VG(SH_SE_3PAR_Stor_Vol_S
tats.AVGAvgWriteSize)
when 'Maximum % Write I/
Os' then MAX(SH_SE_3PAR_
Stor_Vol_Stats.MAXPctWrit

```

---

```

eIOs)
when 'Minimum % Write I/O
s' then MIN(SH_SE_3PAR_St
or_Vol_Stats.MINPctWriteI
Os)
when 'Maximum % Read I/O
s' then MAX(SH_SE_3PAR_St
or_Vol_Stats.MAXPctReadIO
s)
when 'Minimum % Read I/O
s' then MIN(SH_SE_3PAR_St
or_Vol_Stats.MINPctReadIO
s)
when 'Maximum % Hit Rate'
then MAX(SH_SE_3PAR_Sto
r_Vol_Stats.MAXPctHitRate
)
when 'Minimum % Hit Rate'
then MIN(SH_SE_3PAR_Sto
r_Vol_Stats.MINPctHitRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Stor_Vol_Stats.
MAXWriteRate)
when 'Minimum Write I/O R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Stor_Vol_Stats.
MINWriteRate)
when 'Average Write I/O R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Stor_Vol_Stats.
AVGWriteRate)
when 'Maximum Read I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Stor_Vol_Stats.
MAXReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then MIN(SH
_SE_3PAR_Stor_Vol_Stats.M
INReadRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Stor_Vol_Stats.A
VGReadRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S

```

H\_SE\_3PAR\_Stor\_Vol\_Stats.  
 MAXTotalIORate)  
 when 'Minimum Total I/O R  
 ate (Req/Sec)' then MIN(S  
 H\_SE\_3PAR\_Stor\_Vol\_Stats.  
 MINTotalIORate)  
 when 'Average Total I/O R  
 ate (Req/Sec)' then AVG(S  
 H\_SE\_3PAR\_Stor\_Vol\_Stats.  
 AVGTotalIORate)  
 when 'Maximum of Average  
 I/O Response Time (ms)' t  
 hen MAX(SH\_SE\_3PAR\_Stor\_  
 Vol\_Stats.MAXAvgIORespons  
 eTime)  
 when 'Minimum of Average  
 I/O Response Time (ms)' t  
 hen MIN(SH\_SE\_3PAR\_Stor\_  
 Vol\_Stats.MINAvgIORespons  
 eTime)  
 when 'Average of Average  
 I/O Response Time (ms)' t  
 hen AVG(SH\_SE\_3PAR\_Stor\_  
 Vol\_Stats.AVGAvgIORespons  
 eTime)  
 when 'Maximum of Average  
 Read I/O Response Time (m  
 s)' then MAX(SH\_SE\_3PAR\_S  
 tor\_Vol\_Stats.MAXAvgReadI  
 ORespTime)  
 when 'Minimum of Average  
 Read I/O Response Time (m  
 s)' then MIN(SH\_SE\_3PAR\_S  
 tor\_Vol\_Stats.MINAvgReadI  
 ORespTime)  
 when 'Average of Average  
 Read I/O Response Time (m  
 s)' then AVG(SH\_SE\_3PAR\_S  
 tor\_Vol\_Stats.AVGAvgReadI  
 ORespTime)  
 when 'Maximum of Average  
 Write I/O Response Time (  
 ms)' then MAX(SH\_SE\_3PAR  
 \_Stor\_Vol\_Stats.MAXAvgWri  
 telORespTime)  
 when 'Minimum of Average

Write I/O Response Time (ms)' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteIOWriteTime)  
 when 'Average of Average Write I/O Response Time (ms)' then AVG(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteIOWriteTime)  
 when 'Maximum of Average % Busy' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgPercentBusy)  
 when 'Minimum of Average % Busy' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgPercentBusy)  
 when 'Maximum of Average Queue Depth' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgQueueDepth)  
 when 'Minimum of Average Queue Depth' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgQueueDepth)  
 when 'Average of Average Queue Depth' then AVG(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgQueueDepth)  
 when 'Maximum Delta Read Hit I/Os (Req/Sec)' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaReadHitIOWriteTime)  
 when 'Minimum Delta Read Hit I/Os (Req/Sec)' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINDeltaReadHitIOWriteTime)  
 when 'Average Delta Read Hit I/Os (Req/Sec)' then AVG(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaReadHitIOWriteTime)  
 when 'Maximum Delta Write I/Os (Req/Sec)' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaWriteIOWriteTime)  
 when 'Minimum Delta Write

```
I/Os (Req/Sec)' then MIN(
SH_SE_3PAR_Stor_Vol_Stats
.MINDeltaWriteI/Os)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SH_SE_3PAR_Stor_Vol_Stat
s.AVGDeltaWriteI/Os)
else 0
end
```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	HourlyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1qg, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP 3PAR Volume Measures
Description:	

Object:	DailyOLAP Aggregate Measure
Type:	Number
Description:	

Select equivalent:	case "3PAR_VOLUME_HISTORY_MEASURE".Measure when 'Maximum Write Data Rate (Bytes/Sec)' then MA X(SD_SE_3PAR_Stor_Vol_St ats.MAXWriteDataRate) when 'Minimum Write Data
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---

```

Rate (Bytes/Sec)' then MI
N(SD_SE_3PAR_Stor_Vol_St
ats.MINWriteDataRate)
when 'Average Write Data
Rate (Bytes/Sec)' then AV
G(SD_SE_3PAR_Stor_Vol_St
ats.AVGWriteDataRate)
when 'Maximum Read Data
Rate (Bytes/Sec)' then MA
X(SD_SE_3PAR_Stor_Vol_St
ats.MAXReadDataRate)
when 'Minimum Read Data R
ate (Bytes/Sec)' then MIN(
SD_SE_3PAR_Stor_Vol_Stats
.MINReadDataRate)
when 'Average Read Data R
ate (Bytes/Sec)' then AVG(
SD_SE_3PAR_Stor_Vol_Stats
.AVGReadDataRate)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SD_SE_3PAR_Stor_Vol_Stats
.MAXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SD_SE_3PAR_Stor_Vol_Stats
.MINTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SD_SE_3PAR_Stor_Vol_Stats
.AVGTotalDataRate)
when 'Maximum Read Hit Ra
te (Req/Sec)' then MAX(SD
_SE_3PAR_Stor_Vol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_Stor_Vol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_Stor_Vol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SD_SE_3PAR_Stor_Vol_S

```

---



```

tats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then MI
N(SD_SE_3PAR_Stor_Vol_St
ats.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV
G(SD_SE_3PAR_Stor_Vol_St
ats.AVGAvgReadSize)
when 'Maximum of Average
Write Size (Bytes)' then M
AX(SD_SE_3PAR_Stor_Vol_S
tats.MAXAvgWriteSize)
when 'Minimum of Average
Write Size (Bytes)' then M
IN(SD_SE_3PAR_Stor_Vol_St
ats.MINAvgWriteSize)
when 'Average of Average
Write Size (Bytes)' then A
VG(SD_SE_3PAR_Stor_Vol_S
tats.AVGAvgWriteSize)
when 'Maximum % Write I/
Os' then MAX(SD_SE_3PAR_
Stor_Vol_Stats.MAXPctWrit
eIOs)
when 'Minimum % Write I/O
s' then MIN(SD_SE_3PAR_St
or_Vol_Stats.MINPctWriteI
Os)
when 'Maximum % Read I/O
s' then MAX(SD_SE_3PAR_St
or_Vol_Stats.MAXPctReadIO
s)
when 'Minimum % Read I/O
s' then MIN(SD_SE_3PAR_St
or_Vol_Stats.MINPctReadIO
s)
when 'Maximum % Hit Rate'
then MAX(SD_SE_3PAR_Sto
r_Vol_Stats.MAXPctHitRate
)
when 'Minimum % Hit Rate'
then MIN(SD_SE_3PAR_Stor
_Vol_Stats.MINPctHitRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S

```

D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXWriteRate)  
when 'Minimum Write I/O R  
ate (Req/Sec)' then MIN(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MINWriteRate)  
when 'Average Write I/O R  
ate (Req/Sec)' then AVG(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGWriteRate)  
when 'Maximum Read I/O R  
ate (Req/Sec)' then MAX(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXReadRate)  
when 'Minimum Read I/O Ra  
te (Req/Sec)' then MIN(SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
INReadRate)  
when 'Average Read I/O Ra  
te (Req/Sec)' then AVG(SD  
\_SE\_3PAR\_Stor\_Vol\_Stats.A  
VGReadRate)  
when 'Maximum Total I/O R  
ate (Req/Sec)' then MAX(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXTotalIORate)  
when 'Minimum Total I/O R  
ate (Req/Sec)' then MIN(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
MINTotalIORate)  
when 'Average Total I/O R  
ate (Req/Sec)' then AVG(S  
D\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGTotalIORate)  
when 'Maximum of Average  
I/O Response Time (ms)' t  
hen MAX(SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXAvgIORespons  
eTime)  
when 'Minimum of Average  
I/O Response Time (ms)' t  
hen MIN(SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MINAvgIORespons  
eTime)  
when 'Average of Average  
I/O Response Time (ms)' t

---

then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime)  
when 'Maximum of Average Read I/O Response Time (ms)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadIORespTime)  
when 'Minimum of Average Read I/O Response Time (ms)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadIORespTime)  
when 'Average of Average Read I/O Response Time (ms)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadIORespTime)  
when 'Maximum of Average Write I/O Response Time (ms)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgWriteIORespTime)  
when 'Minimum of Average Write I/O Response Time (ms)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteIORespTime)  
when 'Average of Average Write I/O Response Time (ms)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteIORespTime)  
when 'Maximum of Average % Busy' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgPercentBusy)  
when 'Minimum of Average % Busy' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgPercentBusy)  
when 'Maximum of Average Queue Depth' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgQueueDepth)  
when 'Minimum of Average

```

Queue Depth' then MIN(SD_
SE_3PAR_Stor_Vol_Stats.MI
NAvgQueueDepth)
when 'Average of Average
Queue Depth' then AVG(SD_
SE_3PAR_Stor_Vol_Stats.AV
GAvgQueueDepth)
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then M
AX(SD_SE_3PAR_Stor_Vol_S
tats.MAXDeltaReadHitIOs)
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then M
IN(SD_SE_3PAR_Stor_Vol_St
ats.MINDeltaReadHitIOs)
when 'Average Delta Read
Hit I/Os (Req/Sec)' then A
VG(SD_SE_3PAR_Stor_Vol_S
tats.AVGDeltaReadHitIOs)
when 'Maximum Delta Write
I/Os (Req/Sec)' then MAX
(SD_SE_3PAR_Stor_Vol_Stat
s.MAXDeltaWriteIOs)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SD_SE_3PAR_Stor_Vol_Stats
.MINDeltaWriteIOs)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SD_SE_3PAR_Stor_Vol_Stat
s.AVGDeltaWriteIOs)
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	DailyOLAP Measure
Type:	Character
Description:	

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qi, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	3PAR Controller Measures
Description:	

No objects

Class:	Raw 3PAR Controller Measures
Description:	

Object: Raw Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_CNTRLR\_MEASURE\_RAW".Measure  
Where equivalent:

Qualification: dimension  
List of values: 3jv, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Raw Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_CNTRLR\_MEASURE\_RAW".Measure  
when '%Read I/Os' then SR\_SE\_3PAR\_Cntrlr\_Stats.PctReadIOs  
when '%Write I/Os' then SR\_SE\_3PAR\_Cntrlr\_Stats.PctWriteIOs  
when 'Average Read Size (Bytes)' then SR\_SE\_3PAR\_Cntrlr\_Stats.AvgReadSize  
when 'Average Write Size (Bytes)' then SR\_SE\_3PAR\_Cntrlr\_Stats.AvgWriteSize

```

Cntrlr_Stats.AvgWriteSize
when 'I/O Response Time (
ms)' then SR_SE_3PAR_Cntrlr_Stats.IOResponseTime
when '% Hits' then SR_SE_3PAR_Cntrlr_Stats.PctHitIOs
when 'Queue Depth' then SR_SE_3PAR_Cntrlr_Stats.QueueDepth
when 'Read Data Rate (Bytes/Sec)' then SR_SE_3PAR_Cntrlr_Stats.ReadDataRate
when 'Read I/O Rate(Req/Sec)' then SR_SE_3PAR_Cntrlr_Stats.ReadRate
when 'Service Time (ms)' then SR_SE_3PAR_Cntrlr_Stats.ServiceTime
when 'Total Data Rate (Bytes/Sec)' then SR_SE_3PAR_Cntrlr_Stats.TotalDataRate
when 'Total I/O Rate (Req/Sec)' then SR_SE_3PAR_Cntrlr_Stats.TotalIORate
when '%Utilization' then SR_SE_3PAR_Cntrlr_Stats.Utilization
when 'Write Data Rate (Bytes/Sec)' then SR_SE_3PAR_Cntrlr_Stats.WriteDataRate
when 'Write Hit Rate (Req/Sec)' then SR_SE_3PAR_Cntrlr_Stats.WriteHitRate
when 'Write I/O Rate (Req/Sec)' then SR_SE_3PAR_Cntrlr_Stats.WriteRate
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Hourly 3PAR Controller Measures
Description:	

Object: Hourly Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure  
 when 'Maximum % Read I/Os' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctReadIOs  
 when 'Minimum % Read I/Os' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINPctReadIOs  
 when 'Maximum % Write I/Os' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctWriteIOs  
 when 'Minimum % Write I/Os' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINPctWriteIOs  
 when 'Maximum of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXAvgReadSize  
 when 'Minimum of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINAvgReadSize  
 when 'Average of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGAvgReadSize  
 when 'Maximum of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXAvgWriteSize  
 when 'Minimum of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINAvgWriteSize  
 when 'Average of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGAvgWriteSize  
 when 'Maximum I/O Response Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXIORe

sponseTime  
when 'Minimum I/O Response Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINIOResponseTime  
when 'Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGIOResponseTime  
when 'Maximum % Hits' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXPctHitIOs  
when 'Minimum % Hits' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINPctHitIOs  
when 'Maximum Queue Depth' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXQueueDepth  
when 'Minimum Queue Depth' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINQueueDepth  
when 'Average Queue Depth' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGQueueDepth  
when 'Maximum Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXReadDataRate  
when 'Minimum Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINReadDataRate  
when 'Average Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGReadDataRate  
when 'Maximum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXReadRate  
when 'Minimum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINReadRate  
when 'Average Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGReadRate



3PAR\_Cntrlr\_Stats.AVGRead  
Rate  
when 'Maximum Service Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXServiceTime  
when 'Minimum Service Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINServiceTime  
when 'Average Service Time (ms)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGServiceTime  
when 'Maximum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXTotalDataRate  
when 'Minimum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINTotalDataRate  
when 'Average Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGTotalDataRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Cntrlr\_Stats.AVGTotalIORate  
when 'Maximum % Utilization' then SH\_SE\_3PAR\_Cntrlr\_Stats.MAXUtilization  
when 'Minimum % Utilization' then SH\_SE\_3PAR\_Cntrlr\_Stats.MINUtilization  
when 'Maximum Write Data Rate (Bytes/Sec)' then SH

```

_SE_3PAR_Cntrlr_Stats.MAX
WriteDataRate
when 'Minimum Write Data
Rate (Bytes/Sec)' then SH
_SE_3PAR_Cntrlr_Stats.MIN
WriteDataRate
when 'Average Write Data
Rate (Bytes/Sec)' then SH
_SE_3PAR_Cntrlr_Stats.AVG
WriteDataRate
when 'Maximum Write Hit R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.MAXWri
teHitRate
when 'Minimum Write Hit R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.MINWri
teHitRate
when 'Average Write Hit R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.AVGWri
teHitRate
when 'Maximum Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.MAXWri
teRate
when 'Minimum Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.MINWri
teRate
when 'Average Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Cntrlr_Stats.AVGWri
teRate
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Object: Hourly Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1pg, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily 3PAR Controller Measures
Description:	

Object: Daily Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1ph, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Daily Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure  
when 'Maximum % Read I/O  
s' then SD\_SE\_3PAR\_Cntrlr  
\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O  
s' then SD\_SE\_3PAR\_Cntrlr  
\_Stats.MINPctReadIOs  
when 'Maximum % Write I/  
Os' then SD\_SE\_3PAR\_Cntrl  
r\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/O

s' then SD\_SE\_3PAR\_Cntrlr  
 \_Stats.MINPctWriteIOs  
 when 'Maximum of Average  
 Read Size (Bytes)' then SD  
 \_SE\_3PAR\_Cntrlr\_Stats.MAX  
 AvgReadSize  
 when 'Minimum of Average  
 Read Size (Bytes)' then SD  
 \_SE\_3PAR\_Cntrlr\_Stats.MIN  
 AvgReadSize  
 when 'Average of Average  
 Read Size (Bytes)' then SD  
 \_SE\_3PAR\_Cntrlr\_Stats.AVG  
 AvgReadSize  
 when 'Maximum of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Cntrlr\_Stats.MA  
 XAvgWriteSize  
 when 'Minimum of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Cntrlr\_Stats.MI  
 NAvgWriteSize  
 when 'Average of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Cntrlr\_Stats.AV  
 GAvgWriteSize  
 when 'Maximum I/O Respon  
 se Time (ms)' then SD\_SE\_  
 3PAR\_Cntrlr\_Stats.MAXIORe  
 sponseTime  
 when 'Minimum I/O Respons  
 e Time (ms)' then SD\_SE\_3  
 PAR\_Cntrlr\_Stats.MINIORes  
 ponseTime  
 when 'Average I/O Respons  
 e Time (ms)' then SD\_SE\_3  
 PAR\_Cntrlr\_Stats.AVGIORes  
 ponseTime  
 when 'Maximum % Hits' the  
 n SD\_SE\_3PAR\_Cntrlr\_Stats  
 .MAXPctHitIOs  
 when 'Minimum % Hits' the  
 n SD\_SE\_3PAR\_Cntrlr\_Stats  
 .MINPctHitIOs  
 when 'Maximum Queue Dept  
 h' then SD\_SE\_3PAR\_Cntrlr

\_Stats.MAXQueueDepth  
when 'Minimum Queue Depth'  
then SD\_SE\_3PAR\_Cntrlr\_Stats.MINQueueDepth  
when 'Average Queue Depth'  
then SD\_SE\_3PAR\_Cntrlr\_Stats.AVGQueueDepth  
when 'Maximum Read Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MAXReadDataRate  
when 'Minimum Read Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MINReadDataRate  
when 'Average Read Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.AVGReadDataRate  
when 'Maximum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MAXReadRate  
when 'Minimum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MINReadRate  
when 'Average Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.AVGReadRate  
when 'Maximum Service Time (ms)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MAXServiceTime  
when 'Minimum Service Time (ms)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MINServiceTime  
when 'Average Service Time (ms)' then SD\_SE\_3PAR\_Cntrlr\_Stats.AVGServiceTime  
when 'Maximum Total Data Rate (Req/Sec)' then SD\_SE\_3PAR\_Cntrlr\_Stats.MAXTotalDataRate

```

talDataRate
when 'Minimum Total Data
Rate (Req/Sec)' then SD_SE
E_3PAR_Cntrlr_Stats.MINTot
talDataRate
when 'Average Total Data
Rate (Req/Sec)' then SD_SE
E_3PAR_Cntrlr_Stats.AVGTo
talDataRate
when 'Maximum Total I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MAXTot
allORate
when 'Minimum Total I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MINTot
allORate
when 'Average Total I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.AVGTot
allORate
when 'Maximum % Utilizati
on' then SD_SE_3PAR_Cntrl
r_Stats.MAXUtilization
when 'Minimum % Utilizati
on' then SD_SE_3PAR_Cntrl
r_Stats.MINUtilization
when 'Maximum Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_Cntrlr_Stats.MAX
WriteDataRate
when 'Minimum Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_Cntrlr_Stats.MIN
WriteDataRate
when 'Average Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_Cntrlr_Stats.AVG
WriteDataRate
when 'Maximum Write Hit R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MAXWri
teHitRate
when 'Minimum Write Hit R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MINWri

```

```

teHitRate
when 'Average Write Hit R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.AVGWri
teHitRate
when 'Maximum Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MAXWri
teRate
when 'Minimum Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.MINWri
teRate
when 'Average Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_Cntrlr_Stats.AVGWri
teRate
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HourlyOLAP 3PAR Controller Measures
Description:	

Object:	HourlyOLAP Aggregate Measure
Type:	Number
Description:	

Select equivalent:	<pre> case "3PAR_CNTRL_HISTORY_MEASURE".Measure when 'Maximum % Read I/O s' then MAX(SH_SE_3PAR_C ntrlr_Stats.MAXPctReadIOs ) when 'Minimum % Read I/O s' then MIN(SH_SE_3PAR_Cn trlr_Stats.MINPctReadIOs) when 'Maximum % Write I/ Os' then MAX(SH_SE_3PAR_ </pre>
--------------------	---

Cntrlr\_Stats.MAXPctWriteI  
 Os)  
 when 'Minimum % Write I/O  
 s' then MIN(SH\_SE\_3PAR\_Cn  
 trlr\_Stats.MINPctWriteIOs)  
 when 'Maximum of Average  
 Read Size (Bytes)' then M  
 AX(SH\_SE\_3PAR\_Cntrlr\_Stat  
 s.MAXAvgReadSize)  
 when 'Minimum of Average  
 Read Size (Bytes)' then MI  
 N(SH\_SE\_3PAR\_Cntrlr\_Stats  
 .MINAvgReadSize)  
 when 'Average of Average  
 Read Size (Bytes)' then AV  
 G(SH\_SE\_3PAR\_Cntrlr\_Stats  
 .AVGAvgReadSize)  
 when 'Maximum of Average  
 Write Size (Bytes)' then M  
 AX(SH\_SE\_3PAR\_Cntrlr\_Stat  
 s.MAXAvgWriteSize)  
 when 'Minimum of Average  
 Write Size (Bytes)' then M  
 IN(SH\_SE\_3PAR\_Cntrlr\_Stat  
 s.MINAvgWriteSize)  
 when 'Average of Average  
 Write Size (Bytes)' then A  
 VG(SH\_SE\_3PAR\_Cntrlr\_Stat  
 s.AVGAvgWriteSize)  
 when 'Maximum I/O Respon  
 se Time (ms)' then MAX(SH  
 \_SE\_3PAR\_Cntrlr\_Stats.MAX  
 IOResponseTime)  
 when 'Minimum I/O Respons  
 e Time (ms)' then MIN(SH\_  
 SE\_3PAR\_Cntrlr\_Stats.MINI  
 OResponseTime)  
 when 'Average I/O Respons  
 e Time (ms)' then AVG(SH\_  
 SE\_3PAR\_Cntrlr\_Stats.AVGI  
 OResponseTime)  
 when 'Maximum % Hits' the  
 n MAX(SH\_SE\_3PAR\_Cntrlr\_  
 Stats.MAXPctHitIOs)  
 when 'Minimum % Hits' the  
 n MIN(SH\_SE\_3PAR\_Cntrlr\_S



tats.MINPctHitIOs)  
when 'Maximum Queue Depth'  
then MAX(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXQueueDepth)  
)  
when 'Minimum Queue Depth'  
then MIN(SH\_SE\_3PAR\_Cntrlr\_Stats.MINQueueDepth)  
)  
when 'Average Queue Depth'  
then AVG(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGQueueDepth)  
when 'Maximum Read Data Rate (Bytes/Sec)' then MAX(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXReadDataRate)  
when 'Minimum Read Data Rate (Bytes/Sec)' then MIN(SH\_SE\_3PAR\_Cntrlr\_Stats.MINReadDataRate)  
when 'Average Read Data Rate (Bytes/Sec)' then AVG(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGReadDataRate)  
when 'Maximum Read I/O Rate (Req/Sec)' then MAX(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXReadRate)  
when 'Minimum Read I/O Rate (Req/Sec)' then MIN(SH\_SE\_3PAR\_Cntrlr\_Stats.MINReadRate)  
when 'Average Read I/O Rate (Req/Sec)' then AVG(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGReadRate)  
when 'Maximum Service Time (ms)' then MAX(SH\_SE\_3PAR\_Cntrlr\_Stats.MAXServiceTime)  
when 'Minimum Service Time (ms)' then MIN(SH\_SE\_3PAR\_Cntrlr\_Stats.MINServiceTime)  
when 'Average Service Time (ms)' then AVG(SH\_SE\_3PAR\_Cntrlr\_Stats.AVGServiceTime)

---

```
AR_Cntrlr_Stats.AVGServiceTime)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SH_SE_3PAR_Cntrlr_Stats.M
AXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SH_SE_3PAR_Cntrlr_Stats.M
INTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SH_SE_3PAR_Cntrlr_Stats.A
VGTotalDataRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Cntrlr_Stats.MA
XTotallIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Cntrlr_Stats.MI
NTotallIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Cntrlr_Stats.AV
GTotallIORate)
when 'Maximum % Utilizati
on' then MAX(SH_SE_3PAR_
Cntrlr_Stats.MAXUtilizatio
n)
when 'Minimum % Utilizati
on' then MIN(SH_SE_3PAR_
Cntrlr_Stats.MINUtilizatio
n)
when 'Maximum Write Data
Rate (Bytes/Sec)' then MA
X(SH_SE_3PAR_Cntrlr_Stats
.MAXWriteDataRate)
when 'Minimum Write Data
Rate (Bytes/Sec)' then MI
N(SH_SE_3PAR_Cntrlr_Stats
.MINWriteDataRate)
when 'Average Write Data
Rate (Bytes/Sec)' then AV
G(SH_SE_3PAR_Cntrlr_Stats
.AVGWriteDataRate)
```

---

```

when 'Maximum Write Hit R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Cntrlr_Stats.MA
XWriteHitRate)
when 'Minimum Write Hit R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Cntrlr_Stats.MI
NWriteHitRate)
when 'Average Write Hit R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Cntrlr_Stats.AV
GWriteHitRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Cntrlr_Stats.MA
XWriteRate)
when 'Minimum Write I/O R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Cntrlr_Stats.MI
NWriteRate)
when 'Average Write I/O R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Cntrlr_Stats.AV
GWriteRate)
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	HourlyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_CNTRL_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1pi, editable, manual refresh, not exportable
Security access level:	0

Can be used: in result, in condition, in sort  
 Object status: show

Class:	DailyOLAP 3PAR Controller Measures
Description:	

Object: DailyOLAP Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure  
 when 'Maximum % Read I/O  
 s' then MAX(SD\_SE\_3PAR\_C  
 ntrlr\_Stats.MAXPctReadIOs  
 )  
 when 'Minimum % Read I/O  
 s' then MIN(SD\_SE\_3PAR\_Cn  
 trlr\_Stats.MINPctReadIOs)  
 when 'Maximum % Write I/  
 Os' then MAX(SD\_SE\_3PAR\_  
 Cntrlr\_Stats.MAXPctWriteI  
 Os)  
 when 'Minimum % Write I/O  
 s' then MIN(SD\_SE\_3PAR\_Cn  
 trlr\_Stats.MINPctWriteIOs)  
 when 'Maximum of Average  
 Read Size (Bytes)' then M  
 AX(SD\_SE\_3PAR\_Cntrlr\_Stat  
 s.MAXAvgReadSize)  
 when 'Minimum of Average  
 Read Size (Bytes)' then MI  
 N(SD\_SE\_3PAR\_Cntrlr\_Stats  
 .MINAvgReadSize)  
 when 'Average of Average  
 Read Size (Bytes)' then AV  
 G(SD\_SE\_3PAR\_Cntrlr\_Stats  
 .AVGAvgReadSize)  
 when 'Maximum of Average  
 Write Size (Bytes)' then M  
 AX(SD\_SE\_3PAR\_Cntrlr\_Stat  
 s.MAXAvgWriteSize)  
 when 'Minimum of Average  
 Write Size (Bytes)' then M  
 IN(SD\_SE\_3PAR\_Cntrlr\_Stat  
 s.MINAvgWriteSize)

when 'Average of Average  
 Write Size (Bytes)' then A  
 VG(SD\_SE\_3PAR\_Cntrlr\_Stat  
 s.AVGAvgWriteSize)  
 when 'Maximum I/O Respon  
 se Time (ms)' then MAX(SD  
 \_SE\_3PAR\_Cntrlr\_Stats.MAX  
 IOResponseTime)  
 when 'Minimum I/O Respon  
 se Time (ms)' then MIN(SD\_  
 SE\_3PAR\_Cntrlr\_Stats.MINI  
 OResponseTime)  
 when 'Average I/O Respon  
 se Time (ms)' then AVG(SD\_  
 SE\_3PAR\_Cntrlr\_Stats.AVGI  
 OResponseTime)  
 when 'Maximum % Hits' the  
 n MAX(SD\_SE\_3PAR\_Cntrlr\_  
 Stats.MAXPctHitIOs)  
 when 'Minimum % Hits' the  
 n MIN(SD\_SE\_3PAR\_Cntrlr\_S  
 tats.MINPctHitIOs)  
 when 'Maximum Queue Dept  
 h' then MAX(SD\_SE\_3PAR\_C  
 ntrlr\_Stats.MAXQueueDepth  
 )  
 when 'Minimum Queue Dept  
 h' then MIN(SD\_SE\_3PAR\_C  
 ntrlr\_Stats.MINQueueDepth  
 )  
 when 'Average Queue Depth  
 ' then AVG(SD\_SE\_3PAR\_Cnt  
 rlr\_Stats.AVGQueueDepth)  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_Cntrlr\_Stats  
 .MAXReadDataRate)  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then MIN(  
 SD\_SE\_3PAR\_Cntrlr\_Stats.M  
 INReadDataRate)  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then AVG(  
 SD\_SE\_3PAR\_Cntrlr\_Stats.A  
 VGReadDataRate)  
 when 'Maximum Read I/O R

---

```
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Cntrlr_Stats.MA
XReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_Cntrlr_Stats.MIN
ReadRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_Cntrlr_Stats.AVG
ReadRate)
when 'Maximum Service Tim
e (ms)' then MAX(SD_SE_3P
AR_Cntrlr_Stats.MAXServic
eTime)
when 'Minimum Service Tim
e (ms)' then MIN(SD_SE_3P
AR_Cntrlr_Stats.MINServic
eTime)
when 'Average Service Tim
e (ms)' then AVG(SD_SE_3P
AR_Cntrlr_Stats.AVGServic
eTime)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SD_SE_3PAR_Cntrlr_Stats.M
AXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SD_SE_3PAR_Cntrlr_Stats.M
INTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SD_SE_3PAR_Cntrlr_Stats.A
VGTotalDataRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Cntrlr_Stats.MA
XTotallIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_Cntrlr_Stats.MI
NTotallIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_Cntrlr_Stats.AV
```

---

```
GTotallIORate)
when 'Maximum % Utilization' then MAX(SD_SE_3PAR_
Cntrlr_Stats.MAXUtilization)
when 'Minimum % Utilization' then MIN(SD_SE_3PAR_
Cntrlr_Stats.MINUtilization)
when 'Maximum Write Data Rate (Bytes/Sec)' then MAX(SD_SE_3PAR_
Cntrlr_Stats.MAXWriteDataRate)
when 'Minimum Write Data Rate (Bytes/Sec)' then MIN(SD_SE_3PAR_
Cntrlr_Stats.MINWriteDataRate)
when 'Average Write Data Rate (Bytes/Sec)' then AVG(SD_SE_3PAR_
Cntrlr_Stats.AVGWriteDataRate)
when 'Maximum Write Hit Rate (Req/Sec)' then MAX(SD_SE_3PAR_
Cntrlr_Stats.MAXWriteHitRate)
when 'Minimum Write Hit Rate (Req/Sec)' then MIN(SD_SE_3PAR_
Cntrlr_Stats.MINWriteHitRate)
when 'Average Write Hit Rate (Req/Sec)' then AVG(SD_SE_3PAR_
Cntrlr_Stats.AVGWriteHitRate)
when 'Maximum Write I/O Rate (Req/Sec)' then MAX(SD_SE_3PAR_
Cntrlr_Stats.MAXWriteRate)
when 'Minimum Write I/O Rate (Req/Sec)' then MIN(SD_SE_3PAR_
Cntrlr_Stats.MINWriteRate)
when 'Average Write I/O Rate (Req/Sec)' then AVG(SD_SE_3PAR_
Cntrlr_Stats.AVGWriteRate)
else 0
```

---

end

Where equivalent:

Qualification: measure

Aggregate function: Min

List of values: no

Security access level: 0

Can be used: in result, in condition, in sort

Object status: show

---

Object: DailyOLAP Measure

Type: Character

Description:

Select equivalent: "3PAR\_CNTRL\_HISTORY\_MEASURE".Measure

Where equivalent:

Qualification: dimension

List of values: 1pj, editable, manual refresh, not exportable

Security access level: 0

Can be used: in result, in condition, in sort

Object status: show

Class: 3PAR Disk Measures

Description:

No objects

Class: Raw 3PAR Disk Measures

Description:

Object: Raw Aggregate Measure

Type: Number

Description:

Select equivalent: case "3PAR\_DISK\_RAW\_MEASURE".Measure  
when '% Read I/Os' then SR\_SE\_3PAR\_Disk\_Stats.PctWriteIOs  
when '% Write I/Os' then SR\_SE\_3PAR\_Disk\_Stats.PctReadIOs  
when 'Average I/O Response Time (ms)' then SR\_SE\_3PAR\_Disk\_Stats.AvgIOResponseTime  
when 'Average Queue Depth



```

' then SR_SE_3PAR_Disk_Stats.AvgQueueDepth
when 'Average Read Size (Bytes)' then SR_SE_3PAR_Disk_Stats.AvgReadSize
when 'Average Write Size (Bytes)' then SR_SE_3PAR_Disk_Stats.AvgWriteSize
when 'Read Data Rate (Bytes/Sec)' then SR_SE_3PAR_Disk_Stats.ReadDataRate
when 'Read I/O Rate (Req/Sec)' then SR_SE_3PAR_Disk_Stats.ReadRate
when 'Total Data Rate (Bytes/Sec)' then SR_SE_3PAR_Disk_Stats.TotalDataRate
when 'Total I/O Rate (Req/Sec)' then SR_SE_3PAR_Disk_Stats.TotalIORate
when 'Write Data Rate (Bytes/Sec)' then SR_SE_3PAR_Disk_Stats.WriteDataRate
when 'Write I/O Rate (Req/Sec)' then SR_SE_3PAR_Disk_Stats.WriteRate
when 'Average Read I/O Response Time (ms)' then SR_SE_3PAR_Disk_Stats.AvgReadIORespTime
when 'Average Write I/O Response Time (ms)' then SR_SE_3PAR_Disk_Stats.AvgWriteIORespTime
when 'Average % Busy' then SR_SE_3PAR_Disk_Stats.AvgPercentBusy
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

Object status: show

---

Object: Raw Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_DISK\_RAW\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1r5, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: Hourly 3PAR Disk Measures Description:
--

Object: Hourly Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
when 'Maximum % Write I/Os' then SH\_SE\_3PAR\_Disk\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/Os' then SH\_SE\_3PAR\_Disk\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/Os' then SH\_SE\_3PAR\_Disk\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/Os' then SH\_SE\_3PAR\_Disk\_Stats.MINPctReadIOs  
when 'Maximum of Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Disk\_Stats.MAXAvgIOResponseTime  
when 'Minimum of Average I/O Response Time (ms)' then SH\_SE\_3PAR\_Disk\_Stats.MINAvgIOResponseTime  
when 'Average of Average

I/O Response Time (ms)' then SH\_SE\_3PAR\_Disk\_Stats.AVGAvglOResponseTime  
 when 'Maximum of Average Queue Depth' then SH\_SE\_3PAR\_Disk\_Stats.MAXAvgQueueDepth  
 when 'Minimum of Average Queue Depth' then SH\_SE\_3PAR\_Disk\_Stats.MINAvgQueueDepth  
 when 'Average of Average Queue Depth' then SH\_SE\_3PAR\_Disk\_Stats.AVGAvgQueueDepth  
 when 'Maximum of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.MAXAvgReadSize  
 when 'Minimum of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.MINAvgReadSize  
 when 'Average of Average Read Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.AVGAvgReadSize  
 when 'Maximum of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.MAXAvgWriteSize  
 when 'Minimum of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.MINAvgWriteSize  
 when 'Average of Average Write Size (Bytes)' then SH\_SE\_3PAR\_Disk\_Stats.AVGAvgWriteSize  
 when 'Maximum Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MAXReadDataRate  
 when 'Minimum Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MINReadDataRate

dDataRate  
 when 'Average Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.AVGReadDataRate  
 when 'Maximum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MAXReadRate  
 when 'Minimum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MINReadRate  
 when 'Average Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.AVGReadRate  
 when 'Maximum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MAXTotalDataRate  
 when 'Minimum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MINTotalDataRate  
 when 'Average Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.AVGTotalDataRate  
 when 'Maximum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MAXTotalIORate  
 when 'Minimum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MINTotalIORate  
 when 'Average Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.AVGTotalIORate  
 when 'Maximum Write Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_Disk\_Stats.MAXWriteDataRate  
 when 'Minimum Write Data

Rate (Bytes/Sec)' then SH  
 \_SE\_3PAR\_Disk\_Stats.MINW  
 riteDataRate  
 when 'Average Write Data  
 Rate (Bytes/Sec)' then SH  
 \_SE\_3PAR\_Disk\_Stats.AVGW  
 riteDataRate  
 when 'Maximum Write I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_Disk\_Stats.MAXWrite  
 Rate  
 when 'Minimum Write I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_Disk\_Stats.MINWrite  
 Rate  
 when 'Average Write I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_Disk\_Stats.AVGWrite  
 Rate  
 when 'Maximum of Average  
 Read I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_Disk\_  
 Stats.MAXAvgReadIORespTi  
 me  
 when 'Minimum of Average  
 Read I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_Disk\_  
 Stats.MINAvgReadIORespTi  
 me  
 when 'Average of Average  
 Read I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_Disk\_  
 Stats.AVGAvgReadIORespTi  
 me  
 when 'Maximum of Average  
 Write I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_Disk\_  
 Stats.MAXAvgWriteIORespT  
 ime  
 when 'Minimum of Average  
 Write I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_Disk\_  
 Stats.MINAvgWriteIORespT  
 ime  
 when 'Average of Average  
 Write I/O Response Time (

```
ms)' then SH_SE_3PAR_Disk
_Stats.AVGAvgWriteIORespT
ime
when 'Maximum of Average
% Busy' then SH_SE_3PAR_
Disk_Stats.MAXAvgPercentB
usy
when 'Minimum of Average
% Busy' then SH_SE_3PAR_
Disk_Stats.MINAvgPercentB
usy
else 0
end
```

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Object: Hourly Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1r7, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily 3PAR Disk Measures
Description:	

Object: Daily Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
when 'Maximum % Write I/

Os' then SD\_SE\_3PAR\_Disk\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/Os' then SD\_SE\_3PAR\_Disk\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/Os' then SD\_SE\_3PAR\_Disk\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/Os' then SD\_SE\_3PAR\_Disk\_Stats.MINPctReadIOs  
when 'Maximum of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Disk\_Stats.MAXAvgIOResponseTime  
when 'Minimum of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Disk\_Stats.MINAvgIOResponseTime  
when 'Average of Average I/O Response Time (ms)' then SD\_SE\_3PAR\_Disk\_Stats.AVGAvgIOResponseTime  
when 'Maximum of Average Queue Depth' then SD\_SE\_3PAR\_Disk\_Stats.MAXAvgQueueDepth  
when 'Minimum of Average Queue Depth' then SD\_SE\_3PAR\_Disk\_Stats.MINAvgQueueDepth  
when 'Average of Average Queue Depth' then SD\_SE\_3PAR\_Disk\_Stats.AVGAvgQueueDepth  
when 'Maximum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Disk\_Stats.MAXAvgReadSize  
when 'Minimum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Disk\_Stats.MINAvgReadSize  
when 'Average of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Disk\_Stats.AVGAvgReadSize

vgReadSize  
 when 'Maximum of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Disk\_Stats.MAX  
 AvgWriteSize  
 when 'Minimum of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Disk\_Stats.MIN  
 AvgWriteSize  
 when 'Average of Average  
 Write Size (Bytes)' then S  
 D\_SE\_3PAR\_Disk\_Stats.AVG  
 AvgWriteSize  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_Disk\_Stats.MAXR  
 eadDataRate  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then SD\_  
 SE\_3PAR\_Disk\_Stats.MINRea  
 dDataRate  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then SD\_  
 SE\_3PAR\_Disk\_Stats.AVGRe  
 adDataRate  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then SD\_SE  
 \_3PAR\_Disk\_Stats.MAXRead  
 Rate  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then SD\_SE\_  
 3PAR\_Disk\_Stats.MINReadR  
 ate  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then SD\_SE\_  
 3PAR\_Disk\_Stats.AVGReadR  
 ate  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_Disk\_Stats.MAXTota  
 lDataRate  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_Disk\_Stats.MINTota  
 lDataRate  
 when 'Average Total Data



Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.AVGTotalDataRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.AVGTotalIORate  
when 'Maximum Write Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MAXWriteDataRate  
when 'Minimum Write Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MINWriteDataRate  
when 'Average Write Data Rate (Bytes/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.AVGWriteDataRate  
when 'Maximum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MAXWriteRate  
when 'Minimum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.MINWriteRate  
when 'Average Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Disk\_Stats.AVGWriteRate  
when 'Maximum of Average Read I/O Response Time (ms)' then SD\_SE\_3PAR\_Disk\_Stats.MAXAvgReadIOResponseTime  
when 'Minimum of Average Read I/O Response Time (ms)' then SD\_SE\_3PAR\_Disk\_Stats.MINAvgReadIOResponseTime

```

s)' then SD_SE_3PAR_Disk_
Stats.MINAvgReadIORespTi
me
when 'Average of Average
Read I/O Response Time (m
s)' then SD_SE_3PAR_Disk_
Stats.AVGAvgReadIORespTi
me
when 'Maximum of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_Disk
_Stats.MAXAvgWriteIORespT
ime
when 'Minimum of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_Disk
_Stats.MINAvgWriteIORespT
ime
when 'Average of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_Disk
_Stats.AVGAvgWriteIORespT
ime
when 'Maximum of Average
% Busy' then SD_SE_3PAR_
Disk_Stats.MAXAvgPercentB
usy
when 'Minimum of Average
% Busy' then SD_SE_3PAR_
Disk_Stats.MINAvgPercentB
usy
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Daily Measure
Type:	Character
Description:	

Select equivalent: "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1r8, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	HourlyOLAP 3PAR Disk Measures
Description:	

Object: HourlyOLAP Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
when 'Maximum % Write I/  
Os' then MAX(SH\_SE\_3PAR\_  
Disk\_Stats.MAXPctWriteIOs  
)  
when 'Minimum % Write I/O  
s' then MIN(SH\_SE\_3PAR\_Di  
sk\_Stats.MINPctWriteIOs)  
when 'Maximum % Read I/O  
s' then MAX(SH\_SE\_3PAR\_Di  
sk\_Stats.MAXPctReadIOs)  
when 'Minimum % Read I/O  
s' then MIN(SH\_SE\_3PAR\_Di  
sk\_Stats.MINPctReadIOs)  
when 'Maximum of Average  
I/O Response Time (ms)' t  
hen MAX(SH\_SE\_3PAR\_Disk\_  
Stats.MAXAvgIOResponseTi  
me)  
when 'Minimum of Average  
I/O Response Time (ms)' t  
hen MIN(SH\_SE\_3PAR\_Disk\_  
Stats.MINAvgIOResponseTim  
e)  
when 'Average of Average  
I/O Response Time (ms)' t  
hen AVG(SH\_SE\_3PAR\_Disk\_  
Stats.AVGAvgIOResponseTi

me)  
when 'Maximum of Average  
Queue Depth' then MAX(SH\_  
SE\_3PAR\_Disk\_Stats.MAXAv  
gQueueDepth)  
when 'Minimum of Average  
Queue Depth' then MIN(SH\_  
SE\_3PAR\_Disk\_Stats.MINAvg  
QueueDepth)  
when 'Average of Average  
Queue Depth' then AVG(SH\_  
SE\_3PAR\_Disk\_Stats.AVGAv  
gQueueDepth)  
when 'Maximum of Average  
Read Size (Bytes)' then M  
AX(SH\_SE\_3PAR\_Disk\_Stats.  
MAXAvgReadSize)  
when 'Minimum of Average  
Read Size (Bytes)' then MI  
N(SH\_SE\_3PAR\_Disk\_Stats.  
MINAvgReadSize)  
when 'Average of Average  
Read Size (Bytes)' then AV  
G(SH\_SE\_3PAR\_Disk\_Stats.A  
VGAvgReadSize)  
when 'Maximum of Average  
Write Size (Bytes)' then M  
AX(SH\_SE\_3PAR\_Disk\_Stats.  
MAXAvgWriteSize)  
when 'Minimum of Average  
Write Size (Bytes)' then M  
IN(SH\_SE\_3PAR\_Disk\_Stats.  
MINAvgWriteSize)  
when 'Average of Average  
Write Size (Bytes)' then A  
VG(SH\_SE\_3PAR\_Disk\_Stats.  
AVGAvgWriteSize)  
when 'Maximum Read Data  
Rate (Bytes/Sec)' then MA  
X(SH\_SE\_3PAR\_Disk\_Stats.  
MAXReadDataRate)  
when 'Minimum Read Data R  
ate (Bytes/Sec)' then MIN(  
SH\_SE\_3PAR\_Disk\_Stats.MI  
NReadDataRate)  
when 'Average Read Data R

```

ate (Bytes/Sec)' then AVG(
SH_SE_3PAR_Disk_Stats.AV
GReadDataRate)
when 'Maximum Read I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Disk_Stats.MAX
ReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Disk_Stats.MINRe
adRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Disk_Stats.AVGR
eadRate)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SH_SE_3PAR_Disk_Stats.MA
XTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SH_SE_3PAR_Disk_Stats.MI
NTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SH_SE_3PAR_Disk_Stats.AV
GTotalDataRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Disk_Stats.MAX
TotalIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Disk_Stats.MIN
TotalIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Disk_Stats.AVG
TotalIORate)
when 'Maximum Write Data
Rate (Bytes/Sec)' then MA
X(SH_SE_3PAR_Disk_Stats.
MAXWriteDataRate)
when 'Minimum Write Data
Rate (Bytes/Sec)' then MI
N(SH_SE_3PAR_Disk_Stats.

```

MINWriteDataRate)  
when 'Average Write Data  
Rate (Bytes/Sec)' then AV  
G(SH\_SE\_3PAR\_Disk\_Stats.A  
VGWriteDataRate)  
when 'Maximum Write I/O R  
ate (Req/Sec)' then MAX(S  
H\_SE\_3PAR\_Disk\_Stats.MAX  
WriteRate)  
when 'Minimum Write I/O R  
ate (Req/Sec)' then MIN(S  
H\_SE\_3PAR\_Disk\_Stats.MIN  
WriteRate)  
when 'Average Write I/O R  
ate (Req/Sec)' then AVG(S  
H\_SE\_3PAR\_Disk\_Stats.AVG  
WriteRate)  
when 'Maximum of Average  
Read I/O Response Time (m  
s)' then MAX(SH\_SE\_3PAR\_  
Disk\_Stats.MAXAvgReadIOR  
espTime)  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then MIN(SH\_SE\_3PAR\_D  
isk\_Stats.MINAvgReadIORes  
pTime)  
when 'Average of Average  
Read I/O Response Time (m  
s)' then AVG(SH\_SE\_3PAR\_D  
isk\_Stats.AVGAvgReadIORes  
pTime)  
when 'Maximum of Average  
Write I/O Response Time (m  
s)' then MAX(SH\_SE\_3PAR\_  
\_Disk\_Stats.MAXAvgWriteIO  
RespTime)  
when 'Minimum of Average  
Write I/O Response Time (m  
s)' then MIN(SH\_SE\_3PAR\_  
\_Disk\_Stats.MINAvgWriteIO  
RespTime)  
when 'Average of Average  
Write I/O Response Time (m  
s)' then AVG(SH\_SE\_3PAR\_  
\_Disk\_Stats.AVGAvgWriteIO

```

RespTime)
when 'Maximum of Average
% Busy' then MAX(SH_SE_3
PAR_Disk_Stats.MAXAvgPerc
entBusy)
when 'Minimum of Average
% Busy' then MIN(SH_SE_3P
AR_Disk_Stats.MINAvgPerce
ntBusy)
else 0
end

```

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: HourlyOLAP Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1rb, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DailyOLAP 3PAR Disk Measures
Description:	

Object: DailyOLAP Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_DISK\_HISTORY\_MEASURE".Measure  
when 'Maximum % Write I/  
Os' then MAX(SD\_SE\_3PAR\_  
Disk\_Stats.MAXPctWriteIOs

```

)
when 'Minimum % Write I/O
s' then MIN(SD_SE_3PAR_Di
sk_Stats.MINPctWriteIOs)
when 'Maximum % Read I/O
s' then MAX(SD_SE_3PAR_Di
sk_Stats.MAXPctReadIOs)
when 'Minimum % Read I/O
s' then MIN(SD_SE_3PAR_Di
sk_Stats.MINPctReadIOs)
when 'Maximum of Average
I/O Response Time (ms)' t
hen MAX(SD_SE_3PAR_Disk_
Stats.MAXAvgIOResponseTi
me)
when 'Minimum of Average
I/O Response Time (ms)' t
hen MIN(SD_SE_3PAR_Disk_
Stats.MINAvgIOResponseTim
e)
when 'Average of Average
I/O Response Time (ms)' t
hen AVG(SD_SE_3PAR_Disk_
Stats.AVGAvgIOResponseTi
me)
when 'Maximum of Average
Queue Depth' then MAX(SD_
SE_3PAR_Disk_Stats.MAXAv
gQueueDepth)
when 'Minimum of Average
Queue Depth' then MIN(SD_
SE_3PAR_Disk_Stats.MINAvg
QueueDepth)
when 'Average of Average
Queue Depth' then AVG(SD_
SE_3PAR_Disk_Stats.AVGAv
gQueueDepth)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SD_SE_3PAR_Disk_Stats.
MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then MI
N(SD_SE_3PAR_Disk_Stats.
MINAvgReadSize)
when 'Average of Average

```



Read Size (Bytes)' then AV  
 G(SD\_SE\_3PAR\_Disk\_Stats.A  
 VGAvgReadSize)  
 when 'Maximum of Average  
 Write Size (Bytes)' then M  
 AX(SD\_SE\_3PAR\_Disk\_Stats.  
 MAXAvgWriteSize)  
 when 'Minimum of Average  
 Write Size (Bytes)' then M  
 IN(SD\_SE\_3PAR\_Disk\_Stats.  
 MINAvgWriteSize)  
 when 'Average of Average  
 Write Size (Bytes)' then A  
 VG(SD\_SE\_3PAR\_Disk\_Stats.  
 AVGAvgWriteSize)  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_Disk\_Stats.  
 MAXReadDataRate)  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then MIN(  
 SD\_SE\_3PAR\_Disk\_Stats.MI  
 NReadDataRate)  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then AVG(  
 SD\_SE\_3PAR\_Disk\_Stats.AV  
 GReadDataRate)  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then MAX(S  
 D\_SE\_3PAR\_Disk\_Stats.MAX  
 ReadRate)  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then AVG(SD  
 \_SE\_3PAR\_Disk\_Stats.MINRe  
 adRate)  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then AVG(SD  
 \_SE\_3PAR\_Disk\_Stats.AVGR  
 eadRate)  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then MAX(  
 SD\_SE\_3PAR\_Disk\_Stats.MA  
 XTotalDataRate)  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then MIN(  
 SD\_SE\_3PAR\_Disk\_Stats.MI

---

```

NTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SD_SE_3PAR_Disk_Stats.AV
GTotalDataRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Disk_Stats.MAX
TotalIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_Disk_Stats.MIN
TotalIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_Disk_Stats.AVG
TotalIORate)
when 'Maximum Write Data
Rate (Bytes/Sec)' then MA
X(SD_SE_3PAR_Disk_Stats.
MAXWriteDataRate)
when 'Minimum Write Data
Rate (Bytes/Sec)' then MI
N(SD_SE_3PAR_Disk_Stats.
MINWriteDataRate)
when 'Average Write Data
Rate (Bytes/Sec)' then AV
G(SD_SE_3PAR_Disk_Stats.A
VGWriteDataRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Disk_Stats.MAX
WriteRate)
when 'Minimum Write I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_Disk_Stats.MIN
WriteRate)
when 'Average Write I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_Disk_Stats.AVG
WriteRate)
when 'Maximum of Average
Read I/O Response Time (m
s)' then MAX(SD_SE_3PAR_
Disk_Stats.MAXAvgReadIOR
espTime)

```

---

```

when 'Minimum of Average
Read I/O Response Time (m
s)' then MIN(SD_SE_3PAR_D
isk_Stats.MINAvgReadIORes
pTime)
when 'Average of Average
Read I/O Response Time (m
s)' then AVG(SD_SE_3PAR_D
isk_Stats.AVGAvgReadIORes
pTime)
when 'Maximum of Average
Write I/O Response Time (
ms)' then MAX(SD_SE_3PAR
_Disk_Stats.MAXAvgWriteIO
RespTime)
when 'Minimum of Average
Write I/O Response Time (
ms)' then MIN(SD_SE_3PAR
_Disk_Stats.MINAvgWriteIO
RespTime)
when 'Average of Average
Write I/O Response Time (
ms)' then AVG(SD_SE_3PAR
_Disk_Stats.AVGAvgWriteIO
RespTime)
when 'Maximum of Average
% Busy' then MAX(SD_SE_3
PAR_Disk_Stats.MAXAvgPerc
entBusy)
when 'Minimum of Average
% Busy' then MIN(SD_SE_3P
AR_Disk_Stats.MINAvgPerc
entBusy)
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object: DailyOLAP Measure

Type: Character

Description:

Select equivalent: "3PAR\_DISK\_HISTORY\_MEASURE".Measure

Where equivalent:

Qualification: dimension

List of values: 1rd, editable, manual refresh, not exportable

Security access level: 0

Can be used: in result, in condition, in sort

Object status: show

Class: 3PAR FC Port Measures

Description:

No objects

Class: Raw 3PAR FC Port Measures

Description:

Object: Raw Aggregate Measure

Type: Number

Description:

Select equivalent: case "3PAR\_PORT\_RAW\_MEASURE".Measure  
 when '% Read I/Os' then SR\_SE\_3PAR\_FCPort\_Stats.PctReadIOs  
 when '% Write I/Os' then SR\_SE\_3PAR\_FCPort\_Stats.PctWriteIOs  
 when 'Average Read Size (Bytes)' then SR\_SE\_3PAR\_FCPort\_Stats.AvgReadSize  
 when 'Average Write Size (Bytes)' then SR\_SE\_3PAR\_FCPort\_Stats.AvgWriteSize  
 when 'Read Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_FCPort\_Stats.ReadDataRate  
 when 'Read I/O Rate (Req/Sec)' then SR\_SE\_3PAR\_FCPort\_Stats.ReadRate  
 when 'Total Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_FCPort\_Stats.TotalDataRate  
 when 'Total I/O Rate (Req

```

/Sec)' then SR_SE_3PAR_FC
Port_Stats.TotalIORate
when 'Write Data Rate (By
tes/Sec)' then SR_SE_3PAR
_FCPort_Stats.WriteDataRa
te
when 'Write I/O Rate (Req
/Sec)' then SR_SE_3PAR_FC
Port_Stats.WriteRate
when 'Delta Read I/Os (Re
q/Sec)' then SR_SE_3PAR_F
CPort_Stats.DeltaReadIOs
when 'Delta Write I/Os (R
eq/Sec)' then SR_SE_3PAR_
FCPort_Stats.DeltaWriteIO
s
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Raw Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_PORT_RAW_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1rf, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	Hourly 3PAR FC Port Measures
Description:	

Object:	Hourly Aggregate Measure
---------	--------------------------

Type:	Number
Description:	
Select equivalent:	<pre> case "3PAR_PORT_HISTORY_MEASURE".Measure when 'Maximum % Read I/Os' then SH_SE_3PAR_FCPort_Stats.MAXPctReadIOs when 'Minimum % Read I/Os' then SH_SE_3PAR_FCPort_Stats.MINPctReadIOs when 'Maximum % Write I/Os' then SH_SE_3PAR_FCPort_Stats.MAXPctWriteIOs when 'Minimum % Write I/Os' then SH_SE_3PAR_FCPort_Stats.MINPctWriteIOs when 'Maximum of Average Read Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.MAXAvgReadSize when 'Minimum of Average Read Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.MINAvgReadSize when 'Average of Average Read Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.AVGAvgReadSize when 'Maximum of Average Write Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.MAXAvgWriteSize when 'Minimum of Average Write Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.MINAvgWriteSize when 'Average of Average Write Size (Bytes)' then SH_SE_3PAR_FCPort_Stats.AVGAvgWriteSize when 'Maximum Read Data Rate (Bytes/Sec)' then SH_SE_3PAR_FCPort_Stats.MAXReadDataRate when 'Minimum Read Data Rate (Bytes/Sec)' then SH_SE_3PAR_FCPort_Stats.MINReadDataRate </pre>

SE\_3PAR\_FCPort\_Stats.MINReadDataRate  
when 'Average Read Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.AVGReadDataRate  
when 'Maximum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MAXReadRate  
when 'Minimum Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MINReadRate  
when 'Average Read I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.AVGReadRate  
when 'Maximum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MAXTotalDataRate  
when 'Minimum Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MINTotalDataRate  
when 'Average Total Data Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.AVGTotalDataRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.AVGTotalIORate  
when 'Maximum Write Data Rate (Bytes/Sec)' then SH\_SE\_3PAR\_FCPort\_Stats.MAXWriteDataRate

---

```
when 'Minimum Write Data
Rate (Bytes/Sec)' then SH
_SE_3PAR_FCPort_Stats.MIN
WriteDataRate
when 'Average Write Data
Rate (Bytes/Sec)' then SH
_SE_3PAR_FCPort_Stats.AVG
WriteDataRate
when 'Maximum Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_FCPort_Stats.MAXWri
teRate
when 'Minimum Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_FCPort_Stats.MINWri
teRate
when 'Average Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_FCPort_Stats.AVGWri
teRate
when 'Maximum Delta Read
I/Os (Req/Sec)' then SH_S
E_3PAR_FCPort_Stats.MAXD
eltaReadIOs
when 'Minimum Delta Read
I/Os (Req/Sec)' then SH_S
E_3PAR_FCPort_Stats.MIND
eltaReadIOs
when 'Average Delta Read
I/Os (Req/Sec)' then SH_S
E_3PAR_FCPort_Stats.AVG
eltaReadIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_FCPort_Stats.MAX
DeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_FCPort_Stats.MIN
DeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_FCPort_Stats.AVG
DeltaWriteIOs
else 0
end
```



Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Hourly Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_PORT\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1rh, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Daily 3PAR FC Port Measures
Description:	

Object: Daily Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_PORT\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1ri, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: Daily Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_PORT\_HISTORY\_MEASURE".Measure

when 'Maximum % Read I/O  
s' then SD\_SE\_3PAR\_FCPort  
\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O  
s' then SD\_SE\_3PAR\_FCPort  
\_Stats.MINPctReadIOs  
when 'Maximum % Write I/  
Os' then SD\_SE\_3PAR\_FCPor  
t\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/O  
s' then SD\_SE\_3PAR\_FCPort  
\_Stats.MINPctWriteIOs  
when 'Maximum of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_FCPort\_Stats.MA  
XAvgReadSize  
when 'Minimum of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_FCPort\_Stats.MIN  
AvgReadSize  
when 'Average of Average  
Read Size (Bytes)' then SD  
\_SE\_3PAR\_FCPort\_Stats.AVG  
AvgReadSize  
when 'Maximum of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_FCPort\_Stats.M  
AXAvgWriteSize  
when 'Minimum of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_FCPort\_Stats.MI  
NAvgWriteSize  
when 'Average of Average  
Write Size (Bytes)' then S  
D\_SE\_3PAR\_FCPort\_Stats.AV  
GAvgWriteSize  
when 'Maximum Read Data  
Rate (Bytes/Sec)' then SD  
\_SE\_3PAR\_FCPort\_Stats.MA  
XReadDataRate  
when 'Minimum Read Data R  
ate (Bytes/Sec)' then SD\_  
SE\_3PAR\_FCPort\_Stats.MINR  
eadDataRate  
when 'Average Read Data R  
ate (Bytes/Sec)' then SD\_

SE\_3PAR\_FCPort\_Stats.AVG  
 ReadDataRate  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then SD\_SE  
 \_3PAR\_FCPort\_Stats.MAXRe  
 adRate  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then SD\_SE\_  
 3PAR\_FCPort\_Stats.MINRead  
 Rate  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then SD\_SE\_  
 3PAR\_FCPort\_Stats.AVGRead  
 Rate  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_FCPort\_Stats.MAXT  
 otalDataRate  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_FCPort\_Stats.MINTo  
 talDataRate  
 when 'Average Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_FCPort\_Stats.AVGTo  
 talDataRate  
 when 'Maximum Total I/O R  
 ate (Req/Sec)' then SD\_SE  
 \_3PAR\_FCPort\_Stats.MAXTot  
 alIORate  
 when 'Minimum Total I/O R  
 ate (Req/Sec)' then SD\_SE  
 \_3PAR\_FCPort\_Stats.MINTot  
 alIORate  
 when 'Average Total I/O R  
 ate (Req/Sec)' then SD\_SE  
 \_3PAR\_FCPort\_Stats.AVGTot  
 alIORate  
 when 'Maximum Write Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_FCPort\_Stats.MA  
 XWriteDataRate  
 when 'Minimum Write Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_FCPort\_Stats.MIN  
 WriteDataRate

```

when 'Average Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_FCPort_Stats.AVG
WriteDataRate
when 'Maximum Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_FCPort_Stats.MAXWri
teRate
when 'Minimum Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_FCPort_Stats.MINWri
teRate
when 'Average Write I/O R
ate (Req/Sec)' then SD_SE
_3PAR_FCPort_Stats.AVGWri
teRate
when 'Maximum Delta Read
I/Os (Req/Sec)' then SD_S
E_3PAR_FCPort_Stats.MAXD
eltaReadIOs
when 'Minimum Delta Read
I/Os (Req/Sec)' then SD_S
E_3PAR_FCPort_Stats.MIND
eltaReadIOs
when 'Average Delta Read
I/Os (Req/Sec)' then SD_S
E_3PAR_FCPort_Stats.AVG
DeltaReadIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_FCPort_Stats.MAX
DeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_FCPort_Stats.MIN
DeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_FCPort_Stats.AVG
DeltaWriteIOs
else 0
end

```

Where equivalent:

Qualification: measure

Aggregate function: None

List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class:	HourlyOLAP 3PAR FC Port Measures
Description:	

Object: HourlyOLAP Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_PORT\_HISTORY\_MEASURE".Measure  
 when 'Maximum % Read I/O  
 s' then MAX(SH\_SE\_3PAR\_FC  
 CPort\_Stats.MAXPctReadIOs  
 )  
 when 'Minimum % Read I/O  
 s' then MIN(SH\_SE\_3PAR\_FC  
 Port\_Stats.MINPctReadIOs)  
 when 'Maximum % Write I/  
 Os' then MAX(SH\_SE\_3PAR\_  
 FCPort\_Stats.MAXPctWriteI  
 Os)  
 when 'Minimum % Write I/O  
 s' then MIN(SH\_SE\_3PAR\_FC  
 Port\_Stats.MINPctWriteIOs  
 )  
 when 'Maximum of Average  
 Read Size (Bytes)' then M  
 AX(SH\_SE\_3PAR\_FCPort\_Sta  
 ts.MAXAvgReadSize)  
 when 'Minimum of Average  
 Read Size (Bytes)' then MI  
 N(SH\_SE\_3PAR\_FCPort\_Stat  
 s.MINAvgReadSize)  
 when 'Average of Average  
 Read Size (Bytes)' then AV  
 G(SH\_SE\_3PAR\_FCPort\_Stat  
 s.AVGAvgReadSize)  
 when 'Maximum of Average  
 Write Size (Bytes)' then M  
 AX(SH\_SE\_3PAR\_FCPort\_Sta  
 ts.MAXAvgWriteSize)  
 when 'Minimum of Average

Write Size (Bytes)' then M  
 IN(SH\_SE\_3PAR\_FCPort\_Stats.MINAvgWriteSize)  
 when 'Average of Average  
 Write Size (Bytes)' then A  
 VG(SH\_SE\_3PAR\_FCPort\_Stats.AVGAvgWriteSize)  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then MA  
 X(SH\_SE\_3PAR\_FCPort\_Stats  
 .MAXReadDataRate)  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then MIN(  
 SH\_SE\_3PAR\_FCPort\_Stats.  
 MINReadDataRate)  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then AVG(  
 SH\_SE\_3PAR\_FCPort\_Stats.A  
 VGReadDataRate)  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then MAX(S  
 H\_SE\_3PAR\_FCPort\_Stats.M  
 AXReadRate)  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then MIN(SH  
 \_SE\_3PAR\_FCPort\_Stats.MIN  
 ReadRate)  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then AVG(SH  
 \_SE\_3PAR\_FCPort\_Stats.AVG  
 ReadRate)  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then MAX(  
 SH\_SE\_3PAR\_FCPort\_Stats.  
 MAXTotalDataRate)  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then MIN(  
 SH\_SE\_3PAR\_FCPort\_Stats.  
 MINTotalDataRate)  
 when 'Average Total Data  
 Rate (Req/Sec)' then AVG(  
 SH\_SE\_3PAR\_FCPort\_Stats.A  
 VGTotatDataRate)  
 when 'Maximum Total I/O R  
 ate (Req/Sec)' then MAX(S  
 H\_SE\_3PAR\_FCPort\_Stats.M

AXTotalIORate)  
when 'Minimum Total I/O R  
ate (Req/Sec)' then MIN(S  
H\_SE\_3PAR\_FCPort\_Stats.MI  
NTotalIORate)  
when 'Average Total I/O R  
ate (Req/Sec)' then AVG(S  
H\_SE\_3PAR\_FCPort\_Stats.AV  
GTotalIORate)  
when 'Maximum Write Data  
Rate (Bytes/Sec)' then MA  
X(SH\_SE\_3PAR\_FCPort\_Stats  
.MAXWriteDataRate)  
when 'Minimum Write Data  
Rate (Bytes/Sec)' then MI  
N(SH\_SE\_3PAR\_FCPort\_Stat  
s.MINWriteDataRate)  
when 'Average Write Data  
Rate (Bytes/Sec)' then AV  
G(SH\_SE\_3PAR\_FCPort\_Stat  
s.AVGWriteDataRate)  
when 'Maximum Write I/O R  
ate (Req/Sec)' then MAX(S  
H\_SE\_3PAR\_FCPort\_Stats.M  
AXWriteRate)  
when 'Minimum Write I/O R  
ate (Req/Sec)' then MIN(S  
H\_SE\_3PAR\_FCPort\_Stats.MI  
NWriteRate)  
when 'Average Write I/O R  
ate (Req/Sec)' then AVG(S  
H\_SE\_3PAR\_FCPort\_Stats.AV  
GWriteRate)  
when 'Maximum Delta Read  
I/Os (Req/Sec)' then MAX(  
SH\_SE\_3PAR\_FCPort\_Stats.  
MAXDeltaReadIOs)  
when 'Minimum Delta Read  
I/Os (Req/Sec)' then MIN(  
SH\_SE\_3PAR\_FCPort\_Stats.  
MINDeltaReadIOs)  
when 'Average Delta Read  
I/Os (Req/Sec)' then AVG(  
SH\_SE\_3PAR\_FCPort\_Stats.A  
VGDeltaReadIOs)  
when 'Maximum Delta Write

```
I/Os (Req/Sec)' then MAX
(SH_SE_3PAR_FCPort_Stats.
MAXDeltaWriteI/Os)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SH_SE_3PAR_FCPort_Stats.
MINDeltaWriteI/Os)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SH_SE_3PAR_FCPort_Stats.
AVGDeltaWriteI/Os)
else 0
end
```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	HourlyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_PORT_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1rl, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	DailyOLAP 3PAR FC Port Measures
Description:	

Object:	DailyOLAP Aggregate Measure
Type:	Number
Description:	

Select equivalent:	case "3PAR_PORT_HISTORY_MEASURE".Measure when 'Maximum % Read I/O
--------------------	--



```

s' then MAX(SD_SE_3PAR_FCPort_Stats.MAXPctReadIOs
)
when 'Minimum % Read I/O
s' then MIN(SD_SE_3PAR_FCPort_Stats.MINPctReadIOs)
when 'Maximum % Write I/Os' then MAX(SD_SE_3PAR_FCPort_Stats.MAXPctWriteIOs)
when 'Minimum % Write I/Os' then MIN(SD_SE_3PAR_FCPort_Stats.MINPctWriteIOs)
)
when 'Maximum of Average Read Size (Bytes)' then MAX(SD_SE_3PAR_FCPort_Stats.MAXAvgReadSize)
when 'Minimum of Average Read Size (Bytes)' then MIN(SD_SE_3PAR_FCPort_Stats.MINAvgReadSize)
when 'Average of Average Read Size (Bytes)' then AVG(SD_SE_3PAR_FCPort_Stats.AVGAvgReadSize)
when 'Maximum of Average Write Size (Bytes)' then MAX(SD_SE_3PAR_FCPort_Stats.MAXAvgWriteSize)
when 'Minimum of Average Write Size (Bytes)' then MIN(SD_SE_3PAR_FCPort_Stats.MINAvgWriteSize)
when 'Average of Average Write Size (Bytes)' then AVG(SD_SE_3PAR_FCPort_Stats.AVGAvgWriteSize)
when 'Maximum Read Data Rate (Bytes/Sec)' then MAX(SD_SE_3PAR_FCPort_Stats.MAXReadDataRate)
when 'Minimum Read Data Rate (Bytes/Sec)' then MIN(SD_SE_3PAR_FCPort_Stats.MINReadDataRate)

```

---

```

when 'Average Read Data R
ate (Bytes/Sec)' then AVG(
SD_SE_3PAR_FCPort_Stats.A
VGReadDataRate)
when 'Maximum Read I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_FCPort_Stats.M
AXReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_FCPort_Stats.MIN
ReadRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_FCPort_Stats.AVG
ReadRate)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SD_SE_3PAR_FCPort_Stats.
MAXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SD_SE_3PAR_FCPort_Stats.
MINTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SD_SE_3PAR_FCPort_Stats.A
VGTotlDataRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_FCPort_Stats.M
AXTotlIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_FCPort_Stats.MI
NTotlIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_FCPort_Stats.AV
GTotlIORate)
when 'Maximum Write Data
Rate (Bytes/Sec)' then MA
X(SD_SE_3PAR_FCPort_Stats
.MAXWriteDataRate)
when 'Minimum Write Data
Rate (Bytes/Sec)' then MI

```

---

```

N(SD_SE_3PAR_FCPort_Stat
s.MINWriteDataRate)
when 'Average Write Data
Rate (Bytes/Sec)' then AV
G(SD_SE_3PAR_FCPort_Stat
s.AVGWriteDataRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_FCPort_Stats.M
AXWriteRate)
when 'Minimum Write I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_FCPort_Stats.MI
NWriteRate)
when 'Average Write I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_FCPort_Stats.AV
GWriteRate)
when 'Maximum Delta Read
I/Os (Req/Sec)' then MAX(
SD_SE_3PAR_FCPort_Stats.
MAXDeltaReadIOs)
when 'Minimum Delta Read
I/Os (Req/Sec)' then MIN(
SD_SE_3PAR_FCPort_Stats.
MINDeltaReadIOs)
when 'Average Delta Read
I/Os (Req/Sec)' then AVG(
SD_SE_3PAR_FCPort_Stats.A
VGDeltaReadIOs)
when 'Maximum Delta Write
I/Os (Req/Sec)' then MAX
(SD_SE_3PAR_FCPort_Stats.
MAXDeltaWriteIOs)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SD_SE_3PAR_FCPort_Stats.
MINDeltaWriteIOs)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SD_SE_3PAR_FCPort_Stats.
AVGDeltaWriteIOs)
else 0
end

```

Where equivalent:

---

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	DailyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_PORT_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1rn, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	3PAR AVG Storage System Volume Measures
Description:	

No objects

Class:	Raw 3PAR AVG Storage System Volume Measures
Description:	

Object:	Raw Aggregate Measure
Type:	Number
Description:	

Select equivalent:	case "3PAR_VOLUME_RAW_MEASURE".Measure when 'Write Data Rate (Bytes/Sec)' then SR_SE_3PAR_SSAGVol_Stats.WriteDataRate when 'Read Data Rate (Bytes/Sec)' then SR_SE_3PAR_SSAGVol_Stats.ReadDataRate when 'Total Data Rate (Req/Sec)' then SR_SE_3PAR_S
--------------------	--

SAGVol\_Stats.TotalDataRate  
 when 'Read Hit Rate (Req/Sec)' then SR\_SE\_3PAR\_SSAGVol\_Stats.ReadHitRate  
 when 'Average Read Size (Bytes)' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgReadSize  
 when 'Average Write Size (Bytes)' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgWriteSize  
 when '% Read I/Os' then SR\_SE\_3PAR\_SSAGVol\_Stats.PctReadI/Os  
 when '% Write I/Os' then SR\_SE\_3PAR\_SSAGVol\_Stats.PctWriteI/Os  
 when '% Hit Rate' then SR\_SE\_3PAR\_SSAGVol\_Stats.PctHitRate  
 when 'Write I/O Rate (Req/Sec)' then SR\_SE\_3PAR\_SSAGVol\_Stats.WriteRate  
 when 'Read I/O Rate (Req/Sec)' then SR\_SE\_3PAR\_SSAGVol\_Stats.ReadRate  
 when 'Total I/O Rate (Req/Sec)' then SR\_SE\_3PAR\_SSAGVol\_Stats.TotalI/ORate  
 when 'Average I/O Response Time (ms)' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgI/OResponseTime  
 when 'Average Read I/O Response Time (ms)' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgReadI/OResponseTime  
 when 'Average Write I/O Response Time (ms)' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgWriteI/OResponseTime  
 when 'Average % Busy' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgPercentBusy  
 when 'Average Queue Depth' then SR\_SE\_3PAR\_SSAGVol\_Stats.AvgQueueDepth  
 when 'Delta Read Hit I/Os (Req/Sec)' then SR\_SE\_3PAR\_SSAGVol\_Stats.DeltaReadHitI/Os

```
when 'Delta Write I/Os (R
eq/Sec)' then SR_SE_3PAR_
SSAGVol_Stats.DeltaWriteI
Os
else 0
end
```

Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Object: Raw Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_RAW\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qk, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	Hourly 3PAR AVG Storage System Volume Measures
Description:	

Object: Hourly Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
when 'Maximum Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_SSAGVol\_Stats.M  
AXWriteDataRate  
when 'Minimum Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_SSAGVol\_Stats.M  
INWriteDataRate

when 'Average Write Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_SSAGVol\_Stats.A  
VGWriteDataRate  
when 'Maximum Read Data  
Rate (Bytes/Sec)' then SH  
\_SE\_3PAR\_SSAGVol\_Stats.M  
AXReadDataRate  
when 'Minimum Read Data R  
ate (Bytes/Sec)' then SH\_  
SE\_3PAR\_SSAGVol\_Stats.MI  
NReadDataRate  
when 'Average Read Data R  
ate (Bytes/Sec)' then SH\_  
SE\_3PAR\_SSAGVol\_Stats.AV  
GReadDataRate  
when 'Maximum Total Data  
Rate (Req/Sec)' then SH\_S  
E\_3PAR\_SSAGVol\_Stats.MAX  
TotalDataRate  
when 'Minimum Total Data  
Rate (Req/Sec)' then SH\_S  
E\_3PAR\_SSAGVol\_Stats.MIN  
TotalDataRate  
when 'Average Total Data  
Rate (Req/Sec)' then SH\_S  
E\_3PAR\_SSAGVol\_Stats.AVG  
TotalDataRate  
when 'Maximum Read Hit Ra  
te (Req/Sec)' then SH\_SE\_  
3PAR\_SSAGVol\_Stats.MAXRe  
adHitRate  
when 'Minimum Read Hit Ra  
te (Req/Sec)' then SH\_SE\_  
3PAR\_SSAGVol\_Stats.MINRe  
adHitRate  
when 'Average Read Hit Ra  
te (Req/Sec)' then SH\_SE\_  
3PAR\_SSAGVol\_Stats.AVGRe  
adHitRate  
when 'Maximum of Average  
Read Size (Bytes)' then SH  
\_SE\_3PAR\_SSAGVol\_Stats.M  
AXAvgReadSize  
when 'Minimum of Average  
Read Size (Bytes)' then SH

\_SE\_3PAR\_SSAGVol\_Stats.M  
 INAvgReadSize  
 when 'Average of Average  
 Read Size (Bytes)' then SH  
 \_SE\_3PAR\_SSAGVol\_Stats.A  
 VGAvgReadSize  
 when 'Maximum of Average  
 Write Size (Bytes)' then S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXAvgWriteSize  
 when 'Minimum of Average  
 Write Size (Bytes)' then S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 MINAvgWriteSize  
 when 'Average of Average  
 Write Size (Bytes)' then S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 AVGAvgWriteSize  
 when 'Maximum % Write I/  
 Os' then SH\_SE\_3PAR\_SSAG  
 Vol\_Stats.MAXPctWriteIOs  
 when 'Minimum % Write I/O  
 s' then SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MINPctWriteIOs  
 when 'Maximum % Read I/O  
 s' then SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MAXPctReadIOs  
 when 'Minimum % Read I/O  
 s' then SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MINPctReadIOs  
 when 'Maximum % Hit Rate'  
 then SH\_SE\_3PAR\_SSAGVol  
 \_Stats.MAXPctHitRate  
 when 'Minimum % Hit Rate'  
 then SH\_SE\_3PAR\_SSAGVol  
 \_Stats.MINPctHitRate  
 when 'Maximum Write I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.MAXW  
 riteRate  
 when 'Minimum Write I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.MINW  
 riteRate  
 when 'Average Write I/O R  
 ate (Req/Sec)' then SH\_SE



\_3PAR\_SSAGVol\_Stats.AVGW  
 riteRate  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.MAXR  
 eadRate  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then SH\_SE\_  
 3PAR\_SSAGVol\_Stats.MINRe  
 adRate  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then SH\_SE\_  
 3PAR\_SSAGVol\_Stats.AVGRe  
 adRate  
 when 'Maximum Total I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.MAXT  
 otalIORate  
 when 'Minimum Total I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.MINT  
 otalIORate  
 when 'Average Total I/O R  
 ate (Req/Sec)' then SH\_SE  
 \_3PAR\_SSAGVol\_Stats.AVGT  
 otalIORate  
 when 'Maximum of Average  
 I/O Response Time (ms)' t  
 hen SH\_SE\_3PAR\_SSAGVol\_S  
 tats.MAXAvgIOResponseTim  
 e  
 when 'Minimum of Average  
 I/O Response Time (ms)' t  
 hen SH\_SE\_3PAR\_SSAGVol\_S  
 tats.MINAvgIOResponseTime  
 when 'Average of Average  
 I/O Response Time (ms)' t  
 hen SH\_SE\_3PAR\_SSAGVol\_S  
 tats.AVGAvgIOResponseTim  
 e  
 when 'Maximum of Average  
 Read I/O Response Time (m  
 s)' then SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MAXAvgReadIOResp  
 Time  
 when 'Minimum of Average

Read I/O Response Time (m  
s)' then SH\_SE\_3PAR\_SSAGV  
ol\_Stats.MINAvgReadIOResp  
Time  
when 'Average of Average  
Read I/O Response Time (m  
s)' then SH\_SE\_3PAR\_SSAGV  
ol\_Stats.AVGAvgReadIOResp  
Time  
when 'Maximum of Average  
Write I/O Response Time (m  
s)' then SH\_SE\_3PAR\_SSA  
GVol\_Stats.MAXAvgWriteIOR  
espTime  
when 'Minimum of Average  
Write I/O Response Time (m  
s)' then SH\_SE\_3PAR\_SSA  
GVol\_Stats.MINAvgWriteIOR  
espTime  
when 'Average of Average  
Write I/O Response Time (m  
s)' then SH\_SE\_3PAR\_SSA  
GVol\_Stats.AVGAvgWriteIOR  
espTime  
when 'Maximum of Average  
% Busy' then SH\_SE\_3PAR\_  
SSAGVol\_Stats.MAXAvgPerce  
ntBusy  
when 'Minimum of Average  
% Busy' then SH\_SE\_3PAR\_  
SSAGVol\_Stats.MINAvgPerce  
ntBusy  
when 'Maximum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_SSAGVol\_Stats.MAXAvg  
QueueDepth  
when 'Minimum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_SSAGVol\_Stats.MINAvg  
QueueDepth  
when 'Average of Average  
Queue Depth' then SH\_SE\_3  
PAR\_SSAGVol\_Stats.AVGAvg  
QueueDepth  
when 'Maximum Delta Read  
Hit I/Os (Req/Sec)' then S

```

H_SE_3PAR_SSAGVol_Stats.
MAXDeltaReadHitIOs
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then S
H_SE_3PAR_SSAGVol_Stats.
MINDeltaReadHitIOs
when 'Average Delta Read
Hit I/Os (Req/Sec)' then S
H_SE_3PAR_SSAGVol_Stats.
AVGDeltaReadHitIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_SSAGVol_Stats.MA
XDeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_SSAGVol_Stats.MI
NDeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_SSAGVol_Stats.AV
GDeltaWriteIOs
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hourly Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1qm, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:

Daily 3PAR AVG Storage System Volume Measures

Description:

Object:

Daily Aggregate Measure

Type:

Number

Description:

Select equivalent:

```

case "3PAR_VOLUME_HISTORY_MEASURE".Measure
when 'Maximum Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_SSAGVol_Stats.M
AXWriteDataRate
when 'Minimum Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_SSAGVol_Stats.M
INWriteDataRate
when 'Average Write Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_SSAGVol_Stats.A
VGWriteDataRate
when 'Maximum Read Data
Rate (Bytes/Sec)' then SD
_SE_3PAR_SSAGVol_Stats.M
AXReadDataRate
when 'Minimum Read Data R
ate (Bytes/Sec)' then SD_
SE_3PAR_SSAGVol_Stats.MI
NReadDataRate
when 'Average Read Data R
ate (Bytes/Sec)' then SD_
SE_3PAR_SSAGVol_Stats.AV
GReadDataRate
when 'Maximum Total Data
Rate (Req/Sec)' then SD_S
E_3PAR_SSAGVol_Stats.MAX
TotalDataRate
when 'Minimum Total Data
Rate (Req/Sec)' then SD_S
E_3PAR_SSAGVol_Stats.MIN
TotalDataRate
when 'Average Total Data
Rate (Req/Sec)' then SD_S
E_3PAR_SSAGVol_Stats.AVG
TotalDataRate

```

---

when 'Maximum Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXReadHitRate

when 'Minimum Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINReadHitRate

when 'Average Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGReadHitRate

when 'Maximum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgReadSize

when 'Minimum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINAvgReadSize

when 'Average of Average Read Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgReadSize

when 'Maximum of Average Write Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXAvgWriteSize

when 'Minimum of Average Write Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINAvgWriteSize

when 'Average of Average Write Size (Bytes)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGAvgWriteSize

when 'Maximum % Write I/Os' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXPctWriteIOs

when 'Minimum % Write I/Os' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINPctWriteIOs

when 'Maximum % Read I/Os' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXPctReadIOs

when 'Minimum % Read I/O

s' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINPctReadIOs  
when 'Maximum % Hit Rate' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXPctHitRate  
when 'Minimum % Hit Rate' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINPctHitRate  
when 'Maximum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXWriteRate  
when 'Minimum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINWriteRate  
when 'Average Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGWriteRate  
when 'Maximum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXReadRate  
when 'Minimum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINReadRate  
when 'Average Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGReadRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_SSAGVol\_Stats.AVGTotalIORate  
when 'Maximum of Average I/O Response Time (ms)' then

```

hen SD_SE_3PAR_SSAGVol_S
tats.MAXAvgIOResponseTim
e
when 'Minimum of Average
I/O Response Time (ms)' t
hen SD_SE_3PAR_SSAGVol_S
tats.MINAvgIOResponseTime
when 'Average of Average
I/O Response Time (ms)' t
hen SD_SE_3PAR_SSAGVol_S
tats.AVGAvgIOResponseTim
e
when 'Maximum of Average
Read I/O Response Time (m
s)' then SD_SE_3PAR_SSAGV
ol_Stats.MAXAvgReadIOResp
Time
when 'Minimum of Average
Read I/O Response Time (m
s)' then SD_SE_3PAR_SSAGV
ol_Stats.MINAvgReadIOResp
Time
when 'Average of Average
Read I/O Response Time (m
s)' then SD_SE_3PAR_SSAGV
ol_Stats.AVGAvgReadIOResp
Time
when 'Maximum of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_SSA
GVol_Stats.MAXAvgWriteIOR
espTime
when 'Minimum of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_SSA
GVol_Stats.MINAvgWriteIOR
espTime
when 'Average of Average
Write I/O Response Time (
ms)' then SD_SE_3PAR_SSA
GVol_Stats.AVGAvgWriteIOR
espTime
when 'Maximum of Average
% Busy' then SD_SE_3PAR_
SSAGVol_Stats.MAXAvgPerce
ntBusy

```

```

when 'Minimum of Average
% Busy' then SD_SE_3PAR_
SSAGVol_Stats.MINAvgPerce
ntBusy
when 'Maximum of Average
Queue Depth' then SD_SE_3
PAR_SSAGVol_Stats.MAXAvg
QueueDepth
when 'Minimum of Average
Queue Depth' then SD_SE_3
PAR_SSAGVol_Stats.MINAvg
QueueDepth
when 'Average of Average
Queue Depth' then SD_SE_3
PAR_SSAGVol_Stats.AVGAvg
QueueDepth
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_SSAGVol_Stats.
MAXDeltaReadHitIOs
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_SSAGVol_Stats.
MINDeltaReadHitIOs
when 'Average Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_SSAGVol_Stats.
AVGDeltaReadHitIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_SSAGVol_Stats.MA
XDeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_SSAGVol_Stats.MI
NDeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_SSAGVol_Stats.AV
GDeltaWriteIOs
else 0
end

```

Where equivalent:

Qualification: measure

Aggregate function: None



---

List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Daily Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1qn, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

Class:	HourlyOLAP 3PAR AVG Storage System Volume Measures
Description:	

Object:	HourlyOLAP Aggregate Measure
Type:	Number
Description:	

Select equivalent:	case "3PAR_VOLUME_HISTORY_MEASURE".Measure when 'Maximum Write Data Rate (Bytes/Sec)' then MA X(SH_SE_3PAR_SSAGVol_Sta ts.MAXWriteDataRate) when 'Minimum Write Data Rate (Bytes/Sec)' then MI N(SH_SE_3PAR_SSAGVol_Sta ts.MINWriteDataRate) when 'Average Write Data Rate (Bytes/Sec)' then AV G(SH_SE_3PAR_SSAGVol_Sta ts.AVGWriteDataRate) when 'Maximum Read Data Rate (Bytes/Sec)' then MA X(SH_SE_3PAR_SSAGVol_Sta ts.MAXReadDataRate)
--------------------	--

---

```

when 'Minimum Read Data R
ate (Bytes/Sec)' then MIN(
SH_SE_3PAR_SSAGVol_Stats
.MINReadDataRate)
when 'Average Read Data R
ate (Bytes/Sec)' then AVG(
SH_SE_3PAR_SSAGVol_Stats
.AVGReadDataRate)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SH_SE_3PAR_SSAGVol_Stats
.MAXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SH_SE_3PAR_SSAGVol_Stats
.MINTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SH_SE_3PAR_SSAGVol_Stats
.AVGTotalDataRate)
when 'Maximum Read Hit Ra
te (Req/Sec)' then MAX(SH
_SE_3PAR_SSAGVol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SH
_SE_3PAR_SSAGVol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_SSAGVol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SH_SE_3PAR_SSAGVol_St
ats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then M
IN(SH_SE_3PAR_SSAGVol_Sta
ts.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV
G(SH_SE_3PAR_SSAGVol_Sta
ts.AVGAvgReadSize)
when 'Maximum of Average
Write Size (Bytes)' then M

```

---

```

AX(SH_SE_3PAR_SSAGVol_Stats.MAXAvgWriteSize)
when 'Minimum of Average
Write Size (Bytes)' then MIN(SH_SE_3PAR_SSAGVol_Stats.MINAvgWriteSize)
when 'Average of Average
Write Size (Bytes)' then AVG(SH_SE_3PAR_SSAGVol_Stats.AVGAvgWriteSize)
when 'Maximum % Write I/Os' then MAX(SH_SE_3PAR_SSAGVol_Stats.MAXPctWriteIOs)
when 'Minimum % Write I/Os' then MIN(SH_SE_3PAR_SSAGVol_Stats.MINPctWriteIOs)
when 'Maximum % Read I/Os' then MAX(SH_SE_3PAR_SSAGVol_Stats.MAXPctReadIOs)
when 'Minimum % Read I/Os' then MIN(SH_SE_3PAR_SSAGVol_Stats.MINPctReadIOs)
)
when 'Maximum % Hit Rate' then MAX(SH_SE_3PAR_SSAGVol_Stats.MAXPctHitRate)
when 'Minimum % Hit Rate' then MIN(SH_SE_3PAR_SSAGVol_Stats.MINPctHitRate)
when 'Maximum Write I/O Rate (Req/Sec)' then MAX(SH_SE_3PAR_SSAGVol_Stats.MAXWriteRate)
when 'Minimum Write I/O Rate (Req/Sec)' then MIN(SH_SE_3PAR_SSAGVol_Stats.MINWriteRate)
when 'Average Write I/O Rate (Req/Sec)' then AVG(SH_SE_3PAR_SSAGVol_Stats.AVGWriteRate)
when 'Maximum Read I/O Rate (Req/Sec)' then MAX(SH_SE_3PAR_SSAGVol_Stats.MAXReadRate)

```

H\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXReadRate)  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then MIN(SH  
 \_SE\_3PAR\_SSAGVol\_Stats.M  
 INReadRate)  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then AVG(SH  
 \_SE\_3PAR\_SSAGVol\_Stats.A  
 VGReadRate)  
 when 'Maximum Total I/O R  
 ate (Req/Sec)' then MAX(S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXTotalIORate)  
 when 'Minimum Total I/O R  
 ate (Req/Sec)' then MIN(S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 MINTotalIORate)  
 when 'Average Total I/O R  
 ate (Req/Sec)' then AVG(S  
 H\_SE\_3PAR\_SSAGVol\_Stats.  
 AVGTotalIORate)  
 when 'Maximum of Average  
 I/O Response Time (ms)' t  
 hen MAX(SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MAXAvgIOResponse  
 Time)  
 when 'Minimum of Average  
 I/O Response Time (ms)' t  
 hen MIN(SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.MINAvgIOResponse  
 Time)  
 when 'Average of Average  
 I/O Response Time (ms)' t  
 hen AVG(SH\_SE\_3PAR\_SSAGV  
 ol\_Stats.AVGAvgIOResponse  
 Time)  
 when 'Maximum of Average  
 Read I/O Response Time (m  
 s)' then MAX(SH\_SE\_3PAR\_S  
 SAGVol\_Stats.MAXAvgReadI  
 ORespTime)  
 when 'Minimum of Average  
 Read I/O Response Time (m  
 s)' then MIN(SH\_SE\_3PAR\_S  
 SAGVol\_Stats.MINAvgReadI

```

ORespTime)
when 'Average of Average
Read I/O Response Time (m
s)' then AVG(SH_SE_3PAR_S
SAGVol_Stats.AVGAvgReadI
ORespTime)
when 'Maximum of Average
Write I/O Response Time (
ms)' then MAX(SH_SE_3PAR
_SSAGVol_Stats.MAXAvgWrit
elORespTime)
when 'Minimum of Average
Write I/O Response Time (
ms)' then MIN(SH_SE_3PAR
_SSAGVol_Stats.MINAvgWrit
elORespTime)
when 'Average of Average
Write I/O Response Time (
ms)' then AVG(SH_SE_3PAR
_SSAGVol_Stats.AVGAvgWrit
elORespTime)
when 'Maximum of Average
% Busy' then MAX(SH_SE_3
PAR_SSAGVol_Stats.MAXAvg
PercentBusy)
when 'Minimum of Average
% Busy' then MIN(SH_SE_3P
AR_SSAGVol_Stats.MINAvgP
ercentBusy)
when 'Maximum of Average
Queue Depth' then MAX(SH_
SE_3PAR_SSAGVol_Stats.MA
XAvgQueueDepth)
when 'Minimum of Average
Queue Depth' then MIN(SH_
SE_3PAR_SSAGVol_Stats.MI
NAvgQueueDepth)
when 'Average of Average
Queue Depth' then AVG(SH_
SE_3PAR_SSAGVol_Stats.AV
GAvgQueueDepth)
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then M
AX(SH_SE_3PAR_SSAGVol_St
ats.MAXDeltaReadHitIOs)
when 'Minimum Delta Read

```

```

Hit I/Os (Req/Sec)' then M
IN(SH_SE_3PAR_SSAGVol_St
ats.MINDeltaReadHitIOs)
when 'Average Delta Read
Hit I/Os (Req/Sec)' then A
VG(SH_SE_3PAR_SSAGVol_St
ats.AVGDeltaReadHitIOs)
when 'Maximum Delta Write
I/Os (Req/Sec)' then MAX
(SH_SE_3PAR_SSAGVol_Stat
s.MAXDeltaWriteIOs)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SH_SE_3PAR_SSAGVol_Stats
.MINDeltaWriteIOs)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SH_SE_3PAR_SSAGVol_Stat
s.AVGDeltaWriteIOs)
else 0
end

```

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: HourlyOLAP Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qq, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class:	DailyOLAP 3PAR AVG S torage System Volume
--------	--

## Measures

Description:

Object: DailyOLAP Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
 when 'Maximum Write Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_SSAGVol\_Sta  
 ts.MAXWriteDataRate)  
 when 'Minimum Write Data  
 Rate (Bytes/Sec)' then MI  
 N(SD\_SE\_3PAR\_SSAGVol\_Sta  
 ts.MINWriteDataRate)  
 when 'Average Write Data  
 Rate (Bytes/Sec)' then AV  
 G(SD\_SE\_3PAR\_SSAGVol\_Sta  
 ts.AVGWriteDataRate)  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_SSAGVol\_Sta  
 ts.MAXReadDataRate)  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then MIN(  
 SD\_SE\_3PAR\_SSAGVol\_Stats  
 .MINReadDataRate)  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then AVG(  
 SD\_SE\_3PAR\_SSAGVol\_Stats  
 .AVGReadDataRate)  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then MAX(  
 SD\_SE\_3PAR\_SSAGVol\_Stats  
 .MAXTotalDataRate)  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then MIN(  
 SD\_SE\_3PAR\_SSAGVol\_Stats  
 .MINTotalDataRate)  
 when 'Average Total Data  
 Rate (Req/Sec)' then AVG(  
 SD\_SE\_3PAR\_SSAGVol\_Stats  
 .AVGTotalDataRate)  
 when 'Maximum Read Hit Ra

```

te (Req/Sec)' then MAX(SD
_SE_3PAR_SSAGVol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_SSAGVol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_SSAGVol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SD_SE_3PAR_SSAGVol_St
ats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then MI
N(SD_SE_3PAR_SSAGVol_Sta
ts.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV
G(SD_SE_3PAR_SSAGVol_Sta
ts.AVGAvgReadSize)
when 'Maximum of Average
Write Size (Bytes)' then M
AX(SD_SE_3PAR_SSAGVol_St
ats.MAXAvgWriteSize)
when 'Minimum of Average
Write Size (Bytes)' then M
IN(SD_SE_3PAR_SSAGVol_St
ats.MINAvgWriteSize)
when 'Average of Average
Write Size (Bytes)' then A
VG(SD_SE_3PAR_SSAGVol_St
ats.AVGAvgWriteSize)
when 'Maximum % Write I/
Os' then MAX(SD_SE_3PAR_
SSAGVol_Stats.MAXPctWrite
IOs)
when 'Minimum % Write I/O
s' then MIN(SD_SE_3PAR_SS
AGVol_Stats.MINPctWriteIO
s)
when 'Maximum % Read I/O
s' then MAX(SD_SE_3PAR_S
SAGVol_Stats.MAXPctReadIO

```



s)  
 when 'Minimum % Read I/O  
 s' then MIN(SD\_SE\_3PAR\_SS  
 AGVol\_Stats.MINPctReadIOs  
 )  
 when 'Maximum % Hit Rate'  
 then MAX(SD\_SE\_3PAR\_SSA  
 GVol\_Stats.MAXPctHitRate)  
 when 'Minimum % Hit Rate'  
 then MIN(SD\_SE\_3PAR\_SSA  
 GVol\_Stats.MINPctHitRate)  
 when 'Maximum Write I/O R  
 ate (Req/Sec)' then MAX(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXWriteRate)  
 when 'Minimum Write I/O R  
 ate (Req/Sec)' then MIN(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 MINWriteRate)  
 when 'Average Write I/O R  
 ate (Req/Sec)' then AVG(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 AVGWriteRate)  
 when 'Maximum Read I/O R  
 ate (Req/Sec)' then MAX(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXReadRate)  
 when 'Minimum Read I/O Ra  
 te (Req/Sec)' then MIN(SD  
 \_SE\_3PAR\_SSAGVol\_Stats.M  
 INReadRate)  
 when 'Average Read I/O Ra  
 te (Req/Sec)' then AVG(SD  
 \_SE\_3PAR\_SSAGVol\_Stats.A  
 VGReadRate)  
 when 'Maximum Total I/O R  
 ate (Req/Sec)' then MAX(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 MAXTotalIORate)  
 when 'Minimum Total I/O R  
 ate (Req/Sec)' then MIN(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.  
 MINTotalIORate)  
 when 'Average Total I/O R  
 ate (Req/Sec)' then AVG(S  
 D\_SE\_3PAR\_SSAGVol\_Stats.

AVGTotallORate)  
when 'Maximum of Average  
I/O Response Time (ms)' t  
hen MAX(SD\_SE\_3PAR\_SSAGV  
ol\_Stats.MAXAvgIOResponse  
Time)  
when 'Minimum of Average  
I/O Response Time (ms)' t  
hen MIN(SD\_SE\_3PAR\_SSAGV  
ol\_Stats.MINAvgIOResponse  
Time)  
when 'Average of Average  
I/O Response Time (ms)' t  
hen AVG(SD\_SE\_3PAR\_SSAGV  
ol\_Stats.AVGAvgIOResponse  
Time)  
when 'Maximum of Average  
Read I/O Response Time (m  
s)' then MAX(SD\_SE\_3PAR\_S  
SAGVol\_Stats.MAXAvgReadI  
ORespTime)  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then MIN(SD\_SE\_3PAR\_S  
SAGVol\_Stats.MINAvgReadI  
ORespTime)  
when 'Average of Average  
Read I/O Response Time (m  
s)' then AVG(SD\_SE\_3PAR\_S  
SAGVol\_Stats.AVGAvgReadI  
ORespTime)  
when 'Maximum of Average  
Write I/O Response Time (  
ms)' then MAX(SD\_SE\_3PAR  
\_SSAGVol\_Stats.MAXAvgWrit  
elORespTime)  
when 'Minimum of Average  
Write I/O Response Time (  
ms)' then MIN(SD\_SE\_3PAR  
\_SSAGVol\_Stats.MINAvgWrit  
elORespTime)  
when 'Average of Average  
Write I/O Response Time (  
ms)' then AVG(SD\_SE\_3PAR  
\_SSAGVol\_Stats.AVGAvgWrit  
elORespTime)

---

```
when 'Maximum of Average
% Busy' then MAX(SD_SE_3
PAR_SSAGVol_Stats.MAXAvg
PercentBusy)
when 'Minimum of Average
% Busy' then MIN(SD_SE_3P
AR_SSAGVol_Stats.MINAvgP
ercentBusy)
when 'Maximum of Average
Queue Depth' then MAX(SD_
SE_3PAR_SSAGVol_Stats.MA
XAvgQueueDepth)
when 'Minimum of Average
Queue Depth' then MIN(SD_
SE_3PAR_SSAGVol_Stats.MI
NAvgQueueDepth)
when 'Average of Average
Queue Depth' then AVG(SD_
SE_3PAR_SSAGVol_Stats.AV
GAvgQueueDepth)
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then M
AX(SD_SE_3PAR_SSAGVol_St
ats.MAXDeltaReadHitIOs)
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then M
IN(SD_SE_3PAR_SSAGVol_St
ats.MINDeltaReadHitIOs)
when 'Average Delta Read
Hit I/Os (Req/Sec)' then A
VG(SD_SE_3PAR_SSAGVol_St
ats.AVGDeltaReadHitIOs)
when 'Maximum Delta Write
I/Os (Req/Sec)' then MAX
(SD_SE_3PAR_SSAGVol_Stat
s.MAXDeltaWriteIOs)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SD_SE_3PAR_SSAGVol_Stats
.MINDeltaWriteIOs)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SD_SE_3PAR_SSAGVol_Stat
s.AVGDeltaWriteIOs)
else 0
end
```

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Object: DailyOLAP Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qs, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: 3PAR AVG Storage Pool Volume Measures  
Description:

No objects

Class: Raw 3PAR AVG Storage Pool Volume Measures  
Description:

Object: Raw Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_VOLUME\_RAW\_MEASURE".Measure  
when 'Write Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_SPAGVol\_Stats.WriteDataRate  
when 'Read Data Rate (Bytes/Sec)' then SR\_SE\_3PAR\_SPAGVol\_Stats.ReadDataRate  
e

---

```

when 'Total Data Rate (Re
q/Sec)' then SR_SE_3PAR_S
PAGVol_Stats.TotalDataRat
e
when 'Read Hit Rate (Req/
Sec)' then SR_SE_3PAR_SPA
GVol_Stats.ReadHitRate
when 'Average Read Size (
Bytes)' then SR_SE_3PAR_S
PAGVol_Stats.AvgReadSize
when 'Average Write Size
(Bytes)' then SR_SE_3PAR_
SPAGVol_Stats.AvgWriteSiz
e
when '% Read I/Os' then SR_SE_3PAR_SPAGVol_Stats.PctReadIOs
when '% Write I/Os' then SR_SE_3PAR_SPAGVol_Stats.PctWriteIOs
when '% Hit Rate' then SR_SE_3PAR_SPAGVol_Stats.PctHitRate
when 'Write I/O Rate (Req
/Sec)' then SR_SE_3PAR_SP
AGVol_Stats.WriteRate
when 'Read I/O Rate (Req/
Sec)' then SR_SE_3PAR_SPA
GVol_Stats.ReadRate
when 'Total I/O Rate (Req
/Sec)' then SR_SE_3PAR_SP
AGVol_Stats.TotalIORate
when 'Average I/O Respons
e Time (ms)' then SR_SE_
3PAR_SPAGVol_Stats.AvgIO
ResponseTime
when 'Average Read I/O Re
sponse Time (ms)' then S
R_SE_3PAR_SPAGVol_Stats.
AvgReadIORespTime
when 'Average Write I/O R
esponse Time (ms)' then S
R_SE_3PAR_SPAGVol_Stats.
AvgWriteIORespTime
when 'Average % Busy' the
n SR_SE_3PAR_SPAGVol_Sta
ts.AvgPercentBusy
when 'Average Queue Depth
' then SR_SE_3PAR_SPAGVol
_Stats.AvgQueueDepth
when 'Delta Read Hit I/Os
(Req/Sec)' then SR_SE_3PA

```

---

```

R_SPAGVol_Stats.DeltaRead
HitIOs
when 'Delta Write I/Os (R
eq/Sec)' then SR_SE_3PAR_
SPAGVol_Stats.DeltaWriteI
Os
else 0
end

```

Where equivalent:

Qualification: measure  
 Aggregate function: None  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Object: Raw Measure  
 Type: Character  
 Description:

Select equivalent: "3PAR\_VOLUME\_RAW\_MEASURE".Measure  
 Where equivalent:

Qualification: dimension  
 List of values: 1qu, editable, manual refresh, not exportable  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class:	Hourly 3PAR AVG Storage Pool Volume Measures
Description:	

Object: Hourly Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
 when 'Maximum Write Data  
 Rate (Bytes/Sec)' then SH  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 AXWriteDataRate  
 when 'Minimum Write Data  
 Rate (Bytes/Sec)' then SH

\_SE\_3PAR\_Stor\_Vol\_Stats.M  
 INWriteDataRate  
 when 'Average Write Data  
 Rate (Bytes/Sec)' then SH  
 \_SE\_3PAR\_Stor\_Vol\_Stats.A  
 VGWriteDataRate  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then SH  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 AXReadDataRate  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then SH\_  
 SE\_3PAR\_Stor\_Vol\_Stats.MI  
 NReadDataRate  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then SH\_  
 SE\_3PAR\_Stor\_Vol\_Stats.AV  
 GReadDataRate  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then SH\_S  
 E\_3PAR\_Stor\_Vol\_Stats.MAX  
 TotalDataRate  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then SH\_S  
 E\_3PAR\_Stor\_Vol\_Stats.MIN  
 TotalDataRate  
 when 'Average Total Data  
 Rate (Req/Sec)' then SH\_S  
 E\_3PAR\_Stor\_Vol\_Stats.AVG  
 TotalDataRate  
 when 'Maximum Read Hit Ra  
 te (Req/Sec)' then SH\_SE\_  
 3PAR\_Stor\_Vol\_Stats.MAXRe  
 adHitRate  
 when 'Minimum Read Hit Ra  
 te (Req/Sec)' then SH\_SE\_  
 3PAR\_Stor\_Vol\_Stats.MINRe  
 adHitRate  
 when 'Average Read Hit Ra  
 te (Req/Sec)' then SH\_SE\_  
 3PAR\_Stor\_Vol\_Stats.AVGRe  
 adHitRate  
 when 'Maximum of Average  
 Read Size (Bytes)' then SH  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 AXAvgReadSize

when 'Minimum of Average  
Read Size (Bytes)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.M  
INAvgReadSize  
when 'Average of Average  
Read Size (Bytes)' then SH  
\_SE\_3PAR\_Stor\_Vol\_Stats.A  
VGAvgReadSize  
when 'Maximum of Average  
Write Size (Bytes)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
MAXAvgWriteSize  
when 'Minimum of Average  
Write Size (Bytes)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
MINAvgWriteSize  
when 'Average of Average  
Write Size (Bytes)' then S  
H\_SE\_3PAR\_Stor\_Vol\_Stats.  
AVGAvgWriteSize  
when 'Maximum % Write I/  
Os' then SH\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O  
s' then SH\_SE\_3PAR\_Stor\_V  
ol\_Stats.MINPctReadIOs  
when 'Maximum % Hit Rate'  
then SH\_SE\_3PAR\_Stor\_Vol  
\_Stats.MAXPctHitRate  
when 'Minimum % Hit Rate'  
then SH\_SE\_3PAR\_Stor\_Vol  
\_Stats.MINPctHitRate  
when 'Maximum Write I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.MAX  
WriteRate  
when 'Minimum Write I/O R  
ate (Req/Sec)' then SH\_SE  
\_3PAR\_Stor\_Vol\_Stats.MINW  
riteRate



---

```

when 'Average Write I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Stor_Vol_Stats.AVG
WriteRate
when 'Maximum Read I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Stor_Vol_Stats.MAXR
eadRate
when 'Minimum Read I/O Ra
te (Req/Sec)' then SH_SE_
3PAR_Stor_Vol_Stats.MINRe
adRate
when 'Average Read I/O Ra
te (Req/Sec)' then SH_SE_
3PAR_Stor_Vol_Stats.AVGRe
adRate
when 'Maximum Total I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Stor_Vol_Stats.MAXT
otalIORate
when 'Minimum Total I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Stor_Vol_Stats.MINT
otalIORate
when 'Average Total I/O R
ate (Req/Sec)' then SH_SE
_3PAR_Stor_Vol_Stats.AVGT
otalIORate
when 'Maximum of Average
I/O Response Time (ms)' t
hen SH_SE_3PAR_Stor_Vol_
Stats.MAXAvgIOResponseTi
me
when 'Minimum of Average
I/O Response Time (ms)' t
hen SH_SE_3PAR_Stor_Vol_
Stats.MINAvgIOResponseTim
e
when 'Average of Average
I/O Response Time (ms)' t
hen SH_SE_3PAR_Stor_Vol_
Stats.AVGAvgIOResponseTi
me
when 'Maximum of Average
Read I/O Response Time (m
s)' then SH_SE_3PAR_Stor_

```

---

Vol\_Stats.MAXAvgReadIORes  
pTime  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then SH\_SE\_3PAR\_Stor\_  
Vol\_Stats.MINAvgReadIORes  
pTime  
when 'Average of Average  
Read I/O Response Time (m  
s)' then SH\_SE\_3PAR\_Stor\_  
Vol\_Stats.AVGAvgReadIORes  
pTime  
when 'Maximum of Average  
Write I/O Response Time (  
ms)' then SH\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MAXAvgWriteIOR  
espTime  
when 'Minimum of Average  
Write I/O Response Time (  
ms)' then SH\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MINAvgWriteIOR  
espTime  
when 'Average of Average  
Write I/O Response Time (  
ms)' then SH\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.AVGAvgWriteIOR  
espTime  
when 'Maximum of Average  
% Busy' then SH\_SE\_3PAR\_  
Stor\_Vol\_Stats.MAXAvgPerc  
entBusy  
when 'Minimum of Average  
% Busy' then SH\_SE\_3PAR\_  
Stor\_Vol\_Stats.MINAvgPerc  
entBusy  
when 'Maximum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.MAXAvg  
QueueDepth  
when 'Minimum of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.MINAvg  
QueueDepth  
when 'Average of Average  
Queue Depth' then SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.AVGAvg

```

QueueDepth
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then S
H_SE_3PAR_Stor_Vol_Stats.
MAXDeltaReadHitIOs
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then S
H_SE_3PAR_Stor_Vol_Stats.
MINDeltaReadHitIOs
when 'Average Delta Read
Hit I/Os (Req/Sec)' then S
H_SE_3PAR_Stor_Vol_Stats.
AVGDeltaReadHitIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.MA
XDeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.MI
NDeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SH_
SE_3PAR_Stor_Vol_Stats.AV
GDeltaWriteIOs
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	None
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Hourly Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1qw, editable, manual refresh, not exportable

Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

Class:	Daily 3PAR AVG Storage Pool Volume Measures
Description:	

Object: Daily Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
 when 'Maximum Write Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 AXWriteDataRate  
 when 'Minimum Write Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 INWriteDataRate  
 when 'Average Write Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_Stor\_Vol\_Stats.A  
 VGWriteDataRate  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then SD  
 \_SE\_3PAR\_Stor\_Vol\_Stats.M  
 AXReadDataRate  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then SD\_  
 SE\_3PAR\_Stor\_Vol\_Stats.MI  
 NReadDataRate  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then SD\_  
 SE\_3PAR\_Stor\_Vol\_Stats.AV  
 GReadDataRate  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_Stor\_Vol\_Stats.MAX  
 TotalDataRate  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then SD\_S  
 E\_3PAR\_Stor\_Vol\_Stats.MIN  
 TotalDataRate  
 when 'Average Total Data

Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVG  
TotalDataRate  
when 'Maximum Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadHitRate  
when 'Minimum Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadHitRate  
when 'Average Read Hit Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadHitRate  
when 'Maximum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadSize  
when 'Minimum of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadSize  
when 'Average of Average Read Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadSize  
when 'Maximum of Average Write Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgWriteSize  
when 'Minimum of Average Write Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteSize  
when 'Average of Average Write Size (Bytes)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteSize  
when 'Maximum % Write I/Os' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctWriteIOs  
when 'Minimum % Write I/Os' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctWriteIOs  
when 'Maximum % Read I/O

s' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctReadIOs  
when 'Minimum % Read I/O s' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctReadIOs  
when 'Maximum % Hit Rate' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctHitRate  
when 'Minimum % Hit Rate' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctHitRate  
when 'Maximum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteRate  
when 'Minimum Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteRate  
when 'Average Write I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteRate  
when 'Maximum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXReadRate  
when 'Minimum Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINReadRate  
when 'Average Read I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGReadRate  
when 'Maximum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXTotalIORate  
when 'Minimum Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINTotalIORate  
when 'Average Total I/O Rate (Req/Sec)' then SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalIORate

otallORate  
when 'Maximum of Average  
I/O Response Time (ms)' t  
hen SD\_SE\_3PAR\_Stor\_Vol\_  
Stats.MAXAvgIOResponseTi  
me  
when 'Minimum of Average  
I/O Response Time (ms)' t  
hen SD\_SE\_3PAR\_Stor\_Vol\_  
Stats.MINAvgIOResponseTim  
e  
when 'Average of Average  
I/O Response Time (ms)' t  
hen SD\_SE\_3PAR\_Stor\_Vol\_  
Stats.AVGAvgIOResponseTi  
me  
when 'Maximum of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MAXAvgReadIORes  
pTime  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.MINAvgReadIORes  
pTime  
when 'Average of Average  
Read I/O Response Time (m  
s)' then SD\_SE\_3PAR\_Stor\_  
Vol\_Stats.AVGAvgReadIORes  
pTime  
when 'Maximum of Average  
Write I/O Response Time (  
ms)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MAXAvgWritelOR  
espTime  
when 'Minimum of Average  
Write I/O Response Time (  
ms)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.MINAvgWritelOR  
espTime  
when 'Average of Average  
Write I/O Response Time (  
ms)' then SD\_SE\_3PAR\_Stor\_  
\_Vol\_Stats.AVGAvgWritelOR  
espTime

---

```
when 'Maximum of Average
% Busy' then SD_SE_3PAR_
Stor_Vol_Stats.MAXAvgPerc
entBusy
when 'Minimum of Average
% Busy' then SD_SE_3PAR_
Stor_Vol_Stats.MINAvgPerc
entBusy
when 'Maximum of Average
Queue Depth' then SD_SE_3
PAR_Stor_Vol_Stats.MAXAvg
QueueDepth
when 'Minimum of Average
Queue Depth' then SD_SE_3
PAR_Stor_Vol_Stats.MINAvg
QueueDepth
when 'Average of Average
Queue Depth' then SD_SE_3
PAR_Stor_Vol_Stats.AVGAvg
QueueDepth
when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
MAXDeltaReadHitIOs
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
MINDeltaReadHitIOs
when 'Average Delta Read
Hit I/Os (Req/Sec)' then S
D_SE_3PAR_Stor_Vol_Stats.
AVGDeltaReadHitIOs
when 'Maximum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.MA
XDeltaWriteIOs
when 'Minimum Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.MI
NDeltaWriteIOs
when 'Average Delta Write
I/Os (Req/Sec)' then SD_
SE_3PAR_Stor_Vol_Stats.AV
GDeltaWriteIOs
else 0
end
```



Where equivalent:

Qualification: measure  
Aggregate function: None  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Object: Daily Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1qx, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: HourlyOLAP 3PAR AVG  
Storage Pool Volume M  
easures  
Description:

Object: HourlyOLAP Aggregate Measure  
Type: Number  
Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
when 'Maximum Write Data  
Rate (Bytes/Sec)' then MA  
X(SH\_SE\_3PAR\_Stor\_Vol\_St  
ats.MAXWriteDataRate)  
when 'Minimum Write Data  
Rate (Bytes/Sec)' then MI  
N(SH\_SE\_3PAR\_Stor\_Vol\_St  
ats.MINWriteDataRate)  
when 'Average Write Data  
Rate (Bytes/Sec)' then AV  
G(SH\_SE\_3PAR\_Stor\_Vol\_St  
ats.AVGWriteDataRate)

---

```

when 'Maximum Read Data
Rate (Bytes/Sec)' then MA
X(SH_SE_3PAR_Stor_Vol_St
ats.MAXReadDataRate)
when 'Minimum Read Data R
ate (Bytes/Sec)' then MIN(
SH_SE_3PAR_Stor_Vol_Stats
.MINReadDataRate)
when 'Average Read Data R
ate (Bytes/Sec)' then AVG(
SH_SE_3PAR_Stor_Vol_Stats
.AVGReadDataRate)
when 'Maximum Total Data
Rate (Req/Sec)' then MAX(
SH_SE_3PAR_Stor_Vol_Stats
.MAXTotalDataRate)
when 'Minimum Total Data
Rate (Req/Sec)' then MIN(
SH_SE_3PAR_Stor_Vol_Stats
.MINTotalDataRate)
when 'Average Total Data
Rate (Req/Sec)' then AVG(
SH_SE_3PAR_Stor_Vol_Stats
.AVGTotalDataRate)
when 'Maximum Read Hit Ra
te (Req/Sec)' then MAX(SH
_SE_3PAR_Stor_Vol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SH
_SE_3PAR_Stor_Vol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Stor_Vol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SH_SE_3PAR_Stor_Vol_S
tats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then MI
N(SH_SE_3PAR_Stor_Vol_St
ats.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV

```

---

G(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadSize)  
 when 'Maximum of Average Write Size (Bytes)' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgWriteSize)  
 when 'Minimum of Average Write Size (Bytes)' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteSize)  
 when 'Average of Average Write Size (Bytes)' then AVG(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteSize)  
 when 'Maximum % Write I/Os' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctWriteI/Os)  
 when 'Minimum % Write I/Os' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctWriteI/Os)  
 when 'Maximum % Read I/Os' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctReadI/Os)  
 when 'Minimum % Read I/Os' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctReadI/Os)  
 when 'Maximum % Hit Rate' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXPctHitRate)  
 when 'Minimum % Hit Rate' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINPctHitRate)  
 when 'Maximum Write I/O Rate (Req/Sec)' then MAX(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MAXWriteRate)  
 when 'Minimum Write I/O Rate (Req/Sec)' then MIN(SH\_SE\_3PAR\_Stor\_Vol\_Stats.MINWriteRate)  
 when 'Average Write I/O Rate (Req/Sec)' then AVG(SH\_SE\_3PAR\_Stor\_Vol\_Stats.AVGWriteRate)

```

ate (Req/Sec)' then AVG(S
H_SE_3PAR_Stor_Vol_Stats.
AVGWriteRate)
when 'Maximum Read I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Stor_Vol_Stats.
MAXReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then MIN(SH
_SE_3PAR_Stor_Vol_Stats.M
INReadRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SH
_SE_3PAR_Stor_Vol_Stats.A
VGReadRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
H_SE_3PAR_Stor_Vol_Stats.
MAXTotalIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
H_SE_3PAR_Stor_Vol_Stats.
MINTotalIORate)
when 'Average Total I/O R
ate (Req/Sec)' then AVG(S
H_SE_3PAR_Stor_Vol_Stats.
AVGTotalIORate)
when 'Maximum of Average
I/O Response Time (ms)' t
hen MAX(SH_SE_3PAR_Stor_
Vol_Stats.MAXAvgIORespons
eTime)
when 'Minimum of Average
I/O Response Time (ms)' t
hen MIN(SH_SE_3PAR_Stor_
Vol_Stats.MINAvgIORespons
eTime)
when 'Average of Average
I/O Response Time (ms)' t
hen AVG(SH_SE_3PAR_Stor_
Vol_Stats.AVGAvgIORespons
eTime)
when 'Maximum of Average
Read I/O Response Time (m
s)' then MAX(SH_SE_3PAR_S
tor_Vol_Stats.MAXAvgReadI

```

ORespTime)  
when 'Minimum of Average  
Read I/O Response Time (m  
s)' then MIN(SH\_SE\_3PAR\_S  
tor\_Vol\_Stats.MINAvgReadI  
ORespTime)  
when 'Average of Average  
Read I/O Response Time (m  
s)' then AVG(SH\_SE\_3PAR\_S  
tor\_Vol\_Stats.AVGAvgReadI  
ORespTime)  
when 'Maximum of Average  
Write I/O Response Time (m  
s)' then MAX(SH\_SE\_3PAR  
\_Stor\_Vol\_Stats.MAXAvgWri  
telORespTime)  
when 'Minimum of Average  
Write I/O Response Time (m  
s)' then MIN(SH\_SE\_3PAR  
\_Stor\_Vol\_Stats.MINAvgWri  
telORespTime)  
when 'Average of Average  
Write I/O Response Time (m  
s)' then AVG(SH\_SE\_3PAR  
\_Stor\_Vol\_Stats.AVGAvgWri  
telORespTime)  
when 'Maximum of Average  
% Busy' then MAX(SH\_SE\_3  
PAR\_Stor\_Vol\_Stats.MAXAvg  
PercentBusy)  
when 'Minimum of Average  
% Busy' then MIN(SH\_SE\_3P  
AR\_Stor\_Vol\_Stats.MINAvgP  
ercentBusy)  
when 'Maximum of Average  
Queue Depth' then MAX(SH\_  
SE\_3PAR\_Stor\_Vol\_Stats.MA  
XAvgQueueDepth)  
when 'Minimum of Average  
Queue Depth' then MIN(SH\_  
SE\_3PAR\_Stor\_Vol\_Stats.MI  
NAvgQueueDepth)  
when 'Average of Average  
Queue Depth' then AVG(SH\_  
SE\_3PAR\_Stor\_Vol\_Stats.AV  
GAvgQueueDepth)

```

when 'Maximum Delta Read
Hit I/Os (Req/Sec)' then M
AX(SH_SE_3PAR_Stor_Vol_S
tats.MAXDeltaReadHitIOs)
when 'Minimum Delta Read
Hit I/Os (Req/Sec)' then M
IN(SH_SE_3PAR_Stor_Vol_St
ats.MINDeltaReadHitIOs)
when 'Average Delta Read
Hit I/Os (Req/Sec)' then A
VG(SH_SE_3PAR_Stor_Vol_S
tats.AVGDeltaReadHitIOs)
when 'Maximum Delta Write
I/Os (Req/Sec)' then MAX
(SH_SE_3PAR_Stor_Vol_Stat
s.MAXDeltaWriteIOs)
when 'Minimum Delta Write
I/Os (Req/Sec)' then MIN(
SH_SE_3PAR_Stor_Vol_Stats
.MINDeltaWriteIOs)
when 'Average Delta Write
I/Os (Req/Sec)' then AVG
(SH_SE_3PAR_Stor_Vol_Stat
s.AVGDeltaWriteIOs)
else 0
end

```

Where equivalent:

Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	HourlyOLAP Measure
Type:	Character
Description:	

Select equivalent:	"3PAR_VOLUME_HISTORY_MEASURE".Measure
Where equivalent:	

Qualification:	dimension
List of values:	1r1, editable, manual refresh, not exportable
Security access level:	0

Can be used: in result, in condition, in sort  
 Object status: show

Class:	DailyOLAP 3PAR AVG Storage Pool Volume Measures
Description:	

Object: DailyOLAP Aggregate Measure  
 Type: Number  
 Description:

Select equivalent: case "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
 when 'Maximum Write Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_Stor\_Vol\_St  
 ats.MAXWriteDataRate)  
 when 'Minimum Write Data  
 Rate (Bytes/Sec)' then MI  
 N(SD\_SE\_3PAR\_Stor\_Vol\_St  
 ats.MINWriteDataRate)  
 when 'Average Write Data  
 Rate (Bytes/Sec)' then AV  
 G(SD\_SE\_3PAR\_Stor\_Vol\_St  
 ats.AVGWriteDataRate)  
 when 'Maximum Read Data  
 Rate (Bytes/Sec)' then MA  
 X(SD\_SE\_3PAR\_Stor\_Vol\_St  
 ats.MAXReadDataRate)  
 when 'Minimum Read Data R  
 ate (Bytes/Sec)' then MIN(  
 SD\_SE\_3PAR\_Stor\_Vol\_Stats  
 .MINReadDataRate)  
 when 'Average Read Data R  
 ate (Bytes/Sec)' then AVG(  
 SD\_SE\_3PAR\_Stor\_Vol\_Stats  
 .AVGReadDataRate)  
 when 'Maximum Total Data  
 Rate (Req/Sec)' then MAX(  
 SD\_SE\_3PAR\_Stor\_Vol\_Stats  
 .MAXTotalDataRate)  
 when 'Minimum Total Data  
 Rate (Req/Sec)' then MIN(  
 SD\_SE\_3PAR\_Stor\_Vol\_Stats  
 .MINTotalDataRate)  
 when 'Average Total Data  
 Rate (Req/Sec)' then AVG(

---

```

SD_SE_3PAR_Stor_Vol_Stats
.AVGTotalDataRate)
when 'Maximum Read Hit Ra
te (Req/Sec)' then MAX(SD
_SE_3PAR_Stor_Vol_Stats.M
AXReadHitRate)
when 'Minimum Read Hit Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_Stor_Vol_Stats.M
INReadHitRate)
when 'Average Read Hit Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_Stor_Vol_Stats.A
VGReadHitRate)
when 'Maximum of Average
Read Size (Bytes)' then M
AX(SD_SE_3PAR_Stor_Vol_S
tats.MAXAvgReadSize)
when 'Minimum of Average
Read Size (Bytes)' then M
IN(SD_SE_3PAR_Stor_Vol_St
ats.MINAvgReadSize)
when 'Average of Average
Read Size (Bytes)' then AV
G(SD_SE_3PAR_Stor_Vol_St
ats.AVGAvgReadSize)
when 'Maximum of Average
Write Size (Bytes)' then M
AX(SD_SE_3PAR_Stor_Vol_S
tats.MAXAvgWriteSize)
when 'Minimum of Average
Write Size (Bytes)' then M
IN(SD_SE_3PAR_Stor_Vol_St
ats.MINAvgWriteSize)
when 'Average of Average
Write Size (Bytes)' then A
VG(SD_SE_3PAR_Stor_Vol_S
tats.AVGAvgWriteSize)
when 'Maximum % Write I/
Os' then MAX(SD_SE_3PAR_
Stor_Vol_Stats.MAXPctWrit
eIOs)
when 'Minimum % Write I/O
s' then MIN(SD_SE_3PAR_St
or_Vol_Stats.MINPctWriteI
Os)

```

---



```

when 'Maximum % Read I/O
s' then MAX(SD_SE_3PAR_St
or_Vol_Stats.MAXPctReadIO
s)
when 'Minimum % Read I/O
s' then MIN(SD_SE_3PAR_St
or_Vol_Stats.MINPctReadIO
s)
when 'Maximum % Hit Rate'
then MAX(SD_SE_3PAR_Sto
r_Vol_Stats.MAXPctHitRate
)
when 'Minimum % Hit Rate'
then MIN(SD_SE_3PAR_Stor
_Vol_Stats.MINPctHitRate)
when 'Maximum Write I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Stor_Vol_Stats.
MAXWriteRate)
when 'Minimum Write I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_Stor_Vol_Stats.
MINWriteRate)
when 'Average Write I/O R
ate (Req/Sec)' then AVG(S
D_SE_3PAR_Stor_Vol_Stats.
AVGWriteRate)
when 'Maximum Read I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Stor_Vol_Stats.
MAXReadRate)
when 'Minimum Read I/O Ra
te (Req/Sec)' then MIN(SD
_SE_3PAR_Stor_Vol_Stats.M
INReadRate)
when 'Average Read I/O Ra
te (Req/Sec)' then AVG(SD
_SE_3PAR_Stor_Vol_Stats.A
VGReadRate)
when 'Maximum Total I/O R
ate (Req/Sec)' then MAX(S
D_SE_3PAR_Stor_Vol_Stats.
MAXTotalIORate)
when 'Minimum Total I/O R
ate (Req/Sec)' then MIN(S
D_SE_3PAR_Stor_Vol_Stats.

```

MINTotalIORate)  
when 'Average Total I/O Rate (Req/Sec)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGTotalIORate)  
when 'Maximum of Average I/O Response Time (ms)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgIOResponseTime)  
when 'Minimum of Average I/O Response Time (ms)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgIOResponseTime)  
when 'Average of Average I/O Response Time (ms)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgIOResponseTime)  
when 'Maximum of Average Read I/O Response Time (ms)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgReadIOResponseTime)  
when 'Minimum of Average Read I/O Response Time (ms)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgReadIOResponseTime)  
when 'Average of Average Read I/O Response Time (ms)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgReadIOResponseTime)  
when 'Maximum of Average Write I/O Response Time (ms)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgWriteIOResponseTime)  
when 'Minimum of Average Write I/O Response Time (ms)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgWriteIOResponseTime)  
when 'Average of Average

Write I/O Response Time (ms)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgWriteIOWriteTime)  
 when 'Maximum of Average % Busy' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgPercentBusy)  
 when 'Minimum of Average % Busy' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgPercentBusy)  
 when 'Maximum of Average Queue Depth' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXAvgQueueDepth)  
 when 'Minimum of Average Queue Depth' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINAvgQueueDepth)  
 when 'Average of Average Queue Depth' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGAvgQueueDepth)  
 when 'Maximum Delta Read Hit I/Os (Req/Sec)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaReadHitIOWriteTime)  
 when 'Minimum Delta Read Hit I/Os (Req/Sec)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINDeltaReadHitIOWriteTime)  
 when 'Average Delta Read Hit I/Os (Req/Sec)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaReadHitIOWriteTime)  
 when 'Maximum Delta Write I/Os (Req/Sec)' then MAX(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MAXDeltaWriteIOWriteTime)  
 when 'Minimum Delta Write I/Os (Req/Sec)' then MIN(SD\_SE\_3PAR\_Stor\_Vol\_Stats.MINDeltaWriteIOWriteTime)  
 when 'Average Delta Write I/Os (Req/Sec)' then AVG(SD\_SE\_3PAR\_Stor\_Vol\_Stats.AVGDeltaWriteIOWriteTime)

```
(SD_SE_3PAR_Stor_Vol_Stat  
s.AVGDeltaWriteIOs)  
else 0  
end
```

Where equivalent:

Qualification: measure  
Aggregate function: Min  
List of values: no  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object: DailyOLAP Measure  
Type: Character  
Description:

Select equivalent: "3PAR\_VOLUME\_HISTORY\_MEASURE".Measure  
Where equivalent:

Qualification: dimension  
List of values: 1r3, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

Class: Date Time Period
Description:

Object: Date  
Type: Date  
Description:

Select equivalent: convert(date,Dateformat(D  
ATETIME.TIME\_FULL\_DATE,'  
yyyy-mm-dd'))

Where equivalent:

Qualification: dimension  
List of values: 3jj, editable, manual refresh, not exportable  
Security access level: 0  
Can be used: in result, in condition, in sort  
Object status: show

---

Object:	SHRDate
Type:	Date
Description:	SHR Date
Select equivalent:	Date(SHRDate.SHRDate)
Where equivalent:	
Qualification:	dimension
List of values:	1ny, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	hidden

---

Object:	Start Date
Type:	Date
Description:	Date Min Range
Select equivalent:	DATETIMERANGE.DATE_RANGE_MIN
Where equivalent:	
Qualification:	dimension
List of values:	3jk, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	End Date
Type:	Date
Description:	Date Max Range
Select equivalent:	DATETIMERANGE.DATE_RANGE_MAX
Where equivalent:	
Qualification:	dimension
List of values:	3jl, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Date Range
Type:	Character
Description:	Date Range
Select equivalent:	DATETIMERANGE.Date_Range
Where equivalent:	

---

---

Qualification:	dimension
List of values:	3jm, editable, automatic refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date-Hourly
Type:	Date
Description:	Full Date
Select equivalent:	cast(substring(Cast(DATETIME.TIME_FULL_DATE as char(26)),1,10) as datetime)
Where equivalent:	DATETIME.HOUR_BOUNDARY=1
Qualification:	dimension
List of values:	1nm, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date-Daily
Type:	Date
Description:	Full Date
Select equivalent:	cast(substring(Cast(DATETIME.TIME_FULL_DATE as char(26)),1,10) as datetime)
Where equivalent:	DATETIME.DAY_BOUNDARY=1
Qualification:	dimension
List of values:	1np, editable, manual refresh, not exportable
Security access level:	0
Can be used:	in result, in condition, in sort
Object status:	show

---

Object:	Full Date-Min
Type:	Date
Description:	Full Date
Select equivalent:	Min(DATETIME.TIME_FULL_DATE)
Where equivalent:	
Qualification:	measure
Aggregate function:	Min
List of values:	no
Security access level:	0
Can be used:	in result, in condition, in sort

---

Object status: show

---

Object: Full Date-Max  
 Type: Date  
 Description: Full Date  
 Select equivalent: Max(DATETIME.TIME\_FULL\_DATE)  
 Where equivalent:

Qualification: measure  
 Aggregate function: Max  
 List of values: no  
 Security access level: 0  
 Can be used: in result, in condition, in sort  
 Object status: show

## Conditions

Class:	SOM_HP3PARPerfReporting_Core
Description:	

### 3PAR Storage Systems

Description:  
 Where Equivalent: K\_SE\_StorageSystem.ProviderTag='TPD\_StorageSystem'

Class:	Raw HP 3PAR Storage System Statistics
Description:	

### Latest Collection Time

Description: Filters data to display HP 3PAR Storage System performance statistics for the latest collection time ONLY.  
 Where Equivalent: @Select(DATETIME(HP 3PAR Storage System Statistics)\Full Date) in (Select max(SR\_SE\_3PAR\_Stor\_Sys\_Stats.ta\_period) from SR\_SE\_3PAR\_Stor\_Sys\_Stats, K\_SE\_StorageSystem K WHERE SR\_SE\_3PAR\_Stor\_Sys\_Stats.dsi\_key\_id = K.dsi\_key\_id and K.dsi\_key\_id=@Select(Supplemental\Storage System Key) Group By K.dsi\_key\_id )

Class: Hourly HP 3PAR Storage System Statistics  
Description:

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage System performance statisti  
cs for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage System Statistics)\Full Dat  
e) in (Select max(SH\_SE\_3PAR\_Stor\_Sys\_  
Stats.ta\_period) from SH\_SE\_3PAR\_Stor\_  
Sys\_Stats, K\_SE\_StorageSystem K WHERE  
SH\_SE\_3PAR\_Stor\_Sys\_Stats.dsi\_key\_id\_  
= K.dsi\_key\_id and K.dsi\_key\_id=@Selec  
t(Supplemental\Storage System Key) Gro  
up By K.dsi\_key\_id )

Class: Daily HP 3PAR Storage System Statistics  
Description:

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage System performance statisti  
cs for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage System Statistics)\Full Dat  
e) in (Select max(SD\_SE\_3PAR\_Stor\_Sys\_  
Stats.ta\_period) from SD\_SE\_3PAR\_Stor\_  
Sys\_Stats, K\_SE\_StorageSystem K WHERE  
SD\_SE\_3PAR\_Stor\_Sys\_Stats.dsi\_key\_id\_  
= K.dsi\_key\_id and K.dsi\_key\_id=@Selec  
t(Supplemental\Storage System Key) Gro  
up By K.dsi\_key\_id )

Class: HourlyOLAP-HP 3PAR Storage System Statistics  
Description:

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage System performance statisti  
cs for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage System Statistics)\Full Dat



e) in (Select max(SH\_SE\_3PAR\_Stor\_Sys\_Stats.ta\_period) from SH\_SE\_3PAR\_Stor\_Sys\_Stats, K\_SE\_StorageSystem K WHERE SH\_SE\_3PAR\_Stor\_Sys\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id=@Select(Supplemental\Storage System Key) Group By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR Storage System Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3 PAR Storage System performance statistics for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3 PAR Storage System Statistics)\Full Date) in (Select max(SD\_SE\_3PAR\_Stor\_Sys\_Stats.ta\_period) from SD\_SE\_3PAR\_Stor\_Sys\_Stats, K\_SE\_StorageSystem K WHERE SD\_SE\_3PAR\_Stor\_Sys\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id=@Select(Supplemental\Storage System Key) Group By K.dsi\_key\_id )

Class:	Raw HP 3PAR Storage Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3 PAR Storage Volume Performance Statistics for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3 PAR Storage Volume Statistics)\Full Date) in (Select max(SR\_SE\_3PAR\_Stor\_Vol\_Stats.ta\_period) from SR\_SE\_3PAR\_Stor\_Vol\_Stats, K\_SE\_Storage\_Volume K WHERE SR\_SE\_3PAR\_Stor\_Vol\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id=@Select(Supplemental\Storage Volume Key) Group By K.dsi\_key\_id )

Class:	Hourly HP 3PAR Storage Volume Statistics
Description:	

## Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage Volume Performance Statistics  
for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage Volume Statistics)\Full Date)  
in (Select max(SH\_SE\_3PAR\_Stor\_Vol\_Stats.ta\_period)  
from SH\_SE\_3PAR\_Stor\_Vol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SH\_SE\_3PAR\_Stor\_Vol\_Stats.dsi\_key\_id = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplemental\Storage Volume Key)  
Group By K.dsi\_key\_id )

Class:

Daily HP 3PAR Storage Volume Statistics

Description:

## Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage Volume Performance Statistics  
for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage Volume Statistics)\Full Date)  
in (Select max(SD\_SE\_3PAR\_Stor\_Vol\_Stats.ta\_period)  
from SD\_SE\_3PAR\_Stor\_Vol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SD\_SE\_3PAR\_Stor\_Vol\_Stats.dsi\_key\_id = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplemental\Storage Volume Key)  
Group By K.dsi\_key\_id )

Class:

HourlyOLAP-HP 3PAR Storage Volume Statistics

Description:

## Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage Volume Performance Statistics  
for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage Volume Statistics)\Full Date)  
in (Select max(SH\_SE\_3PAR\_Stor\_Vol\_Stats.ta\_period)  
from SH\_SE\_3PAR\_Stor\_

Vol\_Stats, K\_SE\_Storage\_Volume K WHERE  
SH\_SE\_3PAR\_Stor\_Vol\_Stats.dsi\_key\_id\_  
= K.dsi\_key\_id and K.dsi\_key\_id=@Sele  
ct(Supplemental\Storage Volume Key) Gr  
oup By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR Storage Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR Storage Volume Performance Statisti  
cs for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Storage Volume Statistics)\Full Dat  
e) in (Select max(SD\_SE\_3PAR\_Stor\_Vol\_  
Stats.ta\_period) from SD\_SE\_3PAR\_Stor\_  
Vol\_Stats, K\_SE\_Storage\_Volume K WHERE  
SD\_SE\_3PAR\_Stor\_Vol\_Stats.dsi\_key\_id\_  
= K.dsi\_key\_id and K.dsi\_key\_id=@Sele  
ct(Supplemental\Storage Volume Key) Gr  
oup By K.dsi\_key\_id )

Class:	Raw HP 3PAR Controller Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Controller Performance Statistics for the latest collection time ONLY.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR Controller Statistics)\Full Date) in  
(Select max(SR\_SE\_3PAR\_Cntrlr\_Stats.ta  
\_period) from SR\_SE\_3PAR\_Cntrlr\_Stats,  
K\_SE\_Storage\_Processor K WHERE SR\_SE\_  
3PAR\_Cntrlr\_Stats.dsi\_key\_id\_ = K.dsi\_k  
ey\_id and K.dsi\_key\_id=@Select(Supple  
mental\Controller Key) Group By K.dsi\_k  
ey\_id )

Class:	Hourly HP 3PAR Controller Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Controller Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Controller Statistics)\Full Date) in  
(Select max(SH\_SE\_3PAR\_Cntrlr\_Stats.ta  
\_period) from SH\_SE\_3PAR\_Cntrlr\_Stats,  
K\_SE\_Storage\_Processor K WHERE SH\_SE\_  
3PAR\_Cntrlr\_Stats.dsi\_key\_id\_ = K.dsi\_k  
ey\_id and K.dsi\_key\_id=@Select(Supple  
mental\Controller Key) Group By K.dsi\_k  
ey\_id )

Class:	Daily HP 3PAR Controller Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Controller Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Controller Statistics)\Full Date) in  
(Select max(SD\_SE\_3PAR\_Cntrlr\_Stats.ta  
\_period) from SD\_SE\_3PAR\_Cntrlr\_Stats,  
K\_SE\_Storage\_Processor K WHERE SD\_SE\_  
3PAR\_Cntrlr\_Stats.dsi\_key\_id\_ = K.dsi\_k  
ey\_id and K.dsi\_key\_id=@Select(Supple  
mental\Controller Key) Group By K.dsi\_k  
ey\_id )

Class:	HourlyOLAP-HP 3PAR Controller Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Controller Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Controller Statistics)\Full Date) in  
(Select max(SH\_SE\_3PAR\_Cntrlr\_Stats.ta  
\_period) from SH\_SE\_3PAR\_Cntrlr\_Stats,  
K\_SE\_Storage\_Processor K WHERE SH\_SE\_  
3PAR\_Cntrlr\_Stats.dsi\_key\_id\_ = K.dsi\_k  
ey\_id and K.dsi\_key\_id=@Select(Supple  
mental\Controller Key) Group By K.dsi\_k  
ey\_id )

Class:	DailyOLAP-HP 3PAR Controller Statistics
Description:	

**Latest Collection Time**

Description:Filters data to display HP 3PAR Controller Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Controller Statistics)\Full Date) in  
(Select max(SD\_SE\_3PAR\_Cntrlr\_Stats.ta  
\_period) from SD\_SE\_3PAR\_Cntrlr\_Stats,  
K\_SE\_Storage\_Processor K WHERE SD\_SE\_  
3PAR\_Cntrlr\_Stats.dsi\_key\_id\_ = K.dsi\_k  
ey\_id and K.dsi\_key\_id=@Select(Supple  
mental\Controller Key) Group By K.dsi\_k  
ey\_id )

Class:	Raw HP 3PAR Disk Statistics
Description:	

**Latest Collection Time**

Description:Filters data to display NAS logical volume capacity information for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Disk Statistics)\Full Date) in (Sele  
ct max(SR\_SE\_3PAR\_Disk\_Stats.ta\_period  
) from SR\_SE\_3PAR\_Disk\_Stats, K\_SE\_Sto  
rage\_DiskDrive K WHERE SR\_SE\_3PAR\_Dis  
k\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and  
K.dsi\_key\_id=@Select(Supplemental\Disk  
Drive Key) Group By K.dsi\_key\_id )

Class:	Hourly HP 3PAR Disk Statistics
Description:	

**Latest Collection Time**

Description:Filters data to display NAS logical volume capacity information for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Disk Statistics)\Full Date) in (Sele  
ct max(SH\_SE\_3PAR\_Disk\_Stats.ta\_period  
) from SH\_SE\_3PAR\_Disk\_Stats, K\_SE\_Sto  
rage\_DiskDrive K WHERE SH\_SE\_3PAR\_Dis  
k\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and  
K.dsi\_key\_id=@Select(Supplemental\Disk  
Drive Key) Group By K.dsi\_key\_id )

Class:	Daily HP 3PAR Disk Statistics
Description:	

## Latest Collection Time

Description:Filters data to display NAS logical volume capacity information for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Disk Statistics)\Full Date) in (Sele  
ct max(SD\_SE\_3PAR\_Disk\_Stats.ta\_period  
) from SD\_SE\_3PAR\_Disk\_Stats, K\_SE\_Sto  
rage\_DiskDrive K WHERE SD\_SE\_3PAR\_Dis  
k\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and  
K.dsi\_key\_id=@Select(Supplemental\Disk  
Drive Key) Group By K.dsi\_key\_id )

Class:	HourlyOLAP-HP 3PAR Disk Statistics
Description:	

## Latest Collection Time

Description:Filters data to display NAS logical volume capacity information for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Disk Statistics)\Full Date) in (Sele  
ct max(SH\_SE\_3PAR\_Disk\_Stats.ta\_period  
) from SH\_SE\_3PAR\_Disk\_Stats, K\_SE\_Sto  
rage\_DiskDrive K WHERE SH\_SE\_3PAR\_Dis  
k\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and  
K.dsi\_key\_id=@Select(Supplemental\Disk  
Drive Key) Group By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR Disk Statistics
Description:	

## Latest Collection Time

Description:Filters data to display NAS logical volume capacity information for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR Disk Statistics)\Full Date) in (Sele  
ct max(SD\_SE\_3PAR\_Disk\_Stats.ta\_period  
) from SD\_SE\_3PAR\_Disk\_Stats, K\_SE\_Sto  
rage\_DiskDrive K WHERE SD\_SE\_3PAR\_Dis  
k\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id and  
K.dsi\_key\_id=@Select(Supplemental\Disk  
Drive Key) Group By K.dsi\_key\_id )

Class:	Raw HP 3PAR FC Port Statistics
Description:	

## Latest Collection Time

Description:Filters data to display HP 3PAR Disk Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR FC Port Statistics)\Full Date) in (S  
elect max(SR\_SE\_3PAR\_FCPort\_Stats.ta\_p  
eriod) from SR\_SE\_3PAR\_FCPort\_Stats, K  
\_SE\_Storage\_Port K WHERE SR\_SE\_3PAR\_  
FCPort\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplementa  
l\FC Port Key) Group By K.dsi\_key\_id )

Class:	Hourly HP 3PAR FC Port Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Disk Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR FC Port Statistics)\Full Date) in (S  
elect max(SH\_SE\_3PAR\_FCPort\_Stats.ta\_p  
eriod) from SH\_SE\_3PAR\_FCPort\_Stats, K  
\_SE\_Storage\_Port K WHERE SH\_SE\_3PAR\_  
FCPort\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplementa  
l\FC Port Key) Group By K.dsi\_key\_id )

Class:	Daily HP 3PAR FC Port Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Disk Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR FC Port Statistics)\Full Date) in (S  
elect max(SD\_SE\_3PAR\_FCPort\_Stats.ta\_p  
eriod) from SD\_SE\_3PAR\_FCPort\_Stats, K  
\_SE\_Storage\_Port K WHERE SD\_SE\_3PAR\_  
FCPort\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplementa  
l\FC Port Key) Group By K.dsi\_key\_id )

Class:	HourlyOLAP-HP 3PAR FC Port Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Disk Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR FC Port Statistics)\Full Date) in (S  
elect max(SH\_SE\_3PAR\_FCPort\_Stats.ta\_p  
eriod) from SH\_SE\_3PAR\_FCPort\_Stats, K  
\_SE\_Storage\_Port K WHERE SH\_SE\_3PAR\_  
FCPort\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplementa  
\FC Port Key) Group By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR FC Port Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3PAR Disk Performance Statistics for the latest collection time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR FC Port Statistics)\Full Date) in (S  
elect max(SD\_SE\_3PAR\_FCPort\_Stats.ta\_p  
eriod) from SD\_SE\_3PAR\_FCPort\_Stats, K  
\_SE\_Storage\_Port K WHERE SD\_SE\_3PAR\_  
FCPort\_Stats.dsi\_key\_id\_ = K.dsi\_key\_id  
and K.dsi\_key\_id=@Select(Supplementa  
\\FC Port Key) Group By K.dsi\_key\_id )

Class:	Raw HP 3PAR AVG Storage System Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage System Volume Performa  
nce Statistics for the latest collection  
time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage System Volume Statistic  
s)\Full Date) in (Select max(SR\_SE\_3PAR  
\_SSAGVol\_Stats.ta\_period) from SR\_SE\_3  
PAR\_SSAGVol\_Stats, K\_SE\_Storage\_Volume  
K WHERE SR\_SE\_3PAR\_SSAGVol\_Stats.dsi  
\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_  
id=@Select(Supplemental\Storage Volume  
Key) Group By K.dsi\_key\_id )

Class:	Hourly HP 3PAR AVG St orage System Volume Statistics
--------	--



Description:

Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage System Volume Performance Statistics for the latest collection  
time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage System Volume Statistics)\Full Date) in (Select max(SD\_SE\_3PAR  
\_SSAGVol\_Stats.ta\_period) from SD\_SE\_3  
PAR\_SSAGVol\_Stats, K\_SE\_Storage\_Volume  
K WHERE SD\_SE\_3PAR\_SSAGVol\_Stats.dsi  
\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_  
id=@Select(Supplemental\Storage Volume  
Key) Group By K.dsi\_key\_id )

Class:	Daily HP 3PAR AVG Storage System Volume Statistics
Description:	

Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage System Volume Performance Statistics for the latest collection  
time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage System Volume Statistics)\Full Date) in (Select max(SH\_SE\_3PAR  
\_SSAGVol\_Stats.ta\_period) from SH\_SE\_3  
PAR\_SSAGVol\_Stats, K\_SE\_Storage\_Volume  
K WHERE SH\_SE\_3PAR\_SSAGVol\_Stats.dsi  
\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_  
id=@Select(Supplemental\Storage Volume  
Key) Group By K.dsi\_key\_id )

Class:	HourlyOLAP-HP 3PAR AVG Storage System Volume Statistics
Description:	

Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage System Volume Performance

nce Statistics for the latest collection  
time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage System Volume Statistic  
s)\Full Date) in (Select max(SD\_SE\_3PAR  
\_SSAGVol\_Stats.ta\_period) from SD\_SE\_3  
PAR\_SSAGVol\_Stats, K\_SE\_Storage\_Volume  
K WHERE SD\_SE\_3PAR\_SSAGVol\_Stats.dsi  
\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_  
id=@Select(Supplemental\Storage Volume  
Key) Group By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR AV G Storage System Volu me Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage System Volume Performa  
nce Statistics for the latest collection  
time ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage System Volume Statistic  
s)\Full Date) in (Select max(SH\_SE\_3PAR  
\_SSAGVol\_Stats.ta\_period) from SH\_SE\_3  
PAR\_SSAGVol\_Stats, K\_SE\_Storage\_Volume  
K WHERE SH\_SE\_3PAR\_SSAGVol\_Stats.dsi  
\_key\_id\_ = K.dsi\_key\_id and K.dsi\_key\_  
id=@Select(Supplemental\Storage Volume  
Key) Group By K.dsi\_key\_id )

Class:	Raw HP 3PAR AVG Storage Pool Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to display HP 3  
PAR AVG Storage Pool Volume Performanc  
e Statistics for the latest collection ti  
me ONLY.

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage Pool Volume Statistics)  
\Full Date) in (Select max(SR\_SE\_3PAR\_S  
PAGVol\_Stats.ta\_period) from SR\_SE\_3PA

R\_SPAGVol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SR\_SE\_3PAR\_SPAGVol\_Stats.dsi\_k  
ey\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id  
=@Select(Supplemental\Storage Volume K  
ey) Group By K.dsi\_key\_id )

Class:	Hourly HP 3PAR AVG Storage Pool Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to HP 3PAR AVG  
Storage Pool Volume Performance Statis  
tics for the latest collection time ONLY

.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage Pool Volume Statistics)  
\Full Date) in (Select max(SD\_SE\_3PAR\_S  
PAGVol\_Stats.ta\_period) from SD\_SE\_3PA  
R\_SPAGVol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SD\_SE\_3PAR\_SPAGVol\_Stats.dsi\_k  
ey\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id  
=@Select(Supplemental\Storage Volume K  
ey) Group By K.dsi\_key\_id )

Class:	Daily HP 3PAR AVG Storage Pool Volume Statistics
Description:	

#### Latest Collection Time

Description:Filters data to HP 3PAR AVG  
Storage Pool Volume Performance Statis  
tics for the latest collection time ONLY

.  
Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage Pool Volume Statistics)  
\Full Date) in (Select max(SH\_SE\_3PAR\_S  
PAGVol\_Stats.ta\_period) from SH\_SE\_3PA  
R\_SPAGVol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SH\_SE\_3PAR\_SPAGVol\_Stats.dsi\_k  
ey\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id  
=@Select(Supplemental\Storage Volume K  
ey) Group By K.dsi\_key\_id )

Class:	HourlyOLAP-HP 3PAR A VG Storage Pool Volum
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## e Statistics

Description:

### Latest Collection Time

Description:Filters data to HP 3PAR AVG  
Storage Pool Volume Performance Statistics for the latest collection time ONLY

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage Pool Volume Statistics)  
\Full Date) in (Select max(SD\_SE\_3PAR\_S  
PAGVol\_Stats.ta\_period) from SD\_SE\_3PA  
R\_SPAGVol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SD\_SE\_3PAR\_SPAGVol\_Stats.dsi\_k  
ey\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id  
=@Select(Supplemental\Storage Volume K  
ey) Group By K.dsi\_key\_id )

Class:	DailyOLAP-HP 3PAR AV G Storage Pool Volume Statistics
Description:	

### Latest Collection Time

Description:Filters data to HP 3PAR AVG  
Storage Pool Volume Performance Statistics for the latest collection time ONLY

Where Equivalent:@Select(DATETIME(HP 3  
PAR AVG Storage Pool Volume Statistics)  
\Full Date) in (Select max(SH\_SE\_3PAR\_S  
PAGVol\_Stats.ta\_period) from SH\_SE\_3PA  
R\_SPAGVol\_Stats, K\_SE\_Storage\_Volume K  
WHERE SH\_SE\_3PAR\_SPAGVol\_Stats.dsi\_k  
ey\_id\_ = K.dsi\_key\_id and K.dsi\_key\_id  
=@Select(Supplemental\Storage Volume K  
ey) Group By K.dsi\_key\_id )

Class:	Date Time Period
Description:	

### Gap Filter

Description:Used to fill the values for the missing date ranges

Where Equivalent:DATETIME.TIME\_FULL\_D

ATE < convert(date,cast(Year(getSHRDate())+1 as char(4))+ '-01-01')

#### Use Custom Range

Description:Use Custom Range Filter List of Values for Date Range Prompt

Where Equivalent:@Variable('Select Date Range')='Use Custom Range'

#### DateTimeRange

Description:Date Time Range Filter Prompt with Various List of Values for Time Period

Where Equivalent:DATETIMERANGE.DATE\_R

ANGE = @Prompt('Select Date Range','A',  
{ 'Current Month','Last Month','Last 3 Months','Use Custom Range'},mono,constrained,persistent,{ 'Current Month'})

## Hierarchies

MA\_GEN\_HIE\_HP3PAR Storage System Hierarchy(HP3PARStorageSystem(HP 3PAR Storage System Statistics))

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/SOM Source Name

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/Tenant Name

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/Vendor

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/Model

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/Storage System Name

HP3PARStorageSystem(HP 3PAR Storage System Statistics)/Storage System UUID

MA\_GEN\_HIE\_DATETIMEHierarchy(DATETIME(HP 3PAR Storage System Statistics))

DATETIME(HP 3PAR Storage System Statistics)/Year

DATETIME(HP 3PAR Storage System Statistics)/Month

DATETIME(HP 3PAR Storage System Statistics)/Day

DATETIME(HP 3PAR Storage System Statistics)/Hour

MA\_GEN\_HIE\_HP3PAR Storage Volume Hierarchy(HP3PARStorageVolume(HP 3PAR Storage Volume Statistics))

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/SOM Source Name

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Tenant Name

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Vendor

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Model

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Storage System Name

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Block Pool Name

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Block Volume Name

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Storage System UUID

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Block Pool UUID

HP3PARStorageVolume(HP 3PAR Storage Volume Statistics)/Block Volume UUID

MA\_GEN\_HIE\_DATETIMEHierarchy(DATETIME(HP 3PAR Storage Volume Statistics))

DATETIME(HP 3PAR Storage Volume Statistics)/Year

DATETIME(HP 3PAR Storage Volume Statistics)/Month

DATETIME(HP 3PAR Storage Volume Statistics)/Day

---

DATETIME(HP 3PAR Storage Volume Statistics)/Hour

MA\_GEN\_HIE\_HP3PAR Processor System Hierarchy(HP3PARStorageProcessor(HP 3PAR Controller Statistics))

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/SOM Source Name

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Tenant Name

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Vendor

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Model

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Storage System Name

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Block Processor Name

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Storage System UUID

HP3PARStorageProcessor(HP 3PAR Controller Statistics)/Block Processor UUID

MA\_GEN\_HIE\_DATETIMEHierarchy(DATETIME(HP 3PAR Controller Statistics))

DATETIME(HP 3PAR Controller Statistics)/Year

DATETIME(HP 3PAR Controller Statistics)/Month

DATETIME(HP 3PAR Controller Statistics)/Day

DATETIME(HP 3PAR Controller Statistics)/Hour

MA\_GEN\_HIE\_HP3PAR Disk Drive Hierarchy(HP3PARDiskDrive(HP 3PAR Disk Statistics))

HP3PARDiskDrive(HP 3PAR Disk Statistics)/SOM Source Name

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Tenant Name

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Vendor

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Model

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Storage System Name

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Disk Drive Name

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Storage System UUID

HP3PARDiskDrive(HP 3PAR Disk Statistics)/Disk Drive UUID

MA\_GEN\_HIE\_DATETIMEHierarchy(DATETIME(HP 3PAR Disk Statistics))

DATETIME(HP 3PAR Disk Statistics)/Year

DATETIME(HP 3PAR Disk Statistics)/Month

DATETIME(HP 3PAR Disk Statistics)/Day

DATETIME(HP 3PAR Disk Statistics)/Hour

MA\_GEN\_HIE\_HP3PAR Port Hierarchy(HP3PARStoragePort(HP 3PAR FC Port Statistics))

HP3PARStoragePort(HP 3PAR FC Port Statistics)/SOM Source Name

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Tenant Name

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Vendor

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Model

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Storage System Name

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Block Processor Name

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Port Name

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Storage System UUID

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Block Processor UUID

HP3PARStoragePort(HP 3PAR FC Port Statistics)/Port UUID

MA\_GEN\_HIE\_DATETIMEHierarchy(DATETIME(HP 3PAR FC Port Statistics))

DATETIME(HP 3PAR FC Port Statistics)/Year

DATETIME(HP 3PAR FC Port Statistics)/Month

DATETIME(HP 3PAR FC Port Statistics)/Day

DATETIME(HP 3PAR FC Port Statistics)/Hour

MA\_GEN\_HIE\_HP3PAR Storage System Hiera

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rchy(HP3PARStorageSystem(HP 3PAR AVG S
torage System Volume Statistics))
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/SOM Source Name
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/Tenant Name
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/Vendor
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/Model
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/Storage System Name
  HP3PARStorageSystem(HP 3PAR AVG Storage System Volume Statistics)/Storage System UUID
MA_GEN_HIE_DATETIMEHierarchy(DATETIME(HP 3PAR AVG Storage System Volume Statistics))
  DATETIME(HP 3PAR AVG Storage System Volume Statistics)/Year
  DATETIME(HP 3PAR AVG Storage System Volume Statistics)/Month
  DATETIME(HP 3PAR AVG Storage System Volume Statistics)/Day
  DATETIME(HP 3PAR AVG Storage System Volume Statistics)/Hour
MA_GEN_HIE_HP3PAR Storage Pool Hierarchy(HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics))
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/SOM Source Name
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Tenant Name
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Vendor
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Model
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Storage System Name
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Block Pool Name
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Storage System UUID
  HP3PARStoragePool(HP 3PAR AVG Storage Pool Volume Statistics)/Block Pool UUID
MA_GEN_HIE_DATETIMEHierarchy(DATETIME(HP 3PAR AVG Storage Pool Volume Statistics))
  DATETIME(HP 3PAR AVG Storage Pool Volume Statistics)/Year
  DATETIME(HP 3PAR AVG Storage Pool Volume Statistics)/Month
  DATETIME(HP 3PAR AVG Storage Pool Volume Statistics)/Day
  DATETIME(HP 3PAR AVG Storage Pool Volume Statistics)/Hour

```

## Context List

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MA_GEN_CONT_SD_SE_3PAR_SSAGVol_Stats
MA_GEN_CONT_SH_SE_3PAR_Cntrlr_Stats
MA_CUST_CONT_StorageVolume
MA_GEN_CONT_SR_SE_3PAR_Cntrlr_Stats
MA_GEN_CONT_SR_SE_3PAR_SPAGVol_Stats
MA_GEN_CONT_SH_SE_3PAR_Stor_Vol_Stats
MA_GEN_CONT_SD_SE_3PAR_Stor_Sys_Stats
MA_CUST_CONT_StoragePool
MA_GEN_CONT_SR_SE_3PAR_Stor_Sys_Stats
MA_GEN_CONT_SR_SE_3PAR_Disk_Stats
MA_GEN_CONT_SH_SE_3PAR_Disk_Stats
MA_GEN_CONT_SH_SE_3PAR_SSAGVol_Stats
MA_CUST_CONT_StorageDiskDrive
MA_GEN_CONT_SR_SE_3PAR_SSAGVol_Stats
MA_GEN_CONT_SD_SE_3PAR_SPAGVol_Stats
MA_CUST_CONT_StoragePort

```

MA\_GEN\_CONT\_SD\_SE\_3PAR\_FCPort\_Stats  
MA\_GEN\_CONT\_SD\_SE\_3PAR\_Stor\_Vol\_Stats  
MA\_GEN\_CONT\_SR\_SE\_3PAR\_Stor\_Vol\_Stats  
MA\_GEN\_CONT\_SD\_SE\_3PAR\_Disk\_Stats  
MA\_GEN\_CONT\_SD\_SE\_3PAR\_Cntrlr\_Stats  
MA\_GEN\_CONT\_SH\_SE\_3PAR\_Stor\_Sys\_Stats  
MA\_GEN\_CONT\_SH\_SE\_3PAR\_FCPort\_Stats  
MA\_GEN\_CONT\_SH\_SE\_3PAR\_SPAGVol\_Stats  
MA\_GEN\_CONT\_SR\_SE\_3PAR\_FCPort\_Stats



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**Feedback on Content Pack for HP 3PAR Performance Statistics Universe Reference, March 2015  
(Storage Operations Manager 10.00)**

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to [storage-management-doc-feedback@hp.com](mailto:storage-management-doc-feedback@hp.com).