

Understanding the OVPA Datapipe

Software Version: 2.8

HP OpenView Performance Insight

December 2005



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1 Overview

HP OpenView Performance Insight (OVPI) is a performance management and reporting application. Long-term data collection, in-depth analysis, and automated web-based reporting are this application's primary strengths. The System Resource Report Pack installs on OVPI. This package contains a main package and multiple sub-packages. The main package and the sub-packages do not share the same datapipe. The main package can use three datapipe:

- SysRes RFC 1514 Datapipe 4.0
- SysRes OVPA Datapipe 2.8
- SysRes OVPA Collection Datapipe 1.0

Each sub-package has a built-in datapipe. For more about sub-package collections, refer to the *System Resource Report Pack 4.1 User Guide*.

SysRes 1514 Datapipe

The SysRes RFC 1514 Datapipe collects the following data from the Host Resources MIB:

- CPU utilization
- Memory utilization
- Number of page outs
- Run queue length
- Swap utilization

SysRes OVPA Datapipe

The SysRes OVPA Datapipe collects performance data from two OpenView agents:

- HP OpenView Performance Agent (OVPA)
- Embedded Performance Component of HP OpenView Operations (OVOA)

OVOA, which is also known as EPC, ships with OpenView Operations for Unix (OVOU) 7.0 and OpenView Operations for Windows (OVOW) 7.0. If you are using OVOU 7.0 or OVOW 7.0, the SysRes OVPA Datapipe collects metrics from EPC. If you are using an earlier version of OVO, UNIX or Windows, the SysRes OVPA Datapipe collects metrics from OVPA.

The metrics gathered by OVPA are different from the metrics gathered by EPC. For details about how the metrics vary, refer to *Metrics for HP OV Performance Agent and Operations Agent*. You can download this document from the OpenView support site. The document appears in two places on the Product Manuals Search page, under *Operations for Windows*, and also under *Operations for UNIX*.

SysRes OVPA Collection Datapipe

The SysRes OVPA Datapipe has one prerequisite, the SysRes OVPA Collection Datapipe. The SysRes OVPA Collection Datapipe performs the following tasks:

- Discovers OVPA or EPC performance agents
- Inserts pa_collect statements into the trendtimer.sched file
- Populates the OVPA type group for use in the collection process

The discovery process runs once a day. It is controlled by the OVPA_Collection_Daily.pro file. The discovery process attempts to check all of the nodes in ksi_managed_node table. Because SNMP discovery is only capable of discovering SNMP-pollable devices, you may want to add OVPA or EPC systems using the create node tool.

Once the discovery process starts, it will write to the pa_discovery.data file in the DPIPE_HOME/data directory. The pa_discovery.data file contains the systems the discovery process finds. After the discovery process is complete, ee_collect loads the pa_discovery.data file into OVPI. The data is placed in the K_padatasources table.

SysRes OVPA Datapipe Version History

The following table outlines recent enhancements to the SysRes OVPA Datapipe.

| Version | Release Date | Features/Enhancements |
|---------|---------------|--|
| 1.0 | May 2003 | Initial release. |
| 2.0 | October 2003 | Oracle support. |
| 2.5 | April 2004 | Fixed bug ROSmm36178, related to redundant collections and constraint violation. |
| 2.6 | November 2004 | Node discovery moved to SysRes OVPA Collection Datapipe. |
| 2.8 | June 2005 | Fixed bug QCCR1000214002, related to incorrect system availability data. |
| 2.8 | December 2005 | No changes. |

Sources for Additional Information

The following documents are related to this manual:

- *SysRes OVPA Datapipe 2.8 Release Statement*
- *SysRes OVPA Collection Datapipe 1.0 Release Statement*
- *SysRes RFC1514 Datapipe 4.0 Release Statement*
- *Metrics for HP OV Performance Agent and Operations Agent, January 2005*
- *HP OpenView Performance Agent Dictionary of Operating System Performance Metrics*

- *HP OpenView Performance Agents Metrics Help Text*
- *System Resource Report Pack 4.1 User Guide*
- *OVPI Report Packs, Version 8.0: Release Notes, June 2005*

User guides for the report packs that install on OVPI can be downloaded from here:

<http://www.managementsoftware.hp.com>

Select **Support > Product Manuals** to reach the **Product Manuals** page. The user guides for OVPI are listed under **Performance Insight**. The user guides for report packs and datapipes are listed under **Performance Insight Reporting Solutions**. The metrics document listed above appears in two places, under *OVO for Windows* and also under *OVO for UNIX*.

The manuals listed under **Performance Insight Reporting Solutions** show the month and year of publication. If a manual is revised and reposted, the date of publication will change. Since we post updated manuals on a regular basis, we recommend searching this site for updates before you use of an older manual that might not be the latest version available.

2 Installation and Agent Discovery

This chapter covers the following topics:

- Guidelines for a smooth install
- Prerequisites
- Installing the SysRes OVPA Datapipe
- Verifying system discovery
- Configuring a remote poller

Guidelines for a Smooth Install

The reporting solutions created for OVPI consist of two installable packages, a report pack and a datapipe. Some report packs have multiple datapipes. When you install the datapipe, you configure OVPI to collect a specific type of performance data at a specific polling interval. When you install the report pack, you configure OVPI to summarize and aggregate the data collected by the datapipe.

The December 2005 report pack CD contains the latest report packs and datapipes. If the packages on this CD have already been extracted to the Packages directory on your system, then every package, including the SysRes OVPA Datapipe, is available for installation and can be installed by starting Package Manager and following the on-screen instructions. If packages have not been extracted, use the extract procedure later in this chapter.

The SysRes OVPA Datapipe is not a prerequisite for the System Resource Report Pack. You may install the SysRes OVPA Datapipe when you install the System Resource Report Pack, or you may install the SysRes OVPA Datapipe later, after you install the report pack. The SysRes OVPA Datapipe has a dependency, the SysRes OVPA Collection Datapipe. If you do not select the SysRes OVPA Collection Datapipe for installation, Package Manager will select and install this datapipe for you, automatically.

Installing the SysRes OVPA Datapipe

This section covers the following tasks:

- Task 1: Extract packages from the report pack CD
- Task 2: Install two packages:
 - SysRes OVPA Datapipe 2.8
 - SysRes OVPA Collection Datapipe 1.0

Task 1: Extract packages from the report pack CD

- 1 Log in to the system. On UNIX systems, log in as root.
- 2 Stop OVPI Timer and wait for processes to terminate.
Windows: Select **Settings > Control Panel > Administrative Tools > Services**.
UNIX: As root, type one of the following:
HP-UX: **sh /sbin/ovpi_timer stop**
Sun: **sh /etc/init.d/ovpi_timer stop**
- 3 Insert the report pack CD in the CD-ROM drive. On Windows, a Main Menu displays automatically; on UNIX, mount the CD, navigate to the top-level directory for the CD drive, and type the setup command.
- 4 Select OVPI report packs by typing **1** in the choice field and pressing Enter. The install script displays a percentage complete bar. When extraction finishes, the install script starts Package Manager. The Package Manager welcome window opens.
- 5 When prompted, type your OVPI username and password.

Task 2: Install the datapipes

If you just extracted files from the product CD, start at step 2. Otherwise, begin at step 1.

- 1 From the Management Console select **Tools > Package Manager**. The Package Manager welcome window opens.
- 2 Click **Next**. The Package Location window opens.
- 3 Click **Install**. Approve the default installation directory or use the browse feature to select a different directory if necessary.
- 4 Click **Next**. The Report Deployment window opens. Accept the default for Deploy Reports; accept the default for application server name and port. Type your username and password for the OVPI Application Server.
- 5 Click **Next**. The Package Selection window opens.
- 6 Click the check box next to each of the following packages:
SysRes OVPA Datapipe 2.8
SysRes OVPA Collection Datapipe 1.0
- 7 Click **Next**. The Type Discovery window opens.
- 8 Disable the default to run Type Discovery immediately after package installation.
- 9 Click **Next**. The Selection Summary window opens.
- 10 Click **Install**. The Installation Progress window opens and the install process begins. When the install finishes, a package install complete message appears.
- 11 Click **Done** to return to the Management Console.
- 12 Restart OVPI Timer.

Windows: Select **Settings > Control Panel > Administrative Tools > Services**.

UNIX: As root, type one of the following:

HP-UX: **sh /sbin/ovpi_timer start**

Sun: **sh /etc/init.d/ovpi_timer start**

Verifying Agent Discovery

There are two ways to find out whether any systems have been discovered. The easier way is to open Table Viewer from the Management Console and look at what the property table contains. The other way is to log into the database and run the following command:

```
SELECT * FROM K_pdatasources
```

If no rows appear, no systems have been discovered.

If there are systems in K_pdatasources, those systems should also be in the OVPA type group. Systems are placed into the OVPA type group by the following SQL stored procedure:

```
SR_OVPA_SetOVPAType
```

SR_OVPA_SetOVPAType runs once a day. It is executed by the following SQL script:

```
execute_SR_OVPA_SetOVPAType.sql
```

The script is located in the SR_OVPA_Daily.pro file.

To see the contents of the OVPA type group, use the Group Manager feature within the Management Console. If there are no systems in the OVPA type group, follow these steps:

- 1 From the Management Console, select Polling Policy Manager.
- 2 Use Polling Policy Manager to add systems to the polling group.
- 3 Verify that pa_collect is able to collect statistics from the systems you added; if statistics are being collected from a system, you know that the system is running an OVPA/EPC agent.
- 4 If you cannot collect data from a system in the OVPA type group, remove that system from the group.

If you already have systems defined in OVPI, you can discover the systems that support OVPA/EPC by navigating to the DPIPE_HOME/scripts directory and running the following command:

```
trend_proc -f OVPA_Collection_Daily.pro
```

Configuring a Remote Poller

Manual steps are required to configure a remote poller for OVPA. At the system where you installed the SysRes OVPA Datapipe and the SysRes OVPA Collection Datapipe, follow these steps:

- 1 Stop OVPI Timer on the remote poller.
- 2 Navigate to the DPIPE_HOME/data directory.
- 3 Copy the pa_rpt.cnfg file to the DPIPE_HOME/data directory on the remote poller.
- 4 Navigate to the DPIPE_HOME/collect/SR directory.
- 5 Copy the bcpg files to the DPIPE_HOME/collect/SR directory on the remote poller.
- 6 Using the trendtimer.sched file as a template, add the pa_collect entries to the trendtimer.sched file on the remote poller.
- 7 Create polling policies on the OVPI system the remote poller is using.
- 8 Restart OVPI Timer on the remote poller.

It is important to have the bcp_g files in place before running the first pa_collect on the remote poller. If for some reason pa_collect runs before the bcp_g files are in place, you will need to remove the *.def files in the DPIPE_HOME/collect/SR/60 directory on the remote poller. If you install any of the sub-packages that come with System Resource, you will need to copy those bcp_g files over as well, and create the collection policies for the remote pollers.

3 Data Collection and Table Structure

This chapter covers the following topics:

- Data collection
- Table structure
- Metrics collected by the SysRes OVPA Datapipe
- Daily and hourly processes

Data Collection

The SysRes OVPA Datapipe collects 5 types of metrics. All collections except one occur hourly.

| Metric | Frequency |
|---------------|-----------|
| Global | Hourly |
| Filesystem | Hourly |
| Transaction | Hourly |
| Application | Hourly |
| Configuration | Daily |

If a system is in the OVPA type group, the datapipe collects all five metric types from the system.

All collections except the configuration collection are history-styled collections. When the system is polled, the datapipe returns multiple rows back and each row has a distinct *ta_period*. The first time the collection runs, all rows beginning from midnight the previous day will be returned. The next collection will only return data that has not already been collected.

The history property tables, shown below, contain the last *ta_suptime* value in the lastPoll column. For each collection that follows the first collection, the poller will request data that meets the following criterion: time stamp > value of *lastPoll*

To change the granularity of the data, use the **-E** option for *pa_collect*. For example if you want data granularity of 15 minutes instead of an hour, type this command:

```
pa_collect -i 60 -E 15
```

Changing the frequency of polling is not recommended.

Table Structure

This section provides matrix information for the following tables:

- Data tables
- Property tables
- History property tables

Data Table Matrix

| Raw Table | Rate Table | Property Table | Teel File |
|----------------------|----------------------|-----------------------|-----------------------------|
| xSR_OVPA_config | RSR_OVPA_config | K_OVPA_config | SysResOVPA_Config.teel |
| xSR_OVPA_filesystem | RSR_OVPA_filesystem | K_OVPA_filesystem | SysResOVPA_Filesystem.teel |
| xSR_OVPA_global | RSR_OVPA_global | K_OVPA_global | SysResOVPA_Global.teel |
| xSR_OVPA_application | RSR_OVPA_application | K_AppOVPA_application | SysResOVPA_application.teel |
| xSR_OVPA_transaction | RSR_OVPA_transaction | K_TrانOVPA_tran | SysResOVPA_Transaction.teel |

Property Table Matrix

| Property Table | Teel File |
|-----------------------|----------------------------------|
| K_OVPA_config | prop_SysResOVPA_config.teel |
| K_OVPA_filesystem | prop_SysResOVPA_filesystem.teel |
| K_OVPA_global | prop_SysResOVPA_global.teel |
| K_AppOVPA_application | prop_AppOVPA_app.teel |
| K_TrانOVPA_tran | prop_TrانOVPA_tran.teel |
| K_padasources | prop_SysResOVPA_padasources.teel |

History Property Table Matrix

| Property Table | History Property Table | History Teel File |
|-----------------------|---------------------------|---|
| K_OVPA_filesystem | K_OVPA_filesystem_history | prop_SysResOVPA_filesystem_history.teel |
| K_OVPA_global | K_OVPA_global_history | prop_SysResOVPA_global_history.teel |
| K_AppOVPA_application | K_AppOVPA_app_history | prop_AppOVPA_app_history.teel |
| K_TrانOVPA_tran | K_TrانOVPA_tran_history | prop_TrانOVPA_tran_history.teel |

Metrics Collected by the System Resource OVPA Datapipe

The System Resource OVPA Datapipe collects metrics from the following metric classes:

- Global
- Filesystem
- Transaction
- Application
- Configuration

Configuration Metrics

The collection table is RSR_OVPA_config. Supported metrics vary from platform to platform and from OVPA to EPC.

| Metric | Description |
|------------------|---|
| GBL_MEM_PHYS | Amount of physical memory in the system. |
| GBL_MEM_FREE | Amount of memory not allocated in the system. |
| GBL_SYSTEM_ID | System ID |
| GBL_MACHINE | System type |
| GBL_OSNAME | Operating system |
| GBL_OSRELEASE | Current release of the operating system |
| GBL_OSVERSION | Operating system version |
| GBL_COLLECTOR | Collector name and version |
| GBL_NUM_CPU | Number of CPUs on the system |
| GBL_NUM_DISKS | Number of disks on the system |
| GBL_NUM_NETWORKS | Number of LAN interfaces on the system |

Filesystem Metrics

The collection table is RSR_OVPA_filesystem. Supported metrics vary from platform to platform and from OVPA to EPC.

| Metric | Description |
|---------------|---|
| FS_DEVNAME | Path name string of the current device. |
| FS_DEVNO | Internal device number that the OS associates with a disk device. |
| FS_DIRNAME | The filesystem name or drive letter. |
| FS_TYPE | The filesystem type. |

| Metric | Description |
|---------------|---|
| FS_MAX_SIZE | Maximum size of the filesystem in MBs. |
| FS_SPACE_UTIL | Percentage of the file system space in use during the interval. |
| INTERVAL | Number of seconds in the measurement interval. |

Application Metrics

The collection tables RSR_OVPA_application. Supported metrics vary from platform to platform and from OVPA to EPC.

| Metric | Description |
|--------------------|---|
| APP_NAME | The total alive-process-time/interval-time ratios of every process that is active (uses any CPU time) during an interval. |
| APP_CPU_TOTAL_UTIL | The total alive-process-time/interval-time ratios for every process. |
| APP_CPU_TOTAL_TIME | Total time, in seconds, that the CPU was not idle. |
| APP_MEM_VIRT | Percentage of time the CPU was not idle. |
| APP_ALIVE_PROC | Number of physical IOs. |
| APP_ACTIVE_PROC | Total number of page outs to the disk per second. |
| INTERVAL | Number of seconds in the measurement interval. |

Transaction Metrics

The collection table is RSR_OVPA_transaction. Supported metrics vary from platform to platform and from OVPA to EPC.

| Metric | Description |
|-----------------------------|--|
| TT_ABORT | Number of aborted transaction. |
| TT_ABORT_WALL_TIME_PER_TRAN | Average time in sec per aborted transaction. |
| TT_APP_NAME | The registered ARM application name. |
| TT_COUNT | Number of completed transactions. |
| TT_NAME | The registered transaction Name. |
| TT_SLO_COUNT | Total number of page outs to the disk per second. |
| TT_SLO_PERCENT | Number of successful packets per second received through all network interfaces. |

| Metric | Description |
|-----------------------|--|
| TT_SLO_THRESHOLD | Number of successful packets received through all network interfaces. |
| TT_WALL_TIME_PER_TRAN | Number of successful packets per second sent through all network interfaces. |
| INTERVAL | Number of seconds in the measurement interval. |

Global Metrics

The collection table is RSR_OVPA_global. Supported metrics vary from platform to platform and from OVPA to EPC agents.

| Metric | Description |
|-------------------------|---|
| GBL_ACTIVE_PROC | The total alive-process-time/interval-time ratios of every process that is active (uses any CPU time) during an interval. |
| GBL_ALIVE_PROC | The total alive-process-time/interval-time ratios for every process. |
| GBL_CPU_TOTAL_TIME | The total time, in seconds, that the CPU was not idle. |
| GBL_CPU_TOTAL_UTIL | Percentage of time the CPU was not idle. |
| GBL_DISK_PHYS_IO | The number of physical IOs. |
| GBL_MEM_PAGEOUT_RATE | The total number of page outs to the disk per second. |
| GBL_NET_IN_PACKET_RATE | Number of successful packets per second received through all network interfaces. |
| GBL_NET_IN_PACKET | Number of successful packets received through all network interfaces. |
| GBL_NET_OUT_PACKET_RATE | Number of successful packets per second sent through all network interfaces. |
| GBL_NET_OUT_PACKET | Number of successful packets sent through all network interfaces. |
| GBL_RUN_QUEUE | Average number of –runnable• processes over all processors. |
| GBL_STARTED_PROC | Number of processes that started during the interval. |
| GBL_SWAP_SPACE_UTIL | The percent of swap space used. |
| GBL_MEM_UTIL | The percent of physical memory in use. |
| INTERVAL | Number of seconds in the measurement interval. |

Daily and Hourly Processes

At 1:00 a.m., when the SR_OVPA_Daily.pro file is invoked, two events take place:

- 1 The OVPA type group is populated.
- 2 The update_device_properties.sql script runs.

The update_device_properties.sql script updates K_OVPA_config and K_Node with system information. The information added to K_Node is used to identify the vendor, system model, and the operating system.

Once an hour, when the SR_OVPA_Hourly.pro file is invoked, the following events take place:

- 1 New systems are processed.
- 2 Two tables are updated:
 - Filesystem property table
 - Transaction property table
- 3 Data is mapped from datapipe rate tables to report pack base tables.



For details about data mapping, see the next chapter.

Processing a New System

New systems are found and added to K_Node before the summaries run. This stored procedure is responsible for adding a new system to K_Node:

```
ppSR_OVPA_SetIDs
```

It is invoked by this SQL script:

```
execute_SR_OVPA_SetIDs.sql
```

The stored procedure performs two actions:

- Populates K_Node with the new system
- Adds the dsi_key_id value for that system from K_Node to the node_fk column in the datapipe property table

Updating Tables

The filesystem update is update_filesystem_property_table.sql. The file system update populates the K_OVPA_filesystem property table with the filesystem name.

The transaction update is update_Trans_ProTables.sql. On a per-transaction basis, the transaction update populates the SLO_Threshold column in the property table K_Transaction_ByTran, using values from the SLO_Threshold column in the K_TransOVPA_tran property table.

4 Hourly Data Mapping

This chapter covers the following topics:

- SR_OVPA_Hourly.pro file
- Mapping RSR_OVPA_global to SR_SR_Kernel
- Mapping RSR_OVPA_filesystem to SR_SR_Filesystem
- Mapping RSR_OVPA_global to SR_SR_SysVol
- Mapping RSR_OVPA_application to SRApp_application
- Mapping RSR_OVPA_transaction to SRTran_Transaction

If you need to know more about the collections performed by the sub-packages (CPU, Process, Disk, Logical Volume, Network Interface), refer to Chapter 2, Data Collection, in the *System Resource Report Pack 4.1 User Guide*.

SR_OVPA_Hourly.pro

The scripts in this file set node IDs and run hourly sums.

```
begin: main wait

{DPIPE_HOME}/bin/ovpi_run_sql -sqlscript {DPIPE_HOME}/scripts/
{DBVENDOR}/execute_update_boot_time.sql -logfile {DPIPE_HOME}/tmp/
execute_update_boot_time.out

{DPIPE_HOME}/bin/ovpi_run_sql -sqlscript {DPIPE_HOME}/scripts/
{DBVENDOR}/execute_SR_OVPA_SetIDs.sql

{DPIPE_HOME}/bin/ovpi_run_sql -sqlscript {DPIPE_HOME}/scripts/
{DBVENDOR}/update_filesystem_property_table.sql

{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_global.sum
{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_volume.sum
{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_filesystem.sum
{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_tran.sum
{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_application.sum

{DPIPE_HOME}/bin/ovpi_run_sql -sqlscript {DPIPE_HOME}/scripts/
{DBVENDOR}/execute_SR_Populate.sql -logfile {DPIPE_HOME}/tmp/
execute_SR_Populate.out

{DPIPE_HOME}/bin/trend_sum -f {DPIPE_HOME}/scripts/SR_SR_SysUp.sum
```

```
{DPIPE_HOME}/bin/ovpi_run_sql -sqlscript {DPIPE_HOME}/scripts/
{DBVENDOR}/Update_Trans_ProTables.sql
```

end:

RSR_OVPA_global to SR_SR_Kernel

Purpose: Map metrics from RSR_OVPA_global to the SR_SR_Kernel base table.

| | | |
|--|---------------------------|---------------------|
| File: SR_SR_global.sum source table: RSR_OVPA_global destination table: SR_SR_Kernel by variable: node_fk by variable: ta_period | | |
| Source Metric | Destination Metric | Summary Type |
| GBL_MEM_UTIL | TOTmemoryUtil | tot |
| case when (GBL_MEM_UTIL < 25) then 1 when (GBL_MEM_UTIL < 50) then 2 when (GBL_MEM_UTIL < 75) then 3 when (GBL_MEM_UTIL >= 75) then 4 end | TOTmemoryUtil_grade | tot |
| GBL_RUN_QUEUE | TOTTrunq | tot |
| case when (GBL_RUN_QUEUE < 2) then 1 when (GBL_RUN_QUEUE < 3) then 2 when (GBL_RUN_QUEUE < 4) then 3 when (GBL_RUN_QUEUE >= 4) then 4 end | TOTTrunq_grade | tot |
| GBL_CPU_TOTAL_UTIL | TOTcpuutil | tot |
| case when (GBL_CPU_TOTAL_UTIL < 25) then 1 when (GBL_CPU_TOTAL_UTIL < 50) then 2 when (GBL_CPU_TOTAL_UTIL < 75) then 3 when (GBL_CPU_TOTAL_UTIL >= 75) then 4 end | TOTcpuutil_grade | tot |
| GBL_ALIVE_PROC | TOTavgNumProcs | tot |
| GBL_MEM_PAGEOUT_RATE | AVGmemPageOutRate | avg |
| GBL_SWAP_SPACE_UTIL | TOTswapUtil | avg |
| case when (GBL_SWAP_SPACE_UTIL < 25) then 1 when (GBL_SWAP_SPACE_UTIL < 50) then 2 when (GBL_SWAP_SPACE_UTIL < 75) then 3 when (GBL_SWAP_SPACE_UTIL >= 75) then 4 end | TOTswapUtil_grade | tot |

RSR_OVPA_filesystem to SR_SR_FileSystem

Purpose: Map metrics from RSR_OVPA_filesystem to the SR_SR_FileSystem base table.

| File: SR_SR_filesystem.sum source table: RSR_OVPA_filesystem destination table: SR_SR_FileSystem by variable: node_fk by variable: FSIndexP by variable: ta_period | | |
|---|--------------------|--------------|
| Source Metric | Destination Metric | Summary Type |
| FS_MAX_SIZE | TOTfileSystemSize | tot |
| FS_SPACE_UTIL | TOTfileSystemUtil | tot |

RSR_OVPA_global to SR_SR_SysVol

Purpose: Map metrics from RSR_OVPA_global to the SR_SR_SysVol base table.

| File: SR_SR_volume.sum source table: RSR_OVPA_global destination table: SR_SR_SysVol by variable: node_fk by variable: ta_period | | |
|--|--------------------|--------------|
| Source Metric | Destination Metric | Summary Type |
| GBL_NET_IN_PACKET+GBL_NET_OUT_PACKET | TOTvolume | tot |

RSR_OVPA_application to SRApp_application

Purpose: Map metrics from RSR_OVPA_application to the SRApp_application base table.

| File: SR_SR_application.sum source table: RSR_OVPA_application destination table: SRApp_application by variable: node_fk by variable: prop_app_name by variable: ta_period | | |
|---|--------------------|--------------|
| Source Metric | Destination Metric | Summary Type |
| APP_CPU_TOTAL_UTIL | AVGCPUUtil | avg |
| APP_CPU_TOTAL_UTIL | MAXCPUUtil | max |
| APP_CPU_TOTAL_UTIL | MINCPUUtil | min |
| APP_CPU_TOTAL_TIME | TOTCPUSeconds | tot |
| APP_MEM_VIRT | TOTMemSeconds | tot |
| APP_ALIVE_PROC | TOTProcess | tot |

RSR_OVPA_transaction to SRTran_Transaction

Purpose: Map metrics from RSR_OVPA_transaction to the SRTran_Transaction base table.

| File: SR_SR_tran.sum source table: RSR_OVPA_transaction destination table: SRTran_Transaction by variable: node_fk by variable: Transaction_Name by variable: ta_period column: Completed=TT_COUNT:tot column: Aborted=TT_ABORT:tot column: ResponseTime=TT_WALL_TIME_PER_TRAN:avg,max,min column: SLOPercent=TT_SLO_PERCENT:avg column: Violation=TT_SLO_COUNT:tot | | |
|---|--------------------|--------------|
| Source Metric | Destination Metric | Summary Type |
| TT_WALL_TIME_PER_TRAN | AVGResponseTime | avg |
| TT_WALL_TIME_PER_TRAN | MAXResponseTime | max |
| TT_WALL_TIME_PER_TRAN | MINResponseTime | min |
| TT_COUNT | TOTCompleted | tot |

| | | |
|---|---------------|-----|
| File: SR_SR_tran.sum source table: RSR_OVPA_transaction destination table: SRTran_Transaction by variable: node_fk by variable: Transaction_Name by variable: ta_period column: Completed=TT_COUNT:tot column: Aborted=TT_ABORT:tot column: ResponseTime=TT_WALL_TIME_PER_TRAN:avg,max,min column: SLOPercent=TT_SLO_PERCENT:avg column: Violation=TT_SLO_COUNT:tot | | |
| TT_ABORT | TOTALaborted | tot |
| TT_SLO_PERCENT | AVGSLOPercent | avg |
| TT_SLO_COUNT | TOTViolation | tot |

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