

OSSPI-InfraSPI Migration guide

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Audience

This document is for OSSPI users intending to switch-over or migrate to Infrastructure SPIs.

This document highlights –

1. Key differences between the Unix/Win OSSPIs and Infrastructure SPIs.
2. Features available with OSSPIs which are missing/available in a different way with Infrastructure SPIs.
3. Additional features provided by Infrastructure SPIs that are not available with OSSPIs

Introduction

Infrastructure SPIs contain three SPIs –

Systems Infrastructure SPI (SISPI) – to monitor stand-alone unix or windows systems

Cluster Infrastructure SPI (CISPI) – to monitor cluster environments

Virtual Infrastructure SPI (VISPI) – to monitor various virtualization environments.

SYSTEM MONITORING

With Infrastructure SPIs, SISPI must be used to monitor stand-alone systems.

Following are some of the key differences between OSSPIs and SISPI to be noted w.r.t system monitoring.

Discovery

With OSSPI, the discovery mechanism differs based on the Operations Manager the node is connected to. OMU 8.x uses the Service Discovery Framework (SDF) and OMW uses Service Discovery or the Agtrep component . With Infrastructure SPIs, Agtrep is used for discovery on both OMU and OMW.

Unix OSSPI :

The discovery service map contains the following elements - key processes, CPUs, disks, NICs and filesystems.

The information that is discovered by the discovery modules is stored in dedicated configuration files in <ovdatadir/conf/ossapi> directory. Some of the key files created are : *harddisk.cfg*, *netif.cfg*, *ossapi_fsmon.cfg*, *procmon.cfg*, *ossapi_defect.cfg.long*, *ossapi_defect.cfg.short* . The information in these files is later used for monitoring.

Win OSSPI :

Winossapi auto-discovery contains 2 policies

a) One policy discovers the system infrastructure namely: CPU, Memory, Networking, Storage, Security, Printer, Backup. The policy also discovers the following information regarding the cluster: Cluster service, Network interfaces, and Resource groups

b) Another auto discovery policy discovers the following windows applications in the agent node: MS Internet Information Services, MS indexing services, MS Operation Manager, MS MSMQ server, MS Systems Management Server, MS Distributed Transaction Coordinator, MS Windows Terminal Server

SISPI:

SISPI discovery discovers the following elements in the service map – CPUs, disks, NICs and filesystems. It does not discover the processes as done by OSSPI. The discovery process does not create any configuration files on the node as done by OSSPI.

Process Monitoring

OSSPI:

The processes and process groups which you want to monitor with the OSSPI have to be defined in a specific configuration file. A default configuration file located on the managed node, /var/opt/OV/conf/ossapi/procmon.cfg, is generated when Discovery application is run on the node. However, individual entries in the configuration file (including even single processes in a process group) can be overwritten at any time or extended by means of an additional, local configuration file, procmon_local.cfg in the same directory.

The process monitoring configuration files can be used group a set of processes under a process group, to set the time period (using the 24-hour clock) in which a failure must be reported if it occurs, list the numbers representing the days of the week on which failures should be reported etc

In Win OSSPI, The following services and associated processes are monitored by winosspi

SNo	Application Name	Services monitored by winosspi
1	MS Terminal Server	TermService
2	DHCP	DHCP Client, DHCP Relay Agent, Microsoft DHCP Server
3	DNS	Microsoft DNS Server
4	RAS	Remote Access Autodial Manager
5	WINS	Windows Internet Name Service
6	Microsoft Backoffice application	MSDTC
7	MSMQ	MSMQ
8	MS System Management Server	SMS_SITE_COMPONENT_MANAGER, SMS_SQL_MONITOR, SMS_EXECUTIVE, SMS_CLIENT_SERVICE

Infrastructure SPIs contains individual templates/policies to monitor processes. User can deploy the required templates to the node based on the processes that needs to be monitored. Scheduling of process monitors by specifying a start date and end date is not available.

Filesystem Monitoring

The generic file-system monitor provided with the Smart Plug-in for UNIX Operating Systems tracks the usage levels of all active file systems on any specified host. The OSSPI file-system monitor can:

- obtain information about all active file systems
- obtain information about specific file systems
- reports the inode and space utilization of file systems

If no file-system parameters are specified explicitly, the file-system monitor uses the contents of the configuration file generated by the OSSPI after discovery and located in the following directory on the managed node, `/var/opt/OV/conf/ossapi/ossapi_fsmon.cfg`

The OSSPI discovery process writes information relating to the set of active file systems to this default configuration file. These file systems are given pre-defined thresholds for disk space and inode usage for the severity statuses warning, minor, major, and critical, in increasing order of severity . If customer wants to selectively monitor file systems, `ossapi_global_fsmon.cfg` and `ossapi_local_fsmon.cfg` can be created, in a format similar to `ossapi_fsmon.cfg`.

In WinOSSPI,filesystem based monitoring is not present. Only the following disk parameter monitoring features are available: disk bottleneck, disk busy check, disk space utilization

In SISPI, the template/policy that is used to monitor the filesystem should be edited to perform the required customizations. For eg: changing thresholds for individual filesystems, inclusion/exclusion of filesystems for monitoring.

Performance Monitoring

Unix OSSPI and InfraSPI monitor CPU, Disk, filesystem and memory utilizations.

Unix OSSPI uses single metric of CODA/SCOPE/GLANCE for performance monitoring. Some of the key metrics monitored by OSSPI are :

For monitoring OV Performance/SCOPE metrics, OSSPI writes the definitions defined in the monitor policies to the alarm definition file `<ovdatadir>/conf/ossapi/ossapi_alarmdef`

The OSSPI writes the definitions for GlancePlus to a separate alarm syntax file, <ovdatadir>/conf/osspi/syntax_gp.

Policy Name	Description
CPU_load	CPU load factors 1m
Disk	Disk I/O on local disks 1m
Flock_Tbl	Monitors file locks in use 5m
Fopen_Tbl	Monitors open files 5m
Filesystem	Monitors disk space 5m
Lan_Coll	Monitors network I/O rate
Mem_Load	Monitors the load on memory 1m
Msg_Tbl	Monitors the message table 5m
Proc_Tbl	Monitors process table usage 5m
NetworkAdapter	Monitors network packet collisions and error rates
Sema_Tbl	Monitors semaphore usage 5m
Shmem_Tbl	Monitors shared memory usage 5m
Swap_Res	Monitors the global swap rate and usage 1m

Infrastructure SPIs uses multiple CODA/SCOPE metrics for performance monitoring on both unix and windows systems. For eg: To identify a memory bottleneck condition in the system, it evaluates various memory-related metrics to alert the bottleneck condition. Infrastructure SPIs does not use GLANCE metrics.

Win OSSPI - Following OS performance data are monitored by winosspi

Sno	Perfmon object	Counter
1	Redirector	Current Commands
2	Redirector	Reads Denied/sec
3	Server	Bytes Total/sec
4	Redirector	Network Errors/sec
5	Paging File	% Usage
6	Memory	% Committed Bytes in Use
7	Redirector	Writes Denied/sec

Infrastructure SPIs offer adaptive threshold policies where alerts are generated based on the historic trends on the system. This is a feature not available with OSSPIs.

Log file Monitoring

Unix OSSPI monitors log files on HPUX, Linux, AIX and Solaris to alert on various events – bad logins, su log, audit log, kernel messages log, syslog, mail log, cron log are some of them.

Win OSSPI - **Event log files are monitored for the following applications by winosspi**

- 1) MS Terminal Server
- 2) IIS web Server(SMTPSVC, Ci, NNTPSVC, MSFTPSVC)
- 3) Dell OpenManage(Agent's event log entries, Administrator's event log entries)
- 4) Microsoft Backoffice Applications
- 5) MSMQ
- 6) MS System Management Server

SISPI offers log file monitoring for –

AIX – errpt log

Linux – boot log, kernel log and secure log

Windows – event logs for DHCP, DNS, NFS, terminal services, windows logon.

CLUSTER MONITORING

Cluster Support

Below is the support matrix for various clusters provided by UnixOSSPI/WinOSSPI in comparison with Infrastructure SPIs

	MSCS	MCSG	HACMP	VCS	Solaris Cluster	RHA Cluster
UnixOSSPI	-	N	N	Y	Y	N
WinOSSPI	Y	-	-	-	-	-
Infrastructure SPIs	Y	Y	Y	Y	Y	Y

Cluster Discovery

Unix OSSPI discovers cluster only for Solaris/Sun Clusters. Cluster discovery is not supported on other clusters.

Win OSSPI – The discovery policy also discovers the following information regarding the cluster: Cluster service, Network interfaces, and Resource groups

Infrastructure SPIs contains Cluster Infrastructure SPI(CISPI) for cluster monitoring.

CISPI supports cluster discovery for all the clusters supported by Operations Agent (as mentioned above).

Cluster Monitoring

In Unix OSSPI, cluster monitoring is limited to VCS and MCSG clusters only. Also, monitoring is restricted to cluster log files only. It does not offer cluster availability and cluster process monitoring.

In WinOSSPI,

- A winosspi cluster policy monitors system log in agent machine and forwards cluster related messages

- A cluster policy monitors if clusvc service and associated process is running.

- A cluster policy monitors the windows event log and forwards messages to management server when a resource group fails

- A cluster policy monitors resource groups and alerts the management server whenever a resource group is moved, renamed, deleted

Infrastructure SPIs monitor the cluster availability, cluster processes and also cluster log files for various cluster events.

Virtualization Monitoring

Unix OSSPI and Win OSSPI do not have any support for virtualization monitoring.

Infrastructure SPIs contain Virtual Infrastructure SPI (VISPI) that monitors various virtualization environments. Below table shows the support for various virtualization environments provided by VISPI.

	VMware	Microsoft Hyper-V	IBM LPAR	Solaris Zones	HPVM
UnixOSSPI	N	N	N	Y	Y

WinOSSPI	N	N	N	N	N
Infrastructure SPIs (VISPI)	Y	Y	Y	Y	Y

VISPI supports discovery of virtual environments. It also provides availability, capacity, log file and performance monitoring for virtual environments.

Reports and Graphs

Unix OSSPI does not support reports/graphs.

Win OSSPI – The Windows OS SPI, which is included in the out-of-the-box HP Operations Manager for Windows, comes with an extensive set of reports and some graphs for displaying data.

Reports and graphs are generated by the Reporter data collection policies that gather metric values and forward the data. The information, which is collected nightly, is available to populate reports and graphs as requested.

In addition, the Windows OS SPI also supports integration with HP Reporter 3.6.

Infrastructure SPIs provide various reports and graphs for all the three SPIs. Performance Manager must be installed on the OMW/OMU to view graphs. Reporter must be installed on OMW to view reports. Various graphs and reports can be launched from the alerts as well.

Mapping of WIN OSSPI Policies to InfraSPI Policies

Auto Discovery

Functionality	WinOS SPI Policy	InfraSPI Policy
Discovers Windows applications	WINOSSPI-MSWINApp_AutoDiscovery	NA
Discovers the Windows system infrastructure	WINOSSPI-MSWINSys_AutoDiscovery	SI-SystemDiscovery

Dell OpenManage Server

Functionality	WinOS SPI Policy	InfraSPI Policy(SISPI)
Forwards the Dell OpenManage Server administrator's event entries from the event log	WINOSSPI-DellServer_FwdEventLogEntries	NA
Forwards the Dell OpenManage Server agent's event entries from the event log	WINOSSPI-DellServerAgent_FwdEventLogEntries	NA

Microsoft internet Information Server 5.0

Functionality	WinOS SPI Policy	InfraSPI Policy(SISPI)
Logs selected performance data for IIS logging	WINOSSPI-IIS_Logging	NA
Checks the Requests Queued counter of the Active Server Pages object	WINOSSPI-IIS50_ActiveServerPages_RequestsQueued	NA
Checks for the number of errors per second from Active Server Pages	WINOSSPI-IIS50_AspErrorsSec	NA
Checks for the number of ASP requests that failed because of a preprocessor	WINOSSPI-IIS50_AspPreprocessorErrors	NA

error		
Checks for the total size of all ASP requests, in bytes.	WINOSSPI-IIS50_AspRequestBytesInTotal	NA
Checks for the total size in bytes of ASP responses sent, excluding the HTTP response headers.	WINOSSPI-IIS50_AspRequestBytesOutTotal	NA
Checks for the time in milliseconds that it took the last ASP request to execute.	WINOSSPI-IIS50_AspRequestExecutionTime	NA
Checks for the number of ASP requests that were disconnected because of a communication failure.	WINOSSPI-IIS50_AspRequestsDisconnected	NA
Checks for the number of currently executing ASP requests.	WINOSSPI-IIS50_AspRequestsExecuting	NA
Checks for the number of ASP requests that failed because of rejections, insufficient access rights, or errors.	WINOSSPI-IIS50_AspRequestsFailedTotal	NA
Checks for the number of ASP requests that failed because of insufficient access rights.	WINOSSPI-IIS50_AspRequestsNotAuthorized	NA
Checks for the number of ASP requests for files that could not be found	WINOSSPI-IIS50_AspRequestsNotFound	NA
Checks for the number of ASP requests that are waiting in the queue.	WINOSSPI-IIS50_AspRequestsQueued	NA
Checks for the number of ASP requests that were rejected due to insufficient resources.	WINOSSPI-IIS50_AspRequestsRejected	NA
Checks for the number of ASP requests carried out per second.	WINOSSPI-IIS50_AspRequestsSec	NA
Checks for the number of ASP requests carried out successfully.	WINOSSPI-IIS50_AspRequestsSucceeded	

		NA
Checks for the number of ASP requests that timed out.	WINOSSPI-IIS50_AspRequestsTimedOut	NA
Checks for the total number of ASP requests that occurred since the service was last started.	WINOSSPI-IIS50_AspRequestsTotal	NA
Checks for the time in milliseconds that the latest ASP request waited in the queue.	WINOSSPI-IIS50_AspRequestWaitTime	NA
Checks for the number of ASP requests that failed because of an error during compilation.	WINOSSPI-IIS50_AspScriptCompilerErrors	NA
Checks for the number of ASP script engines in the cache.	WINOSSPI-IIS50_AspScriptEnginesCached	NA
Checks for the number of ASP requests that failed because of a runtime error.	WINOSSPI-IIS50_AspScriptErrors	NA
Checks how long the most recent ASP session lasted in milliseconds.	WINOSSPI-IIS50_AspSessionDuration	NA
Checks for the number of ASP sessions currently being serviced.	WINOSSPI-IIS50_AspSessionsCurrent	NA
Checks for the number of ASP sessions that timed out.	WINOSSPI-IIS50_AspSessionsTimedOut	NA
Checks for the total number of ASP sessions since the service was last started.	WINOSSPI-IIS50_AspSessionsTotal	NA
Checks every five minutes for the percentage of ASP requests that could be met from the template cache.	WINOSSPI-IIS50_AspTemplateCacheHitRate	NA
Checks for the number of templates in the cache that need to be updated.	WINOSSPI-IIS50_AspTemplateNotifications	NA

Checks for the number of aborted ASP transactions.	WINOSSPI-IIS50_AspTransactionsAborted	NA
Checks for the number of committed ASP transactions.	WINOSSPI-IIS50_AspTransactionsCommitted	NA
Checks for the number of ASP transactions currently in progress.	WINOSSPI-IIS50_AspTransactionsPending	NA
Checks for the number of ASP transactions started per second.	WINOSSPI-IIS50_AspTransactionsSec	NA
Checks for the total number of ASP transactions that occurred since the service was last started.	WINOSSPI-IIS50_AspTransactionsTotal	NA
Checks for the number of bytes per second sent and received by the FTP service	WINOSSPI-IIS50_FtpBytesTotalSec	NA
Checks for the number of anonymous connections that are open to the FTP service	WINOSSPI-IIS50_FtpCurrentAnonymousUsers	NA
Checks for the total number of connections that are open to the FTP service	WINOSSPI-IIS50_FtpCurrentConnections	NA
Checks for the number of non-anonymous connections that are open to the FTP service	WINOSSPI-IIS50_FtpCurrentNonAnonymousUsers	NA
Monitors the system log for entries with the severity Warning or Error from MSFTPSVC.	WINOSSPI-IIS50_FtpServerFwdAllSystemWarnError	NA
Checks for the total number of files that the FTP service transferred since it was last started.	WINOSSPI-IIS50_FtpTotalFilesTransferred	NA
Monitors the application log for entries with the severity Warning or Error from IISADMIN or W3SVC	WINOSSPI-IIS50_FwdAllApplicationWarnError	NA
Monitors the system log for entries with the severity Warning or Error from	WINOSSPI-IIS50_FwdAllSystemWarnError	

IISADMIN or W3SVC		NA
Monitors the system log for entries with the severity Warning or Error from IISADMIN or W3SVC.	WINOSSPI-IIS60_FwdAllSystemWarnError	NA
Checks for the number of requests that are blocked temporarily because of bandwidth throttling settings.	WINOSSPI-IIS50_HttpCurrentBlockedAsyncIO	NA
Checks for the total number of connections that is open to the web service.	WINOSSPI-IIS50_HttpCurrentConnections	NA
Checks for the number of files per second that the web service is sending and receiving.	WINOSSPI-IIS50_HttpFilesTotalSec	NA
Checks for the total number of bytes sent and received per second by the web service.	WINOSSPI-IIS50_HttpHealthPerformanceMonitor	NA
Checks for the percentage bandwidth used by asynchronous I/O	WINOSSPI-IIS50_HttpMeasuredIOBandwidth	NA
Checks for the number of errors per second caused by requests to the web service for files that could not be found.	WINOSSPI-IIS50_HttpNotFoundErrors	NA
Checks for the number of requests for files that the web service receives per second.	WINOSSPI-IIS50_HttpRequestsSec	NA
Checks the Files to be Indexed counter of the Indexing Service object.	WINOSSPI-IIS50_IndexingService_FilesToBeIndexed	NA
Checks the # documents indexed counter of the Indexing Service object.	WINOSSPI-IIS50_IndexingService_NoDocumentsIndexed	NA
Checks the Running queries counter of the Indexing Service object	WINOSSPI-IIS50_IndexingService_RunningQueries	NA
Monitors the system log for entries with the severity Warning or Error from the	.	

Content Index Service (CISVC).	WINOSSPI-IIS50_IndexServerFwdAllApplicationWarnError	NA
Checks for the total number of query requests that the index server rejected.	WINOSSPI-IIS50_IndexServerRequestsRejected	NA
Checks the File Cache Hits % counter of the Internet Information Services Global object.	WINOSSPI-IIS50_IISGbl_FileCacheHitsPc	NA
Checks the Messages in Queue counter of the MSMQ Queue object.	WINOSSPI-IIS50_MSMQQueue_MessagesInQueue	NA
Checks every five minutes for the number of entries per second inserted into the NNTP servers article mapping table.	WINOSSPI-IIS50_NntpArticleMapEntriesSec	NA
Checks for the number of articles deleted from the NNTP server per second since it was started.	WINOSSPI-IIS50_NntpArticlesDeletedSec	NA
Checks for the number of articles posted to the NNTP server per second.	WINOSSPI-IIS50_NntpArticlesPostedSec	NA
Checks for the number of articles received by the NNTP server per second.	WINOSSPI-IIS50_NntpArticlesReceivedSec	NA
Checks for the number of articles sent by the NNTP server per second.	WINOSSPI-IIS50_NntpArticlesSentSec	NA
Checks for the number of connections that the NNTP server currently has open.	WINOSSPI-IIS50_NntpServerCurrentConnections	NA
Monitors the system log for entries with Warning or Error severity from the NNTP Service (NNTPSVC).	WINOSSPI-IIS50_NntpServerFwdAllSystemWarnError	NA

Checks the inetinfo instance of the Page Fault/sec counter of the Process object	WINOSSPI-IIS50_Process_PageFaultsSec_inetinfo	NA
Checks the inetinfo instance of the % Processor Time counter of the Process object.	WINOSSPI-IIS50_Process_PctProcessorTime_inetinfo	NA
Checks the inetinfo instance of the Private Bytes counter of the Process object.	WINOSSPI-IIS50_Process_PrivateBytes_inetinfo	NA
Checks the inetinfo instance of the Thread Count counter of the Process object	WINOSSPI-IIS50_Process_ThreadCount_inetinfo	NA
Checks the inetinfo instance of the Working Set counter of the Process object.	WINOSSPI-IIS50_Process_WorkingSet_inetinfo	NA
Checks the Bytes Transmitted/sec counter of the Server object.	WINOSSPI-IIS50_Server_BytesTransmittedSec	NA
Checks every five minutes for the number of mail messages per second that the SMTP server is receiving.	WINOSSPI-IIS50_SmtpMessagesReceivedSec	NA
Checks for the number of mail messages per second that the SMTP server is sending.	WINOSSPI-IIS50_SmtpMessagesSentSec	NA
Checks for the number of open queue files.	WINOSSPI-IIS50_SmtpNumberOfQueueFilesOpen	NA
Monitors the system log for entries with the severity Warning or Error from the SMTP Service (SMTPSVC).	WINOSSPI-IIS50_SmtpServerFwdAllSystemWarnError	NA
Monitors the system log for entries with the severity Warning or Error from the	WINOSSPI-	

SMTP Service (SMTPSVC).	IIS60_SmtpServerFwdAllSystemWarnError	NA
Checks whether the service CISVC and the corresponding process cisvc.exe are running.	WINOSSPI-IIS50_SrvProcMon_CISVC	NA
Checks whether the service IISADMIN and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS50_SrvProcMon_IISADMIN	NA
Checks whether the service MSFTPSVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS50_SrvProcMon_MSFTPSVC	NA
Checks whether the service NNTPSVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS50_SrvProcMon_NNTPSVC	NA
Checks whether the service SMTPSVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS50_SrvProcMon_SMTPSVC	NA
Checks whether the service W3SVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS50_SrvProcMon_W3SVC	NA
Checks Working Set counter of the Process object along with the Available Bytes counter of the Memory object.	WINOSSPI-IIS50_WorkingSet_AvailableBytes	NA

Microsoft internet Information Server 6.0

Functionality	WinOS SPI Policy	InfraSPI Policy
Logs selected performance data for IIS logging	WINOSSPI-IIS_Logging	NA
Monitors the application log for entries with the severity Warning or Error from the Content Index Service (CISVC).	WINOSSPI-IIS60_IndexServerFwdAllApplicationWarnError	NA
Monitors the system log for entries with the severity Warning or Error from MSFTPSVC.	WINOSSPI-IIS60_FtpServerFwdAllSystemWarnError	NA
Monitors the application log for entries with the severity Warning or Error from IISADMIN or W3SVC.	WINOSSPI-IIS60_FwdAllApplicationWarnError	NA
Monitors the system log for entries with Warning or Error severity from the NNTP Service (NNTPSVC).	WINOSSPI-IIS60_NntpServerFwdAllSystemWarnError	NA
Checks for the number of errors per second from Active Server Pages.	WINOSSPI-IIS60_AspErrorsSec	NA
Checks for the number of times ASP.Net application restarts.	WINOSSPI-IIS60_ASPNETApplictaionRestarts	NA
Checks for the number of requests rejected by ASP.Net.	WINOSSPI-IIS60_ASPNETRequestsRejected	NA
Checks for the number of requests that are in a queue.	WINOSSPI-IIS60_ASPNETRequestsQueued	NA
Checks for the time in milliseconds that the latest ASP.Net request waited in the queue.	WINOSSPI-IIS60_ASPNETRequestWaitTime	NA
Checks the number of ASP.Net worker processes running.	WINOSSPI-IIS60_ASPNETWorkerProcessesRunning	NA

Checks for the number of ASP requests that failed because of a preprocessor error.	WINOSSPI-IIS60_AspPreprocessorErrors	NA
Checks for the time in milliseconds that it took the last ASP request to execute.	WINOSSPI-IIS60_AspRequestExecutionTime	NA
Checks for the number of currently executing ASP requests.	WINOSSPI-IIS60_AspRequestsExecuting	NA
Checks for the number of ASP requests that failed because of rejections, insufficient access rights, or errors.	WINOSSPI-IIS60_AspRequestsFailedTotal	NA
Checks for the number of ASP requests that are waiting in the queue.	WINOSSPI-IIS60_AspRequestsQueued	NA
Checks for the number of ASP requests that were rejected due to insufficient resources	WINOSSPI-IIS60_AspRequestsRejected	NA
Checks for the number of ASP requests carried out per second.	WINOSSPI-IIS60_AspRequestsSec	NA
Checks for the time in milliseconds that the latest ASP request waited in the queue.	WINOSSPI-IIS60_AspRequestWaitTime	NA
Checks for the number of ASP requests that failed because of an error during compilation.	WINOSSPI-IIS60_AspScriptCompilerErrors	NA
Checks for the number of ASP requests that failed because of a runtime error.	WINOSSPI-IIS60_AspScriptErrors	NA
Every for the number of bytes per second sent and received by the FTP service.	WINOSSPI-IIS60_FtpBytesTotalSec	NA
Checks for the number of anonymous connections that are	WINOSSPI-IIS60_FtpCurrentAnonymousUsers	NA

open to the FTP service		
Checks for the total number of connections that are open to the FTP service.	WINOSSPI-IIS60_FtpCurrentConnections	NA
Checks for the number of non-anonymous connections that are open to the FTP service.	WINOSSPI-IIS60_FtpCurrentNonAnonymousUsers	NA
Checks whether the File Replication Service and its corresponding process, ntfrs.exe, are running.	WINOSSPI-IIS60_IISGbl_FilesCacheHitsPc	NA
Checks for the number of articles posted to the NNTP server per second.	WINOSSPI-IIS60_NntpArticlesPostedSec	NA
Checks for the number of articles received by the NNTP server per second.	WINOSSPI-IIS60_NntpArticlesReceivedSec	NA
Checks for the number of articles sent by the NNTP server per second.	WINOSSPI-IIS60_NntpArticleSentSec	NA
Checks the inetinfo instance of the % Processor Time counter of the Process object.	WINOSSPI-IIS60_Process_PctProcessorTime_inetinfo	NA
Checks the Bytes Transmitted/sec counter of the Server object	WINOSSPI-IIS60_Server_BytesTransmittedSec	NA
Checks whether the IIS site is running.	WINOSSPI-IIS60_SiteAvailability	NA
Checks for the number of mail messages per second that the SMTP server is delivering.	WINOSSPI-IIS60_SmtpDeliveredSec	NA
Checks for the number of current inbound connections.	WINOSSPI-IIS60_SmtpInbConnectionCurrent	NA
Checks for the number of mail messages per second that the SMTP	WINOSSPI-IIS60_SmtpMessagesReceivedSec	

server is receiving.		NA
Checks for the number of mail messages per second that the SMTP server is sending.	WINOSSPI-IIS60_SmtpMessagesSentSec	NA
Checks for the number of current outbound connections.	WINOSSPI-IIS60_SmtpOutbConnectionsCurrent	NA
Checks whether the service IISADMIN and the corresponding process inetinfo.exe are running	WINOSSPI-IIS60_SrvProcMon_IISADMIN	SI-MSWindowsWebServerRoleMonitor
Checks whether the service MSFTPSVC and the corresponding process inetinfo.exe are running	WINOSSPI-IIS60_SrvProcMon_MSFTPSVC	SI-MSWindowsFTPServiceRoleMonitor
Checks whether the service NNTPSVC and the corresponding process inetinfo.exe are running	WINOSSPI-IIS60_SrvProcMon_NNTPSVC	NA
Checks whether the service SMTPSVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS60_SrvProcMon_SMTPSVC	NA
Checks whether the service W3SVC and the corresponding process inetinfo.exe are running.	WINOSSPI-IIS60_SrvProcMon_W3SVC	SI-MSWindowsWebServerRoleMonitor
Checks working set counter of the inetinfo process.	WINOSSPI-IIS60_InetinfoWorkingSet	NA
Checks the status of application pools.	WINOSSPI-IIS60_ApplicationPool	NA
Checks total bytes delivered by Web service object per second.	WINOSSPI-IIS60_WWWBytesTotalSec	NA
Checks for the total number of connections that are open to the WWW service.	WINOSSPI-IIS60_WWWCurrentConnections	NA
Checks whether the File Replication Service and its corresponding	WINOSSPI-IIS60_WWWFileCacheHitspct	NA

process are running.		
Checks total files delivered by Web service object per second.	WINOSSPI-IIS60_WWWFilesTotalSec	NA
Checks every five minutes the number of requests Web service object receives per second.	WINOSSPI-IIS60_WWWRequestsSec	NA

Microsoft internet Information Server 5.0/6.0 Reporter

Functionality	WinOS SPI Policy	InfraSPI Policy
IIS Log File Collector Schedule. The iiscollector.exe process allows the collector to scan the IIS Metabase and log data for all sites that have logging enabled	WINOSSPI-IISLogFileCollector	NA

Microsoft Network Infrastructure Services

Functionality	WinOS SPI Policy	InfraSPI Policy
Checks the DHCP Client service and its corresponding process	WINOSSPI-DHCPClient_DHCPClient	NA
Checks the DHCP Relay Agent service and its corresponding process	WINOSSPI-DHCPRelay_DHCPRelayAgent	NA
Checks the Microsoft DHCP Server service and its corresponding process.	WINOSSPI-DHCPsvr_MsDhcpServer	SI-MSWindowsDHCPServerRoleMonitor
Detects disk bottlenecks on a Windows 2000 system.	WINOSSPI-DiskBottleneck_Win2k	SI-DiskCapacityMonitor
Records pages per second for use in creating capacity planning graphs.	WINOSSPI-DNS_LogDNSPagesSec	NA
Checks the Microsoft DNS Server service and its corresponding process.	WINOSSPI-DNS_MsDnsServer	SI-MSWindowsDNSServerRoleMonitor

Monitors the response time given by the DNS server.	WINOSSPI-DNS_Server_Response	NA
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Microsoft Operations Manager

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards all MOM alerts to the HP Operations management server	WINOSSPI-MOM_FwdAllAlerts	NA

Microsoft Certificate Server

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards all event log entries with a severity level of Information.	WINOSSPI-MSCertSv_FwdAllWarnError	NA

Microsoft Cluster Server

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards Cluster-related messages	WINOSSPI-MSCS_ClusterMessages	NA
Checks the Cluster Service service and its corresponding process.	WINOSSPI-MSCS_ClusterService	CI-MSWindowsClusterServiceMonitor
Updates the Cluster resource groups location.	WINOSSPI-MSCS_ClusterUpdate	CI-ClusterResGroupMonitor
Forwards important events	WINOSSPI-MSCS_FwdClusterServiceEvents	CI-MSWindowsClusterServer_NetworkWarnError CI-MSWindowsClusterServer_NodeWarnError CI-MSWindowsClusterServer_StorageWarnError CI-MSWindowsClusterServer_AvailabilityWarnError
Forwards messages related	WINOSSPI-MSCS_ResourceMessages	CI-ClusterResGroupMonitor

to resources.		
Checks if a Resource Group was renamed or deleted, and sends opcmsg if there is a change	WINOSSPI-MSCS_RGExistCheck	NA
Used by the Windows OS SPI Cluster scripts to send messages to the server and set status.	WINOSSPI-MSCS_StatusMessages	NA

Microsoft Indexing Service

Functionality	WinOS SPI Policy	InfraSPI Policy
Indexing Service Files To Be Indexed	WINOSSPI-MSIndexServer_IndexingService_FilesToBeIndexed	NA
Indexing Service Number of Documents Indexed	WINOSSPI-MSIndexServer_IndexingService_NumDocumentsIndexed	NA

Microsoft Message queue server

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards all Application log entries with a severity level of Warning or Error.	WINOSSPI-MSMQ_FwdAllWarnError	NA
Checks the Journal queue.	WINOSSPI-MSMQ_JournalQueue	NA
Checks the MSMQ service and its corresponding process.	WINOSSPI-MSMQ_MSMQ	NA
Checks the Queue size.	WINOSSPI-MSMQ_QueueSize	NA

Microsoft Systems Management Server(SMS) 2003

Functionality	WinOS SPI Policy	InfraSPI Policy
Checks the SMS_SITE_COMPONENT_MANAGER service and the corresponding process	WINOSSPI-SMS2003_SMS_SITE_COMPONENT	NA
Checks the SMS_CLIENT_SERVICE service and the corresponding process	WINOSSPI-SMS2003_SMS_CLIENT_SERVICE	NA
Checks the SMS_EXECUTIVE service and the corresponding process.	WINOSSPI-SMS2003_SMS_EXECUTIVE	NA
Checks the SMS_SQL_MONITOR service and the corresponding process	WINOSSPI-SMS2003_SMS_SQL_MONITOR	NA
Logs performance data for SMS 2003 metrics.	WINOSSPI-SMS2003_Logging	NA
Forwards SMS client component log entries with a severity status of Warning or Error	WINOSSPI-SMS2003_FwdClientWarnError	NA
Forwards SMS generic log entries with a severity status of Warning or Error	WINOSSPI-SMS2003_FwdGenericWarnError	NA
Forwards SMS server component log entries with a severity status of Warning or Error	WINOSSPI-SMS2003_FwdServerWarnError	NA

Microsoft Distributed Transaction Co-ordinator

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards all Application log entries with a severity level of Warning or Error	WINOSSPI-MTS20_FwdAllApplWarnError	NA
Checks the MSDTC service and its corresponding process	WINOSSPI-MTS20_MSDTC	NA

Microsoft Windows Terminal Server

Functionality	WinOS SPI Policy	InfraSPI Policy
Forwards all System log entries with a source of TermService or TermServLicensing and a severity level of Warning or Error	WINOSSPI-WTS_FwdAllSysWarnError	NA
Checks the TermService service and its corresponding process	WINOSSPI-WTS_TermService	SI-MSWindowsTerminalServerRoleMonitor
Checks the TermServLicensing service and its corresponding process	WINOSSPI-WTS_TermServLicensing	SI-MSWindowsTSLicensingRoleMonitor
Checks the Active Sessions counter of the Terminal Services object.	WINOSSPI-WTS_TerminalServices_ActiveSessions-Win2k	NA
Checks the % Processor Time counter of the Terminal Service Session object	WINOSSPI-WTS_TerminalServiceSession_PctProcTime-Win2k	NA
Checks the Total Errors counter of the Terminal Service Session object	WINOSSPI-WTS_TerminalServiceSession_TotalErrors-Win2k	NA
Logs selected performance data for Windows Win2k Terminal Server metrics	WINOSSPI-WTS_Win2k_Logging	NA

Operating Systems: Windows 2000

Functionality	WinOS SPI Policy	InfraSPI Policy(SISPI)
Detects cpu bottlenecks on a Windows 2000 system	WINOSSPI-CpuBottleneck_Win2k	SI-CPUBottleneckDiagnosis
Detects disk bottlenecks on a Windows 2000 system	WINOSSPI-DiskBottleneck_Win2k	SI-DiskCapacityMonitor
Logs Logical Disk performance data for Windows 2000 operating system metrics	WINOSSPI-LogicalDisk_Win2k_Logging	SI-DiskPeakUtilMonitor

Detects memory bottlenecks on a Windows 2000 system	WINOSSPI-MemoryBottleneck_Win2k	SI-MemoryBottleneckDiagnosis
Checks the Bytes Total/sec counter of the Server object	WINOSSPI-Net_BytesTotalSec	NA
Checks the Current Commands counter of the Redirector object	WINOSSPI-Net_CurrentCommands	NA
Checks the Network Errors/sec counter of the Redirector object	WINOSSPI-Net_NetworkErrorsSec	NA
Checks the Reads Denied/sec counter of the Redirector object	WINOSSPI-Net_ReadsDeniedSec	NA
Forwards Perflib application log entries.	WINOSSPI-OS_FwdApplicationWarnError	NA
Checks the Plug and Play service and its corresponding process	WINOSSPI-PlugnPlayService	NA
Checks the Remote Access Autodial Manager service and its corresponding process	WINOSSPI-RAS_RASAutodialManager-Win2k	NA
Checks the Remote Access Connection Manager service and its corresponding process	WINOSSPI-RAS_RASConnectionMgr-Win2k	NA
Checks the Remote Access Server service and its corresponding process	WINOSSPI-RAS_RASServer-Win2k	SI-MSWindowsRRAServicesRoleMonitor
Checks the Remote Procedure Call (RPC) Windows 2000 service and its corresponding process	WINOSSPI-RPCService-Win2k	SI-MSWindowsRpcRoleMonitor
Checks the Spooler service and its corresponding process	WINOSSPI-SpoolerService-Win2k	SI-MSWindowsPrintServiceRoleMonitor
Checks the Average Disk sec/Transfer counter of the LogicalDisk object	WINOSSPI-SysMon_AvgDiskSecTransfer	SI-PerDiskAvgServiceTime-AT
Checks some counters of the Processor object	WINOSSPI-SysMon_CpuSpikeCheck-Win2k	NA
Checks some Disk counters concerning the Logical Disk object	WINOSSPI-SysMon_DiskBusyCheck	NA

Checks some Disk counters concerning the LogicalDisk object	WINOSSPI-SysMon_DiskFullCheck	NA
Checks the % Usage counter of the Paging File object	WINOSSPI-SysMon_PageFileCheck	NA
Checks the Page Reads/sec counter of the Memory object	WINOSSPI-SysMon_PageReadsSec	NA
Checks the AvailableBytes counter of the Memory object	WINOSSPI-SysMon_PhysicalMemCheck	NA
Checks the Writes Denied/sec counter of the Redirector object	WINOSSPI-SysMon_Redirector_WritesDeniedSec	NA
Checks the Pool Nonpaged Failures counter of the Server object	WINOSSPI-SysMon_Server_PoolNonpagedFailures	SI-MSWindowsNonPagedPoolUtilization-AT
Checks the Pool Paged Failures counter of the Server object.	WINOSSPI-SysMon_Server_PoolPagedFailures	SI-MSWindowsPagedPoolUtilization-AT
Checks the Work Item Shortages counter of the Server object.	WINOSSPI-SysMon_Server_WorkItemShortages	NA
Checks the Processor Queue Length counter of the System object.	WINOSSPI-SysMon_System_ProcessorQueueLength	SI-RunQueueLengthMonitor-AT
Checks the % Committed Bytes in Use counter of the Memory object.	WINOSSPI-SysMon_VirtualMemCheck	NA
Logs selected performance data for Windows Win2k OS metrics.	WINOSSPI-WINOS_Win2k_Logging	NA
Checks the Windows Internet Name Service service and its corresponding process.	WINOSSPI-WINS_WinInternetNameSvc	NA

Mapping of UNIX OSSPI Policies to InfraSPI Policies

Auto Discovery

Functionality	UNIX OS SPI Policy	InfraSPI Policy
Discovers Unix Services	OSSPI-Autodiscovery	SI-SystemDiscovery –Discovers only System elements not any services
Discover Sun Cluster components	OSSPI-SunClusterDiscovery	CI-ClusterDiscovery

Log File monitoring

Functionality	UNIX OS SPI Policy	InfraSPI Policy
Monitors the auditing subsystem log.	OSSPI-AIX-AuditLog Supported Platform: AIX	NA
Monitors user logins, bad logins, and switch-user operations from the Debian Linux log file	OSSPI-Linux-authlog Supported Platform: Debian Linux	NA
Monitors unsuccessful user logins.	OSSPI-AIX-BadLogs OSSPI-HPUX-BadLogs OSSPI-SOL-BadLogs OSSPI-Tru64-BadLogs OSSPI-Linux-BadLogins Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-UNIXFailedLoginsCollector
Monitors system boot messages	OSSPI-HPUX-Boot OSSPI-Linux-Boot Supported Platform: HPUX,Linux	SI-LinuxBootLog
Monitors the cron log.	OSSPI-Tru64-cronlog OSSPI-HPUX-Cron OSSPI-linux-redhat_Cron OSSPI-SOL-Cron Supported Platform:	NA

	Tru64, HPUX, Linux Redhat, SOL	
Monitors the kernel message log	OSSPI-HPUX-Dmesg OSSPI-SOL-Dmesg OSSPI-linux-debian_kernellog OSSPI-linux-suse_kernellog OSSPI-AIX-KernelLogs Supported Platform: HPUX, SOL, Linux Debian, LINUX SUSE, AIX	SI-LinuxKernelLog Supported Platform: Linux
Monitors DNS statistics	OSSPI-dnsstat Supported Platform: AIX, HPUX, SOL, Tru64, Linux	NA
Monitors HACMP cluster logs.	OSSPI-AIX_HACMP Supported Platform: HACMP Cluster	NA
Monitors successful user logins	OSSPI-AIX-Logins OSSPI-HPUX-Logins OSSPI-Linux-Logins OSSPI-SOL-Logins OSSPI-Tru64-Logins Supported Platform: AIX, HPUX, SOL, Tru64, Linux	SI-LinuxLastLogonsCollector Supported Platform: Linux
Monitors messages in the RedHat Linux log file	OSSPI-linux-redhat_messages Supported Platform: RHEL	NA
Monitors changes to mail aliases.	OSSPI-mailaliases Supported Platform: AIX, HPUX, SOL, Tru64, Linux	NA
Monitors the sendmail log file	OSSPI-HPUX-maillog OSSPI-Linux-maillog OSSPI-SOL-maillog OSSPI-Tru64-maillog Supported Platform: HPUX, SOL, Tru64, Linux	NA

Monitors the print log file	OSSPI-HPUX-printlog OSSPI-SOL-printlog OSSPI-Tru64-printlog Supported Platform: HPUX,SOL,Tru64	NA
Monitors SNMP configuration file entries.	OSSPI-snmplib Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors SNMP log file entries	OSSPI-HPUX-snmplib OSSPI-SOL-snmplib Supported Platform: AIX,SOL	NA
Monitors the switch user command.	OSSPI-AIX-Su OSSPI-HPUX-Su OSSPI-SOL-Su OSSPI-Tru64-Su Supported Platform: AIX,HPUX,SOL,Tru64	NA
Monitors all messages recorded in the syslog	OSSPI-AIX-syslog OSSPI-HPUX-syslog OSSPI-Linux-syslog OSSPI-SOL-syslog OSSPI-Tru64-syslog Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors messages in the log file of Veritas Volume Manager	OSSPI-Veritaslog Supported Platform: VCS -HPUX,VCS- SOL	NA
Fetches messages from MC/ServiceGuard and forwards to APM.	OSSPI-MCSG_Syslog Supported Platform: MCSG Cluster	NA

Monitors messages in the application service resource log file of Veritas Cluster Server	OSSPI-VCS-ApplicationServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the DiskGroup service resource log file of VCS.	OSSPI-VCS-DiskGroupLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the DiskReservation service resource log file of VCS.	OSSPI-VCS-DiskReservationLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Disk service resource log file of VCS	OSSPI-VCS-DiskServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the ElifNone service resource log file of VCS.	OSSPI-VCS-ElifNoneServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Fetches messages from VCS and forwards to APM	OSSPI-VCS-EngineLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Fetches messages from VCS and forwards to APM	OSSPI-VCS-EngineNotifyLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Engine Shadow Error log file of VCS.	OSSPI-VCS-EngineShadowErrorLog Supported Platform: VCS -HPUX,VCS- SOL	NA

Monitors messages in the Engine Shadow log file of VCS.	OSSPI-VCS-EngineShadowLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the FileNone service resource log file of VCS	OSSPI-VCS-FileNoneServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the FileOnOff service resource log file of VCS.	OSSPI-VCS-FileOnOffServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the FileOnOnly service resource log file of VCS	OSSPI-VCS-FileOnOnlyServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the IPMultiNIC service resource log file of VCS	OSSPI-VCS-IPMultiNICServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the IP service resource log file of VCS.	OSSPI-VCS-IPServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors the Debian Linux syslog logfile.	OSSPI-linux-debian_syslog Supported Platform: Linux Debian	NA
Monitors the definition of messages log file.	OSSPI-linux-suse_messages Supported Platform: Linux SUSE	NA

Monitors messages in the Mount service resource log file of VCS	OSSPI-VCS-MountServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the MultiNICA service resource log file of VCS.	OSSPI-VCS-MultiNICAServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the NFS service resource log file of VCS	OSSPI-VCS-NFSServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the NIC service resource log file of VCS	OSSPI-VCS-NICServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Phantom service resource log file of VCS	OSSPI-VCS-PhantomServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Process service resource log file of VCS	OSSPI-VCS-ProcessServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Proxy service resource log file of VCS.	OSSPI-VCS-ProxyServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the ServiceGroupHB service resource log file of VCS	OSSPI-VCS-ServiceGroupHBServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA

Monitors messages in the Share service resource log file of VCS.	OSSPI-VCS-ShareServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors the operating system messages available in the /var/adm/messages file	OSSPI-Tru64_Messages Supported Platform: Tru64	SI-LinuxSecureLog Supported Platform: Linux
Monitors messages in the VPOOracle service resource log file of VCS.	OSSPI-VCS-VPOOracleServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the VPOServer service resource log file of VCS.	OSSPI-VCS-VPOServerServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the VPOSqlnet service resource log file of VCS.	OSSPI-VCS-VPOSqlnetServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA
Monitors messages in the Volume service resource log file of VCS.	OSSPI-VCS-VolumeServiceLog Supported Platform: VCS -HPUX,VCS- SOL	NA

Monitor Policies

Functionality	Unix OS SPI Policy	InfraSPI Policy
Monitors changes to the alarmdef file	OSSPI-alarmdef_write Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Tracks changes to the system configuration files	OSSPI-AIX-cfgmon OSSPI-HPUX-cfgmon OSSPI-Linux-cfgmon OSSPI-SOL-cfgmon OSSPI-Tru64-cfgmon Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the GlancePlus processes running	OSSPI-chkGlancePid Supported Platform: AIX,HPUX,SOL,Linux	NA
Monitors CPU utilization	OSSPI-cpuutil Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-CPUBottleneckDiagnosis
Monitors disk space utilization on root disk.	OSSPI-diskutil Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-PerDiskUtilization-AT
Monitors DNS availability	OSSPI-dnslookup Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA

Monitors the DNS server process	OSSPI-dnsproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-AIXNamedProcessMonitor SI-HPUXNamedProcessMonitor SI-LinuxNamedProcessMonitor SI-SunSolarisNamedProcessMonitor
Monitors the file system space and availability as well as inode usage	OSSPI-CD_Fileystem OSSPI-GP_Fileystem OSSPI-MWA_Fileystem OSSPI-NP_Fileystem Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-DiskCapacityMonitor – For Disk Space usage
Monitors the VERITAS Cluster Server engine	OSSPI-VCS-had Supported Platform: VCS -HPUX,VCS- SOL	CI-VCSUnixProcessMonitor Supported Platform: VCS-HPUX,VCS-SOL,VCS-Linux
Monitors the VERITAS Cluster Server engine shadow	OSSPI-VCS-Hashadow Supported Platform: VCS -HPUX,VCS- SOL	CI-VCSUnixProcessMonitor Supported Platform: VCS-HPUX,VCS-SOL,VCS-Linux
Monitors the inetd process	OSSPI-inetdproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-AIXInetdProcessMonitor SI-HPUXInetdProcessMonitor SI-LinuxXinetdProcessMonitor SI-SunSolarisInetdProcessMonitor
Monitors the size of the internal log file and trace file	OSSPI-InternalLog Supported Platform:	NA

	AIX,HPUX,SOL,Tru64,Linux	
Monitors the state of the kernel image	OSSPI-kmon Supported Platform: HPUX	NA
Monitors the permissions of the mail files and directories	OSSPI-mailperm Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the sendmail process	OSSPI-mailproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-AIXSendmailProcessMonitor SI-HPUXSendmailProcessMonitor SI-LinuxSendmailProcessMonitor SI-SunSolarisSendmailProcessMonitor
Monitors the length of the mail queue.	OSSPI-mailqueue Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the mounted file systems and access	OSSPI-mount Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the availability of network interfaces	OSSPI-NetInterfaces Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA

Monitors NFS client processes	OSSPI-NFSClientProc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors NFS server processes	OSSPI-NFSserverProc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-AIXNfsServerProcessMonitor SI-HPUXNfsServerProcessMonitor SI-LinuxNfsServerProcessMonitor SI-SunSolarisNfsProcessMonitor
Monitors the ntpd process.	OSSPI-ntpproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the portmap service	OSSPI-portmapproc Supported Platform: AIX	SI-AIXPortmapProcessMonitor
Monitors if printers are enabled.	OSSPI-printenable Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the print file permissions.	OSSPI-printperm Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the print process	OSSPI-printproc	SI-AIXLpdProcessMonitor SI-AIXQdaemonProcessMonitor

	Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-HPUXLpschedProcessMonitor SI-LinuxCupsProcessMonitor SI-SunSolarisLpdProcessMonitor
Monitors the length of the print queue.	OSSPI-printqueue Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors process table utilization.	OSSPI-procutil Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the quota usage.	OSSPI-quotausage Supported Platform: AIX,HPUX,SOL,Tru64,Linux	NA
Monitors the discovered Solstice DiskSuite objects	OSSPI_sdsmon Supported Platform: SOL	NA
Monitors the Service Management Facility (SMF) registered services	OSSPI-SOL-smfmon Supported Platform: SOL	NA
Monitors the SNMP processes.	OSSPI-snmpproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-HPUXSnmpdmProcessMonitor SI-UnixSnmpdProcessMonitor
Monitors the sshd service	OSSPI-sshproc	SI-HPUXSshdProcessMonitor

	Supported Platform: Linux	SI-LinuxSshdProcessMonitor SI-SunSolarisSshdProcessMonitor SI-OpenSshdProcessMonitor
Monitors swap usage	OSSPI-swapmon Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-SwapCapacityMonitor
Monitors the syslog process.	OSSPI-syslogproc Supported Platform: AIX,HPUX,SOL,Tru64,Linux	SI-AIXSyslogProcessMonitor SI-HPUXSyslogProcessMonitor SI-RHELSyslogProcessMonitor SI-SLESSyslogProcessMonitor SI-SunSolarisSyslogProcessMonitor
Monitors VERITAS Volume Manager objects for failures.	OSSPI-veritas Supported Platform: HPUX,SOL	NA
Monitors VERITAS Volume Manager process vxiod and vxconfigd	OSSPI-veritasproc Supported Platform: HPUX,SOL	NA
Monitors all logical volume groups	OSSPI-vg Supported Platform: HPUX,LINUX	NA
Monitors VERITAS Volume Manager Storage Administrator server	OSSPI-vmsa-server Supported Platform: VCS Cluster	NA
Monitors VERITAS Volume Manager	OSSPI-vxconfigd	NA

configuration daemon.	Supported Platform: VCS Cluster	
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Performance Policies

Functionality	Unix OS SPI Policy	InfraSPI Policy
CPU load factors	OSSPI-CD_Cpu_Load OSSPI-GP_Cpu_Load OSSPI-GP_AIX_Cpu_Load OSSPI-GP_SOL_Cpu_Load OSSPI-MWA_Cpu_Load OSSPI-MWA_AIX_Cpu_Load OSSPI-MWA_SOL_Cpu_Load OSSPI-MWA_Tru64_Cpu_Load	SI-CPUBottleneckDiagnosis
Disk I/O on local disks	OSSPI-CD_AIX_Disk OSSPI-CD_HPUX_Disk OSSPI-CD_SOL_Disk OSSPI-GP_Disk OSSPI-GP_AIX_Disk OSSPI-GP_SOL_Disk OSSPI-MWA_Disk OSSPI-MWA_AIX_Disk OSSPI-MWA_SOL_Disk OSSPI-MWA_Tru64_Disk	SI-PerDiskAvgServiceTime-AT
Monitors file locks in use	OSSPI-GP_Flock_Tbl OSSPI-MWA_Flock_Tbl	NA
Monitors open files	OSSPI-CD_Fopen_Tbl OSSPI-GP_Fopen_Tbl OSSPI-MWA_Fopen_Tbl	NA
Monitors disk space	OSSPI-CD_FileSystem OSSPI-GP_FileSystem OSSPI-MWA_FileSystem	SI-DiskCapacityMonitor

	OSSPI-NP_FileSystem	
Monitors network I/O rate	OSSPI-CD_Lan_Coll OSSPI-GP_Lan_Coll OSSPI-MWA_Lan_Coll	SI- NetworkUsageAndPerformance
Monitors the load on memory	OSSPI-CD_Mem_Load OSSPI-GP_Mem_Load OSSPI-GP_AIX_Mem_Load OSSPI-GP_SOL_Mem_Load OSSPI-MWA_Mem_Load OSSPI-MWA_AIX_Mem_Load OSSPI-MWA_SOL_Mem_Load OSSPI-MWA_Tru64_Mem_Load	SI-MemoryBottleneckDiagnosis
Monitors the message table	OSSPI-CD_Msg_Tbl OSSPI-GP_Msg_Tbl OSSPI-MWA_Msg_Tbl	NA
Monitors process table usage	OSSPI-CD_Proc_Tbl OSSPI-GP_Proc_Tbl OSSPI-MWA_Proc_Tbl	NA
Monitors network packet collisions and error rates	OSSPI-CD_NetworkAdapter OSSPI-GP_NetworkAdapter OSSPI-MWA_NetworkAdapter	NA
Monitors bad calls to the NFS client	OSSPI-GP_Nfs_Client_Badcall	NA
Monitors NFS global load	OSSPI-GP_Nfs_Global_Load	NA
Monitors bad calls to the NFS server	OSSPI-GP_Nfs_Server_Badcall	NA
Monitors pseudo terminal driver availability	OSSPI-GP_Pty_Avail	NA

Monitors semaphore usage	OSSPI-CD_Sema_Tbl OSSPI-GP_Sema_Tbl OSSPI-MWA_Sema_Tbl	NA
Monitors shared memory usage	OSSPI-CD_Shmem_Tbl OSSPI-GP_Shmem_Tbl OSSPI-MWA_Shmem_Tbl	NA
Monitors the global swap rate and usage	OSSPI-CD_Swap_Res OSSPI-GP_Swap_Res OSSPI-MWA_Swap_Res	SI-SwapCapacityMonitor