HP OpenView VantagePoint Operations SMART Plug-In for Microsoft Windows OS

Administrator's Reference

Version A.08.00

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Contents

1 Introduction

This chapter provides an overview of the main features and functionality that are provided with the Smart Plug-In for Microsoft Windows Operating System.

Introducing the WinOS SPI

The HP OpenView SMART Plug-In for Microsoft Windows OS is a software product which, by means of a full integration with OVO—formerly VPO/OpC, a market-leading management solution for networks, systems, databases, and applications in heterogeneous IT environments—extends OVO's management scope to include distributed environments of Windows systems. Installed in an environment consisting of one or more OVO servers and one or more OVO managed nodes, the WinOS SPI can be used to monitor and manage the functionality and the availability of hardware and software of Windows XP, 2000 and NT 4.0 operating systems.

NOTE

SMART Plug-In for Microsoft Windows OS is also referred to as WinOS SPI or Windows OS SPI in this document.

Features and Functionality

The WinOS SPI enables you to:

- Deploy preconfigured templates that immediately start to monitor the operation and performance of the Windows nodes in your network.
- Discover system infrastructure and applications that are available on Windows nodes.
- Use applications to view information from remote Windows nodes, and to remotely start commands.

WinOS SPI templates and applications

The WinOS SPI provides preconfigured templates and applications that can manage the operations and performance of your Windows nodes. The templates and applications let you do the following:

- Assign WinOS SPI responsibilities

  With HP OpenView Operations, you can assign operator responsibilities by means of user profiles. The WinOS SPI automatically creates an operator profile, which may be used as a template for creating your own WinOS SPI operators. For details, see “Assigning WinOS SPI Responsibilities” on page 20.

- Assign templates to Windows nodes

  The WinOS SPI provides standard message-source templates for a wide variety of Windows applications. You can customize the preconfigured templates to match the specific requirements of your organization. For details, see “Assigning Templates to Windows Nodes” on page 22.

- Distribute components to Windows nodes

  You can distribute WinOS SPI components to some or all Windows nodes from a central OpenView Operations console. For details, see “Distributing Components to the Windows Nodes” on page 25.

- Deploy WinOS SPI templates

The WinOS SPI enables you to deploy templates manually according to your own requirements. Also, you can create custom templates by modifying the preconfigured templates to address specific needs For more information, refer to “Using Templates” on page 65.

Applications Supported by WinOS SPI

The applications supported by WinOS SPI are:

- McAfee VirusScan
- Norton Anti-Virus
- HP OpenView OmniBack II
- Veritas Backup Exec
- Dell OpenManage
- HP TopTools 4.5
- HP TopTools 5.0
- Insight Manager 7
- MS Certificate Server 1.0
- MS Cluster Server
- MS Index Server 2.0
- MS Message Queue Server 1.0
- MS Proxy Server 2.0
- MS SNA Server 4.0
- MS SQL Server 6.5
- MS SQL Server 7.0
- MS SQL Server 2000
- MS Systems Management Server 2.0
- MS Transaction Server 2.0
- MS Active Directory Services
- MS Terminal Server
- MS IIS 4.0

- MS IIS 5.0
- MS Site Server 3.0

2 Installation and Configuration

This chapter describes how to upgrade, install, configure, and uninstall the WinOS SPI software bundle on the HP OpenView Vantage Point Operations Management Server.

Upgrading the WinOS SPI

In earlier versions, component names had WIN_SPI or win_spi as prefix or did not have any prefix at all.

If you upgraded from a previous installation, all the component names would be now prefixed with one of the following strings:

- WINOSSPI
- WinOSSPI
- winosspi

The templates are also grouped under new template groups. It is recommended that you backup customized Applications, Message Groups, Node Group, User Profile, Template Groups and Templates before upgrading.

Managing Customized Components

To manage your customized components, do as follows:

1. Make a copy with a unique name (for example, add "-" at the end for each name)
2. Uninstall the previous version of the SPI (SPI for Windows +).
3. Install the new version of WinOS SPI.
4. You can repeat the customizations on the new components installed with the new version of the SPI.

Backup the components by copying and downloading the configuration. Refer to the VP Operations Administrator's Reference Volume I for more information on copying and downloading configuration . Once you install the new version of the SPI, you can upload the downloaded data (with changed names) and reference them to customize the new templates.

Installing the WinOS SPI

This section explains how to install the WinOS SPI software bundle from the installation compact disk (CD) to the HP OpenView VantagePoint Operations Management Server.

Required Patches

Before you start the installation, make sure the following VPO patches (for VPO 6.0 only) are installed:

- VPO A.06.01 Consolidated Server Patch (or higher)
- VPO A.06.03 NT Agent Patch (or higher)

Read the Release Notes for specific patch installation information for your management server platform.

NOTE HP OpenView Vantage Operations (VPO) was formerly known as HP OpenView IT/Operations (ITO). The required patches for VPO may therefore be listed under “ITO” rather than “VPO.”

To Install the Software

1. Log on to the OVO management server as root user.
2. Mount the HP OpenView Smart Plug-in CD-ROM. Use the CD that contains the management server installation packages (HP OpenView Smart Plug-ins for OVO/UNIX). Refer to the HP OpenView Smart Plug-ins for OVO/UNIX Release Notes for more information.
3. Use `swinstall` to install the WinOS SPI filesets. Refer to the HP OpenViewSmart Plug-ins for OVO/UNIX Release Notes for more information about product locations and valid platform names.

HP-UX

On an HP-UX system, use the `swinstall` graphical user interface:

1. Type the following: `/usr/sbin/swinstall -s /<mount_point>/OV_DEPOT/<platform>.sdtape`

   The `SD Install - Software Selection` window appears.
2. Highlight `SPI-WIN-OVO`.
3. Select `Actions: Mark For Install` from the menu bar.
4. Select `Actions: Install` from the menu bar.
5. Verify that the analysis phase of the installation completes without errors by clicking on **Logfile**. This displays the `/var/adm/sw/swagent.log` log file. Correct any errors that appear.
6. Click `OK` to continue with the installation.
7. Exit `swinstall` after the installation completes.

Or on an HP-UX system, use the command line:

1. Type the following: `/usr/sbin/swinstall -s\ /<mount_point>/OV_DEPOT/<platform>.sdtape SPI-WIN-OVO`
2. Check the `/var/adm/sw/swagent.log` log file and correct any errors that appear.

Solaris

On a Solaris system, use the command line:

1. Type the following: `/usr/sbin/swinstall -s\ /<mount_point>/OV_DEPOT/SOLARIS.sdtape SPI-WIN-OVO`
2. The `swinstall` application is installed with OVO (`swinstall` is also referred to as SD or Software Distributor).
3. Check the `/var/adm/sw/swagent.log` log file and correct any errors that appear

The SPI-WIN-OVO product contains the file sets described in Table 1.

Table 1 File Sets and Descriptions

File Set	Description
SPI-WIN-OVO.WINOSSPI-CONF	Configuration files
SPI-WIN-OVO.WINOSSPI-DOC	Documentation and release notes
SPI-WIN-OVO.WINOSSPI-WIN	Package for Windows managed nodes
SPI-WIN-OVO.WINOSSPI-SRV	Package for OVO Unix Management Server

Configuring the WinOS SPI

This section explains how to use the HP OpenView Vantage Point Operations administrator graphical user interface (GUI) to integrate the WinOS SPI with OpenView Vantage Point Operations and bring all Windows application servers under OpenView Vantage Point Operations management.

You need to:

- Assign WinOS SPI responsibilities
- Assign templates to Windows nodes
- Distribute components to the Windows nodes

Assigning WinOS SPI Responsibilities

With HP OpenView VantagePoint Operations, operator responsibilities can be assigned by means of user profiles. The WinOS SPI automatically creates an operator profile that can be used as a template for creating your own WinOS SPI operators. The WinOS SPI specific user profile, WinOSSPI Operator, appears in the User Profile Bank window.

To work with the WinOS SPI, you must either create a new user, or assign the WinOSSPI Operator profile to an existing user. This profile enables the user to see WinOS SPI messages and to execute WinOS SPI applications.

TIP

The easiest way to add a new OpenView user is to copy an existing user, change the new user's name, and modify the responsibilities of the new user appropriately.

To Add a New OpenView VantagePoint User

1. In the `User Bank` window, select and right-click an existing user (for example, `opc_op`), then select the `Copy`... Menu item.

   The `Copy User` window appears.

2. Change both the `Name` field and the `Label` field to the following:

   `WIN_op`

3. Assign default responsibilities to the new user by clicking [`Responsibilities...`].

   The `Responsibilities` window opens.

4. From the message groups provided with WinOS SPI, select the message groups in which you are interested, and then select `Close`.

   For a complete list of message groups delivered with Windows OS SPI, see "Message Group Bank Window" on page 39.

5. Assign default applications to the new user by clicking [`Applications...`].

   The `Applications` window opens.

6. Open the `Application Bank` window and drag the Windows OS SPI application group to the Applications of <*UserName*> window.

7. Close both windows.

8. Return to the `Copy User` window and click [`OK`].

   The user `WIN_op` appears in the `User Bank` window with the combined (default) responsibilities of the WinOSSPI Operator user profile and the `opc_op` operator you used as a template.

NOTE

The responsibilities assigned in a user profile are global and, therefore, not immediately visible in the responsibilities matrix of the individual user you create. Similarly, the responsibilities of the user you create are local and only visible in the user's own responsibilities matrix. However, if you assign the WinOSSPI Operator user profile to the `WIN_op` user, all the message and node groups assigned to the WinOSSPI Operator user profile are assigned to the `WIN_op` user, even if it does not initially appear so.

To Change an Operator's Profile

1. In the `VPO User Bank` window, select and right-click an existing user (for example, `WIN-op`), and then select the `Modify...` Menu item.

The `Modify User` window appears.

2. Click the `Profiles` button and drag the profile WinOSSPI Operator from the `VPO User Profile Bank to the Profiles` window of the user to be modified.
3. Modify the template as needed.
4. Save the changes by returning to the `Modify User` window and clicking `OK`.

To Assign Nodes to the Node Group WinOSSPI

1. Open the `VPO Node Group` window and double-click the node group WinOSSPI.
2. Open the `VPO Node Bank` window.
3. Drag the Windows nodes from the `VPO Node Bank` window to the node group WinOSSPI.

Assigning Templates to Windows Nodes

Message-source templates for the WinOS SPI are organized into the following default groups:

- Anti-Virus Applications
- Backup & Storage Applications
- Dell OpenManage
- Discovery
- HP TopTools
- Insight Manager
- MS BackOffice Applications
- Microsoft Windows Core
- Web Servers

Each group is part of the template group SPI for Microsoft Windows.

Most of the WinOS SPI default template groups contain two subgroups:

- Diagnostic – Forwards all Windows event log errors and warnings
- Additional – Forwards all Windows event log information entries

NOTE

In most cases, only the diagnostic group should be assigned. Assign the additional group only if you want to receive all informational messages written to the Windows event logs.

To Create your Own Template Group

When creating your own template group, copy the existing template group, then modify the contents of the new group.

1. Make your own template group.

   Use the `Message Source Templates` window (see Figure 1) to make your own template group:

   a. Open the `Message Source Templates` window, select the template group you want to copy and click the [`Copy...`] button.

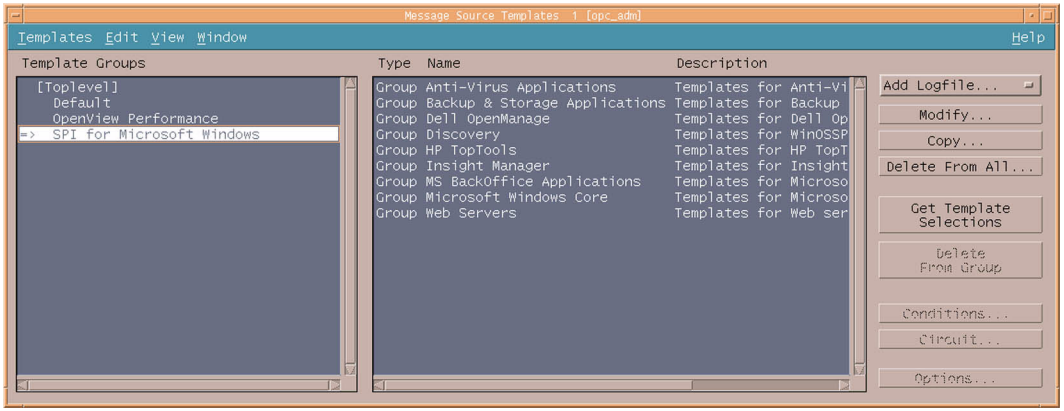
   b. Enter a name and description for the new template group in the fields provided and click [`OK`].

   c. In the left pane, select the new template group.

   d. In the right pane, select the templates and monitors you do not need and remove them using the `Delete From Group` button.

   e. Configure the monitors and templates you need.

Figure 1 Message Source Template Window



2. In the `Node Bank` window, select the Windows nodes to which you want to assign templates.

   Nodes selected together require the same templates (they must all have the same BackOffice applications running).

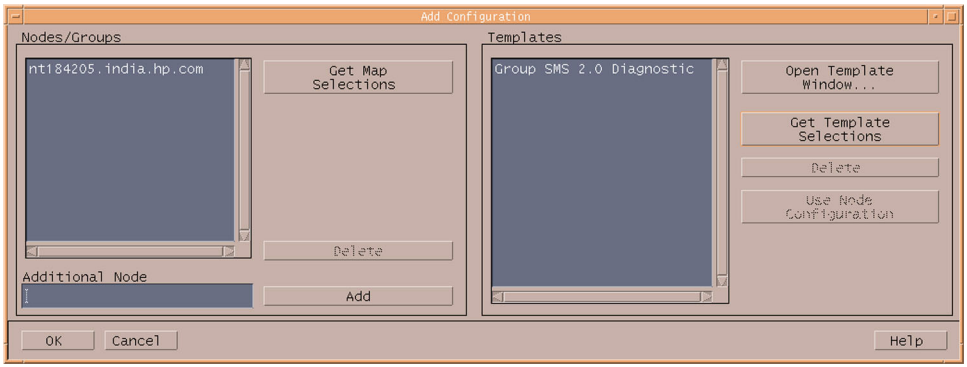
3. From the menu bar, select the `Actions -> Agents -> Assign Templates...` menu option.

   The `Define Configuration` window opens.

4. Click [`Add...`].

   The `Add Configuration` window opens (see Figure 2).

Figure 2 Add Configuration Window



5. Click `[Open Template window...]`.

   The `Message Source Templates` window appears.

6. In the left pane, expand the SPI for Microsoft Windows template group and select the template group or groups you created (for example, SMS 2.0 Diagnostic).

   The template group or groups you created contain the templates you need.

7. Return to the `Add Configuration` window.

8. Click [`Get Template Selections`].

   The newly assigned template is displayed in the Templates list.

9. Click [`OK`] to finish assigning templates.

Distributing Components to the Windows Nodes

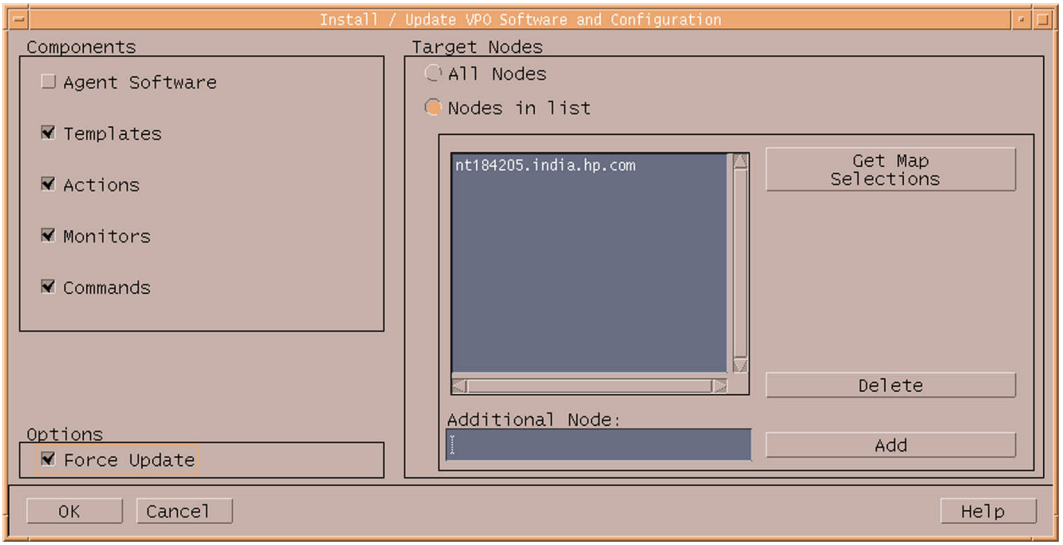
You can distribute SMART-Plug-In components to some or all Windows nodes from a central console.

1. Select the Windows nodes to which you wish to distribute SMART Plug-In components.

2. From the menu bar of the Node Group window, select the `Actions -> Agents -> Install / Update SW & Config...` menu option.

The `Install / Update VPO Software and Configuration` window appears (see Figure 3).

Figure 3 **Install / Update VPO Software and Configuration**



3. Select `Force Update`.
4. Click [`OK`] to finish the distribution.

TIP

HP OpenView VantagePoint Operations administrators online help explains in detail about the options for installing and updating software.

Viewing License Reports

A license is required for every Windows system (managed node) you are monitoring. You can produce a license report that lists all the nodes where the WinOS SPI is installed.

To View WinOSSPI License Report

1. From the menu bar in the `VPO Application Bank` window, select:

   `Actions -> Utilities -> Reports...`

   The `VPO Reports` window, which lists all available reports, appears.

2. In the list of reports, select `WinOSSPI License Check`.

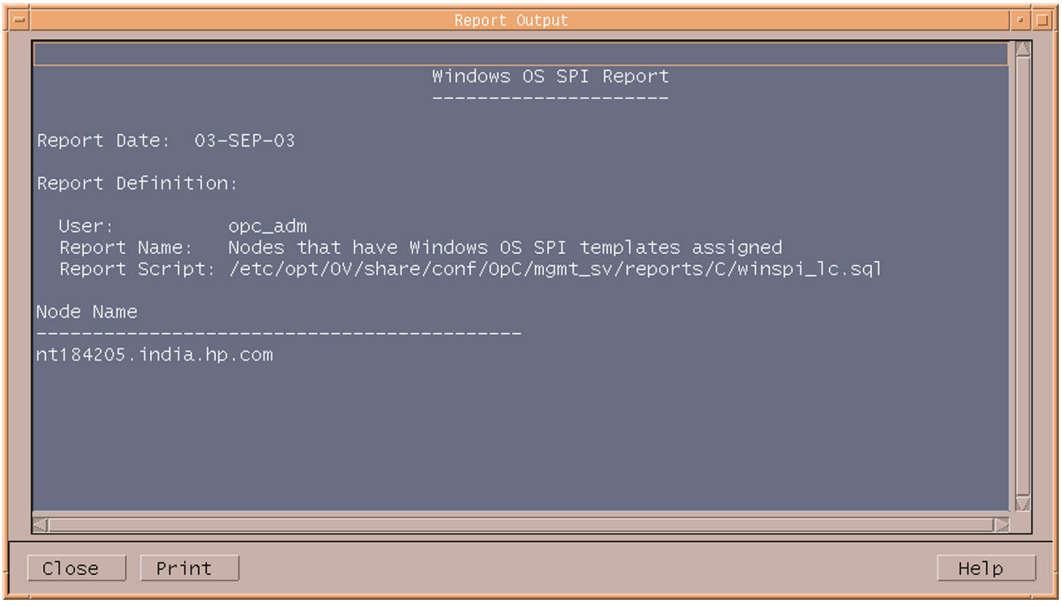
3. Select the output you require:

   - `Display on Screen`
   - `To Printer`
   - `To File`

4. Click [`OK`].

Figure 4 displays a sample WinOSSPI License Report.

Figure 4 WinOSSPI License Report



Uninstalling the WinOS SPI

To uninstall the WinOS SPI software, you need to:

- Remove WinOS SPI components from the managed nodes.
- Remove WinOS SPI components from the management server.

  WinOS SPI components include the following:

  – Applications

  – Directory structure

  – File sets

  – Message groups

  – Message source templates

  – Node group

  – Operator profile

  – Software and documentation packages

  Instructions are in “To Remove WinOS SPI Components from the Management Server” on page 30.

NOTE To uninstall the software from managed nodes or from the VPO server, you must be logged on as the VPO administrator (user name opc_adm).

To Remove WinOS SPI Components from the Managed Nodes

1. From `VPO Node Bank` window menu bar, select:

   `Actions -> Agents -> Assign Templates...`

   The `Define Configuration` window, which shows a list of every combination of managed node and assigned template, appears.

2. From the list, select entries where the template is a WinOS SPI template and the managed node is one from which you want to uninstall the WinOS SPI.
3. Click [`Remove Selected`], and then click [`OK`].

   The template configurations for the managed nodes are changed. You must now distribute the changed templates to the managed nodes.
4. In the `VPO Node Bank` window, select the managed nodes for which you changed the template configurations.
5. From the menu bar, select:

   `Actions -> Agents -> Install / Update SW & Config ...`

   The `Install / Update VPO Software Configuration` window appears.
6. Check all listed items except Agent Software, and then click [`OK`].
7. Run the WinOS SPI Clean Node application to remove any WinOS SPI configuration data and instrumentation from the managed nodes.

NOTE By default, the `Additional Parameter` is set to **No**. Ensure that you have set the `Additional Parameter` to **`Yes,`** before you use the WinOS SPI Clean Node application.

To Remove WinOS SPI Components from the Management Server

Before uninstalling the WinOS SPI software from the management server, make sure you have uninstalled the WinOS SPI components from all the managed nodes you were monitoring. Instructions are in “To Remove WinOS SPI Components from the Managed Nodes” on page 29.

1. Run the WinOS SPI Clean Server application to remove any WinOS SPI configuration data and instrumentation from the management server.

NOTE By default, the `Additional Parameter` is set to **No**. Ensure that you have set the `Additional Parameter` to **`Yes,`** before you use the WinOS SPI Clean Server application.

2. Remove all message groups installed with the WinOS SPI:
   a. From the menu bar, select `Window -> Message Group Bank` to go to the Message Group Bank window.
   b. For each message group listed in Table 3 on page 41, select it, right-click the mouse, and select Delete from the pop-up menu that appears.

WARNING **Do not delete message group other than the message groups listed in Table 3 on page 41.**

3. Remove the Windows OS SPI application group:
   a. From the menu bar, select `Window -> Application Bank` to go to the `Application Bank` window.
   b. Select the Windows OS SPI application group, right-click the mouse, and select `Delete` from the pop-up menu that appears.
4. Remove the WinOSSPI node group:
   a. From the menu bar, select `Window -> Node Group Bank` to go to the `Node Group Bank` window.
   b. Select the WinOSSPI node group, right-click the mouse, and select `Delete` from the pop-up menu that appears.
5. Remove the WinOSSPI Operator user profile:
   a. From the menu bar, select `Window -> User Profile Bank` to go to the `User Profile Bank` window.
   b. Select the WinOSSPI Operator user profile, right-click the mouse, and select `Delete` from the pop-up menu that appears.
6. Delete all the groups, subgroups, and templates delivered with the WinOS SPI:
   a. From the menu bar, select `Window -> Message Source Templates` to go to the `Message Source Templates` window.
   b. In the left pane of the bi-pane window, select SPI for Microsoft Windows.

The components of the SPI for Microsoft Windows group appear in the right pane.

c. Delete the SPI for Microsoft Windows group.

   The highest-level subgroup appears in the Message Source Templates window.

d. Select and delete all subgroups of the SPI for Microsoft Windows group.

   The next highest-level subgroup appears in the Message Source Templates window

IMPORTANT

Repeat this step recursively until all SPI for Microsoft Windows subgroups have been deleted and the SPI for Microsoft Windows templates appear in the Message Source Templates window.

SPI for Microsoft Windows templates have the following syntax:

```
WINOSSPI-<TemplateName>
```

e. Select and delete all WinOS SPI templates.

7. Remove all software packages that relate to the WinOS SPI by entering the following:

   /usr/sbin/swremove

   Select and remove any of the following packages that are on your system:

   – SPI-WIN-OVO.WINOSSPI-CONF

     Configuration files

   – SPI-WIN-OVO.WINOSSPI-DOC

     Documentation and release notes

   – SPI-WIN-OVO.WINOSSPI-WIN

     Package for Windows managed nodes

   – SPI-WIN-OVO.WINOSSPI-SRV

Package for OVO Unix Management Server

The `swremove` command also removes the WinOSSPI License Report (described in "Viewing License Reports" on page 27).

If problems occur during uninstallation, check the following log files:

- `/var/admin/sw/swremove.log`
- `/var/admin/sw/swagent.log`

Installed File Locations

Table 2 **WinOS SPI File Locations on the OVO Management Server**

File Type	Directory Location
Binaries	`/opt/OV/winosspi/bin`
Documentation	`/opt/OV/winosspi/doc`
Logfiles	`/opt/OV/winosspi/log`
Service Configuration files	`/opt/OV/winosspi/conf`
Service Discovery Images	`/opt/OV/www/htdocs/ito_op/images`
Temporary and Runtime	`/opt/OV/winosspi/tmp`
OVO Integration	`/var/opt/OV/share/tmp/OpC_appl/winosspi`
Application Group Bitmaps	`/etc/opt/OV/share/bitmaps/C/sw_utils` `/opt/OV/www/htdocs/bitmaps/C/sw_utils`
Message Group Bitmaps	`/etc/opt/OV/share/bitmaps/C/software` `/opt/OV/www/htdocs/bitmaps/C/software`
Symbols	`/etc/opt/OV/share/symbols/C/WinOSSPI/appgroups` `/etc/opt/OV/share/symbols/C/WinOSSPI/msggroups`

Table 3 **WinOS SPI File Locations for the OVO Managed Node**

File Type	Directory Location

Binaries	`<%OvAgentDir%>\bin\OpC\actions`
	`<%OvAgentDir%>\bin\OpC\cmds`
	`<%OvAgentDir%>\bin\OpC\monitor`

Discovery Logfile	`<%OvAgentDir%>\log\winosspi_discovery.log`
Log and Trace files	`<%OvAgentDir%>\log\winosspi`
Registry Key	`HKLM\SOFTWARE\Hewlett-Packard\OpenView\winosspi`

`OvAgentDir` is the environment variable pointing to the directory where the OpenView VantagePoint operations agent software is installed.

3 Using the WinOS SPI

This chapter describes the components that are added to OVO during installation of the WinOS SPI software and how to use them.

The WinOS SPI comprises the following components on the OVO management server.

- Message Groups
- Applications and Application Groups
- Templates and Templates Groups
- Executables

Message Groups

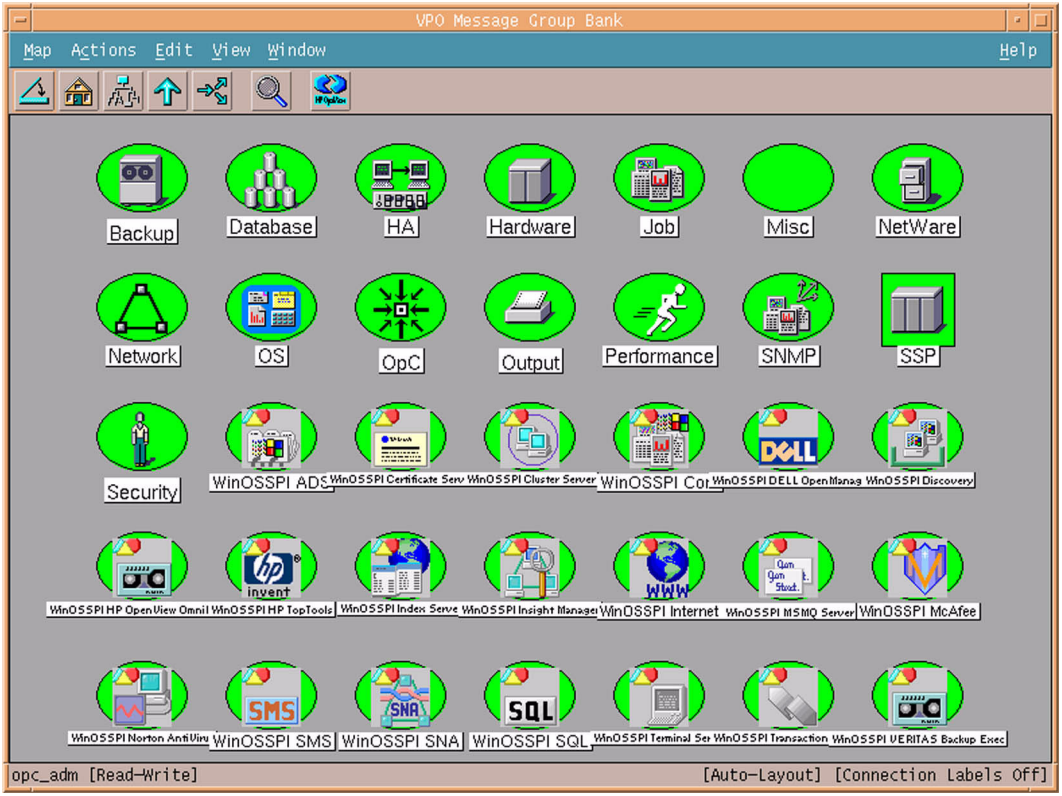
OVO uses message groups to combine management information about similar or related managed objects under a chosen name, and provide status information on a group level.

Messages are organized into groups to simplify message management, and to let you do your work in a task-oriented way. For example, one operator can be responsible for backups and output, and another operator can be responsible for network, operating system, and security aspects of message management.

Message Group Bank Window

The `Message Group Bank` window contains symbols for the message groups for which a particular operator is responsible. In this window, you can review the status of each group, and select specific groups for message review, as shown in Figure 5 on page 40.

Figure 5 **VPO Message Group Bank Window**



Message Group Colors

In the `Message Group Bank` window, the color of a particular symbol represents the current status. A change in the color of a symbol in the `Message Group Bank` window indicates a change in status of a managed node within an operator's environment. If a message with the severity level Critical arrives in your browser, the `Message Group Bank` window automatically opens and moves to the front of your display to notify you of the event. You can, however, configure OVO so that this window remains in its original position when a critical message arrives.

When you are logged on as an operator with WinOS SPI responsibilities, your Message Group Bank window contains some or all of the message

groups listed in Table 3, depending on the responsibilities assigned to you by the OVO administrator.

Table 3 Message Groups and Labels

Label	Message Group	Description
WinOSSPI ADS	WINOSSPI-ACTIVEDIRECTORY_SERVICE	Messages for Active Directory Services
WinOSSPI Certificate Server	WINOSSPI-MS_CERTIFICATE_SERVER	Messages for Microsoft Certificate Server
WinOSSPI Cluster Server	WINOSSPI-MS_CLUSTER_SERVER	Messages for Microsoft Cluster Server
WinOSSPI Core	WINOSSPI-CORE	Messages for Core Services
WinOSSPI DELL OpenManage	WINOSSPI-DELL_OPEN_MANAGE	Messages for DELL OpenManage
WinOSSPI Discovery	WINOSSPI-DISCOVERY	Messages for Service Discovery
WinOSSPI HP TopTools	WINOSSPI-HP_TOP_TOOLS	Messages for HP Top Tools
WinOSSPI HP OpenView OmniBack II	WINOSSPI-HP_OPENVIEW_OMNIBACKII	Messages for HP OpenView OmniBack II
WinOSSPI Index Server	WINOSSPI-MS_INDEX_SERVER	Messages for Microsoft Index Server
WinOSSPI Insight Manager	WINOSSPI-INSIGHT_MANAGER	Messages for Insight Manager
WinOSSPI Internet	WINOSSPI-INTERNET_SERVICE	Messages for Internet Services
WinOSSPI McAfee	WINOSSPI-MCAFEE	Messages for McAfee Virus Scan
WinOSSPI Norton AntiVirus	WINOSSPI-NORTON_ANTI_VIRUS	Messages for Norton AntiVirus
WinOSSPI Terminal Server	WINOSSPI-MS_TERMINAL_SERVER	Messages for Microsoft Terminal Server
WinOSSPI Transaction Server	WINOSSPI-MS_TRANSACTION_SERVER	Messages for Microsoft Transaction Server
WinOSSPI SMS	WINOSSPI-MS_SYSTEMS_MGMT_SERVER	Messages for Microsoft Systems Management Server

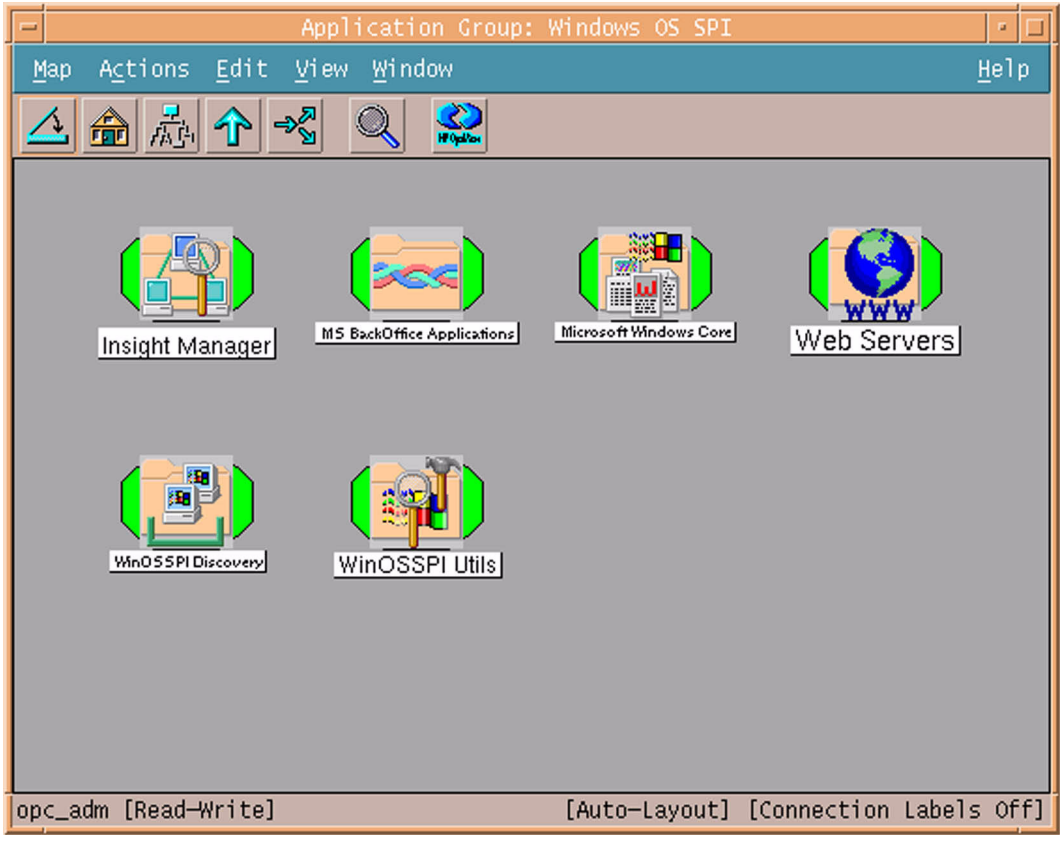
Table 3 Message Groups and Labels

Label	Message Group	Description
WinOSSPI SNA	WINOSSPI-MS_SNA	Messages for MS SNA
WinOSSPI SQL	WINOSSPI-MS_SQL	Messages for MS SQL Server
WinOSSPI MSMQ Server	WINOSSPI-MS_MESSAGE_QUEUE_SERVER	Messages for Microsoft Message Queue Server
WinOSSPI VERITAS Backup Exec	WINOSSPI-VERITAS_BACKUP_EXEC	Messages for VERITAS Backup Exec

Application Groups

The installation of the WinOS SPI adds a new application group to the VPO Application Bank window. The new application group is called Windows OS SPI and contains six WinOS SPI specific application groups as shown in Figure 6.

Figure 6 **Windows OS SPI Application Groups**



WinOS SPI applications enable you to do the following:

- Start Windows services and processes.

- Stop Windows services and processes.
- Check the status of Windows services and processes.
- Display information about a web server
- Configure trap destinations
- Provides core information about the operating system and networking

The WinOS SPI application groups, explained in greater detail in the section that follow, are:

`Insight Manager`	This group contains applications for configuring hardware trap destinations on Insight Manager managed nodes, launching the Insight Manager agent web interface, and starting or stopping applications that provide service status information.
`Microsoft Windows Core`	This group contains applications that help manage MS Terminal, Active Directory, and networking services. They also offer in-depth coverage of the Windows NT4, 2000, and XP operating systems.
`MS BackOffice Application`	This group contains applications for starting, stopping and querying the status of the services associated with key Microsoft BackOffice application servers.
`Web Servers`	This group contains applications that can be used to monitor and view information about web servers.
`WinOSSPI Discovery`	This group contains an application that launches Service Discovery on node(s) or node groups. The Discovery application, installed by the WinOS SPI, is used to discover the services that you want to monitor on the managed nodes.
`WinOSSPI Utils`	This group contains applications which are intended to be used by the OVO administrator who is responsible for the administration of the , WinOS SPI namely; uninstallation and tracing.

Application Group: Insight Manager

This group contains applications for configuring hardware trap destinations on Insight Manager managed nodes, launching the Insight Manager agent web interface, and starting or stopping applications that provide service status information.

Table 4 lists the applications present in the Insight Manager application group and provides a brief description.

Table 4 Insight Manager Applications

Application Name	Description
Configure SNMP Trap Destination	Configures SNMP trap destination on the Insight Manager nodes.
IM Agent Web Interface	Starts the Insight Manager Agent web interface.
Start Foundation Agents	Starts Insight Manager's Foundation Agents service.
Start NIC Agents	Starts Insight Manager's NIC Agents service.
Start Server Agents	Starts Insight Manager's Server Agents service.
Start Storage Agents	Starts Insight Manager's Storage Agents service.
Start Version Control Agent	Starts Insight Manager's Version Control Agent service.
Start Web Agent	Starts Insight Manager's Web Agent service.
Status Foundation Agents	Reports status of Insight Manager's Foundation Agents service and process.
Status NIC Agents	Reports status of Insight Manager's NIC Agents service and process.
Status Server Agents	Reports status of Insight Manager's Server Agents service and process.
Status Storage Agents	Reports status of Insight Manager's Storage Agents service and process.
Status Version Control Agent	Reports status of Insight Manager's Version Control Agent service and process.
Status Web Agent	Reports status of Insight Manager's Web Agent service and process.

Table 4 **Insight Manager Applications**

Application Name	Description
`Stop Foundation Agents`	Stops Insight Manager's Foundation Agents service.
`Stop NIC Agents`	Stops Insight Manager's NIC Agents service.
`Stop Server Agents`	Stops Insight Manager's Server Agents service.
`Stop Storage Agents`	Stops Insight Manager's Storage Agents service.
`Stop Version Control Agent`	Stops Insight Manager's Version Control Agent service.
`Stop Web Agent`	Stops Insight Manager's Web Agent service.

Application Group: Microsoft Windows Core

This group contains applications that help manage MS Terminal, Active Directory, and networking services. They also offer in-depth coverage of the Windows NT4, 2000, and XP operating systems.

Figure 7 **Microsoft Windows Core Application Group**

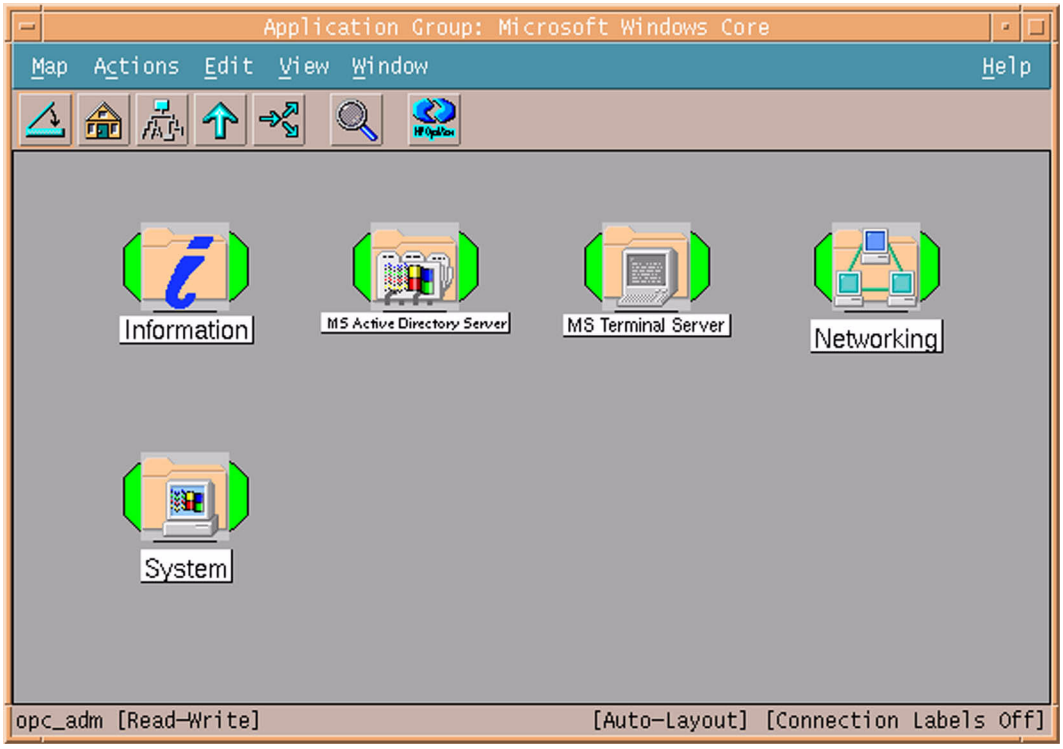


Table 5 lists the application sub groups and applications present in the Microsoft Windows Core and provides a brief description.

Table 5 **Microsoft Windows Core Application Group and Applications**

Application Group	Application	Description
Information	`Drive Information`	Displays all drives that are available on the node.
	`Get System Overview`	Displays information about operating system version, hardware, memory, network, drives, processes, CPU load, and IP configuration of the selected node.
	`Hardware Information`	Displays hardware information.
	`Memory Information`	Displays memory information.
	`OS Version`	Displays information about the installed operating system.
	`PerfMon Objects`	Lists all available Performance Monitor Objects and Counters
	`Session List`	Lists all sessions on the node.
	`User List`	Lists all node users.
MS Active Directory Server	`ADS Printer Information`	Lists all printers known in the Active Directory. It is possible to restrict the output on specific Organizational Units (OU) by using the parameters "-ou <name of OU>" instead of "-all".
	`Check ADS Service`	Connects to the ADS service of the specific node using ADSI.

Table 5 Microsoft Windows Core Application Group and Applications

Application Group	Application	Description
MS Terminal Server	`Start Term Server Licensing`	Starts TermServLicensing service.
	`Start TermService`	Starts TermService service
	`Status`	Reports status of Windows Terminal Server services and processes
	`Stop Term Server Licensing`	Stops TermServLicensing service.
	`Stop TermService`	Stops TermService service.
Networking	`IPX Information`	Displays information on all the bindings that IPX is configured for.
	`Name Server Lookup`	Displays the fully qualified DNS name and IP address of the node specified in the parameter field (by default you start the command on the chosen nodes and get information about them) and its DNS server.
	`Network Information`	Displays network information of the node and its server.
	`Show Hostname`	Displays hostname of the selected node.
	`Show IP Configuration`	Displays IP configuration of the node.
	`Show TCP/IP Connections`	Displays current TCP/IP network connections.
	`TCP/IP Statistics`	Displays statistics for the TCP, IP, and UDP protocols.

Table 5 **Microsoft Windows Core Application Group and Applications**

Application Group	Application	Description
System	Cancel Shutdown	Cancels shutdown of the node.
	Enable Disk Performance Counters	Enables the disk performance counters for logical drives on a Windows 2000 system. The counters will NOT be enabled before the system is restarted.
	Kill Process	Kills a process specified with the "/name" or "/pid" parameters.
	List Processes	Lists all running processes and includes some detailed information about them.
	List Service	Lists all services with start mode and actual state.
	Scan Registry	Scans the registry of a node for a specified pattern. Usage: /scan <pattern> /initkey lm|cu|cr|us|cc /key <path> [/view]
	Send Message	Sends a message to the selected node(s).
	Show Directory	Returns the contents of the directory that is given as the parameter.
	Show Registry Key	Displays a specified registry key. Usage: /view /initkey lm|cu|cr|us|cc /key <path> [/valuename <name>] Abbreviations: lm - KEY_LOCAL_MACHINE cu - KEY_CURRENT_USER cr - KEY_CLASSES_ROOT us - KEY_CLASSES_ROOT cc - KEY_CURRENT_CONFIG

Table 5 **Microsoft Windows Core Application Group and Applications**

Application Group	Application	Description
System	`Shutdown`	Shuts down node. Parameters: /m <shutdown message> /t <timeout in sec> /a abort shut-down /r reboot after shutdown / f force shutdown /w popup win-dow notification

Application Group: MS BackOffice Application

This group contains applications for starting, stopping and querying the status of the services associated with key Microsoft BackOffice application servers.

Figure 8 **MS BackOffice Application Group**

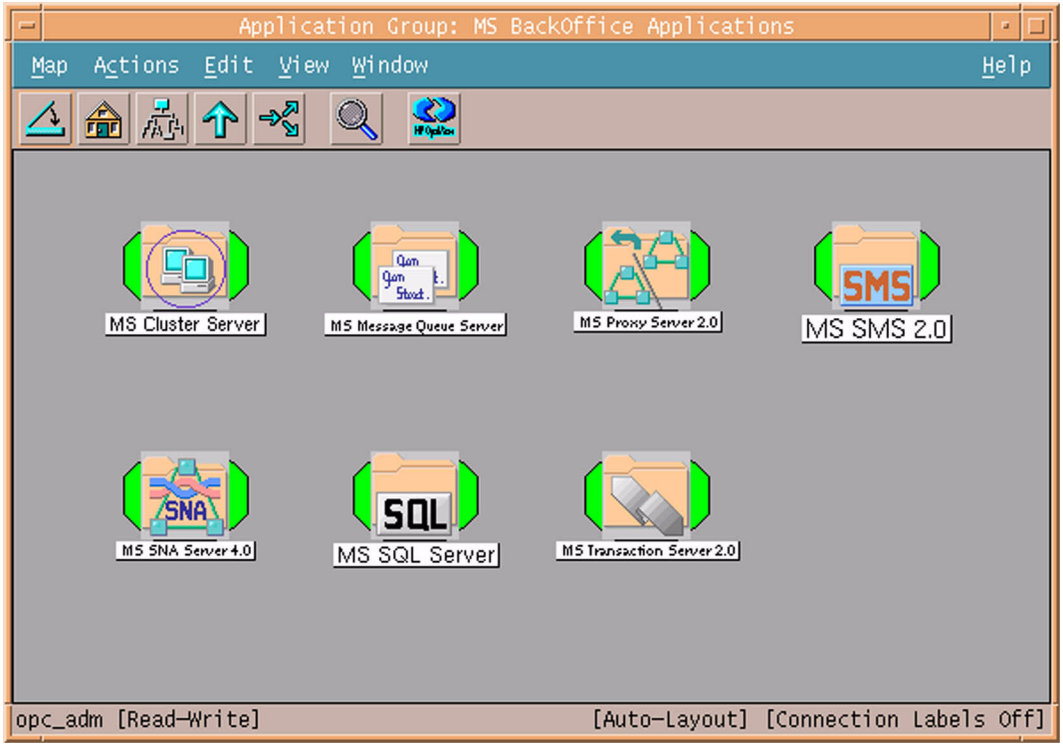


Table 6 lists the applications sub groups present in the MS BackOffice application group and provides a brief description.

Table 6 **MS Back Office Application Group and Applications**

Application Group	Application Name	Description
MS Cluster Server	`Start clussvc`	Starts clussvc service.
	`Status`	Reports status of clussvc services and processes
	`Stop clussvc`	Stops clussvc service.
MS Message Queue Server	`Start MSMQ`	Starts MSMQ service.
	`Status`	Reports status of MSMQ 1.0 services and processes.
	`Stop MSMQ`	Stops MSMQ service.
MS Proxy Server 2.0	`Start MS PAN 2.0`	Starts Microsoft Proxy Alert Notification service.
	`Start MS PSA 2.0`	Starts Microsoft Proxy Server Administration service.
	`Start MS WPS 2.0`	Starts Microsoft WinSock Proxy service.
	`Status MS PAN 2.0`	Reports status of Microsoft Proxy Alert Notification service.
	`Status MS PSA 2.0`	Reports status of Microsoft Proxy Server Administration service.
	`Status MS WPS 2.0`	Reports status of Microsoft WinSock Proxy service.
	`Stop MS PAN 2.0`	Stops Microsoft Proxy Alert Notification service.
	`Stop MS PSA 2.0`	Stops Microsoft Proxy Server Administration service.
	`Stop MS WPS 2.0`	Stops Microsoft WinSock Proxy service.

Table 6 **MS Back Office Application Group and Applications**

Application Group	Application Name	Description
MS SMS 2.0	`Start SMS_CLIENT_SERVICE`	Starts SMS_CLIENT_SERVICE service.
	`Start SMS_EXECUTIVE`	Starts SMS_EXECUTIVE service.
	`Start SMS_SITE_COMPONENT_MANAGER`	Starts SMS_SITE_COMPONENT_MANAGER service.
	`Start SMS_SQL_MONITOR`	Starts SMS_SQL_MONITOR service.
	`Status`	Reports status of SMS 2.0 services and processes.
	`Stop SMS_CLIENT_SERVICE`	Stops SMS_CLIENT_SERVICE service.
	`Stop SMS_EXECUTIVE`	Stops SMS_EXECUTIVE service.
	`Stop SMS_SITE_COMPONENT_MANAGER`	Stops SMS_SITE_COMPONENT_MANAGER service.
	`Stop SMS_SQL_MONITOR`	Stops SMS_SQL_MONITOR service.
MS SNA Server 4.0	`Start SnaBase`	Starts SnaBase service.
	`Start SnaServr`	Starts SnaServr service.
	`Status`	Reports status of SNA 4.0 services and processes.
	`Stop SnaBase`	Stops SnaBase service.
	`Stop SnaServr`	Stops SnaServr service.

Table 6 **MS Back Office Application Group and Applications**

Application Group	Application Name	Description
MS SQL Server	`Start MS SQL Server`	Starts MS SQL Server
	`Status`	Reports status of the MS SQL services and processes.
	`Stop MS SQL Server`	Stop MS SQL Server
MS Transaction Server 2.0	`Start MSDTC`	Starts MSDTC services.
	`Status`	Reports status of Trans Svr 2.0 services and processes.
	`Stop MSDTC`	Stops MSDTC service.

Application Group:Web Servers

The WinOS SPI provides a number of preconfigured applications for monitoring the most popular Microsoft web server applications:

- Microsoft Internet Information Server 4.0
- Microsoft Internet Information Server 5.0
- Microsoft Site Server 3.0, Commerce Edition

Figure 9 **Web Server Application Group**

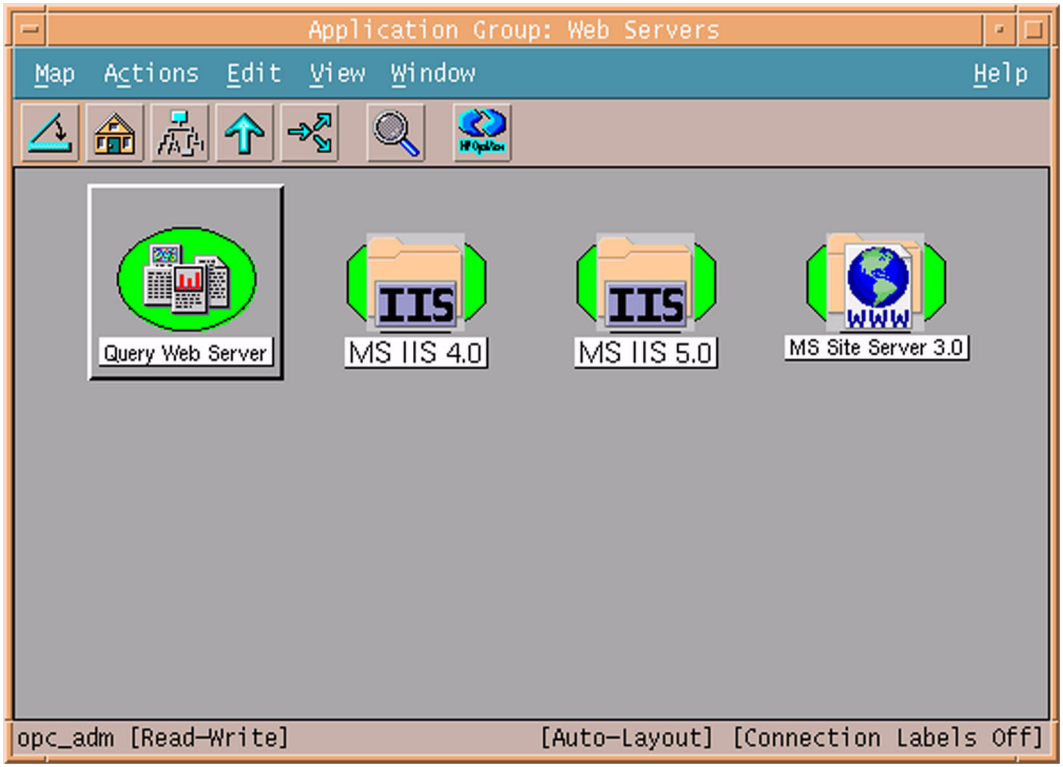


Table 7 lists the application sub groups and applications present in the Web Server and provides a brief description

Table 7 **Web Server Application Group and Applications**

Application Group	Application Name	Description
	`Query Web Server`	Displays information about a web server. The web server can be any server. Uses the proxy settings of Microsoft Internet Explorer.
MS IIS 4.0	`Start FTP 4.0`	Starts FTP publishing service.
	`Start IISADMIN 4.0`	Starts IISADMIN 4.0 service.
	`Start Index 4.0`	Starts Index 4.0 service.

Table 7 **Web Server Application Group and Applications**

Application Group	Application Name	Description
MS IIS 4.0	`Start NNTP 4.0`	Starts Network News Transfer Protocol 4.0 service.
	`Start SMTP 4.0`	Starts Simple Mail Transfer Protocol service.
	`Start WWW 4.0`	Starts World Wide Web publishing service.
	`Status FTP 4.0 Service`	Status FTP 4.0 Service
	`Status FTP 4.0 Site(s)`	Reports status of IIS 4.0 FTP publishing server site(s).
	`Status IIS 4.0`	Reports status of IIS 4.0 services and processes.
	`Status Index 4.0`	Reports status of Index 4.0 service.
	`Status NNTP 4.0`	Reports status of Network News Transfer Protocol 4.0 service.
	`Status SMTP 4.0`	Reports status of Simple Mail Transfer Protocol service.
	`Status WWW 4.0 Service`	Reports Status Of World Wide Web Publishing Services And Processes.
	`Status WWW 4.0 Site(s)`	Reports status of IIS 4.0 World Wide Web publishing server site(s).
	`Stop WWW 4.0`	Stops World Wide Web publishing service.
	`Stop FTP 4.0`	Stop FTP 4.0
	`Stop IISADMIN 4.0`	Stops IISADMIN 4.0 services.
	`Stop Index 4.0`	Stops Index 4.0 services.
	`Stop NNTP 4.0`	Stops Network News Transfer Protocol 4.0 service.

Table 7 **Web Server Application Group and Applications**

Application Group	Application Name	Description
MS IIS 4.0	`Stop SMTP 4.0`	Stops Simple Mail Transfer Protocol service
MS IIS 5.0	`Restart IIS 5.0`	Restarts IIS 5.0 services.
	`Start FTP 5.0`	Starts FTP publishing services.
	`Start IIS 5.0`	Starts IIS 5.0 services.
	`Start Index 5.0`	Starts Index 5.0 services.
	`Start NNTP 5.0`	Starts Network News Transfer Protocol 5.0 service.
	`Start SMTP 5.0`	Starts Simple Mail Transfer Protocol service.
	`Start WWW 5.0`	Starts World Wide Web publishing service.
	`Status FTP 5.0 Service`	Reports status of FTP publishing service.
	`Status FTP 5.0 Site(s)`	Reports status of IIS 5.0 FTP publishing server site(s).
	`Status IIS 5.0`	Reports status of IIS 5.0 services and processes.
	`Status Index 5.0`	Reports status of Index 5.0 service.
	`Status NNTP 5.0`	Reports status of Network News Transfer Protocol 5.0 service.
	`Status SMTP 5.0`	Reports status of Simple Mail Transfer Protocol service.
	`Status WWW 5.0 Service`	Reports status of World Wide Web publishing service.
	`Status WWW 5.0 Site(s)`	Reports status of IIS 5.0 World Wide Web publishing server site(s).
	`Stop IIS 5.0`	Stops IIS 5.0 services.

Table 7 **Web Server Application Group and Applications**

Application Group	Application Name	Description
MS IIS 5.0	`Stop IIS 5.0`	Stops IIS 5.0 services.
	`Stop Index 5.0`	Stops Index 5.0 services.
	`Stop NNTP 5.0`	Stops Network News Transfer Protocol 5.0 service.
	`Stop SMTP 5.0`	Stops Simple Mail Transfer Protocol service.
	`Stop WWW 5.0`	Stops World Wide Web publishing service.
MS SIte Server 3.0	`Start SS 3.0 ACM`	Starts Microsoft Site Server 3.0 Active Channel Multicaster.
	`Start SS 3.0 AS`	Starts Microsoft Site Server 3.0 Authentication service.
	`Start SS 3.0 CRS`	Starts Microsoft Site Server 3.0 Content Deployment service.
	`Start SS 3.0 Gatherer`	Starts Microsoft Site Server 3.0 Gatherer service.
	`Start SS 3.0 LBS`	Starts Microsoft Site Server 3.0 List Builder service.
	`Start SS 3.0 LDAP`	Starts Microsoft Site Server 3.0 LDAP service.
	`Start SS 3.0 MBS`	Starts Microsoft Site Server 3.0 Message Building service.
	`Start SS 3.0 SS`	Starts Microsoft Site Server 3.0 Search service.
	`Status SS 3.0 ACM`	Reports status of Microsoft Site Server 3.0 Active Channel Multicaster.
	`Status SS 3.0 AS`	Reports status of Microsoft Site Server 3.0 Authentication service.

Table 7 **Web Server Application Group and Applications**

Application Group	Application Name	Description
MS SIte Server 3.0	`Status SS 3.0 CRS`	Reports status of Microsoft Site Server 3.0 Content Deployment service.
	`Status SS 3.0 Gatherer`	Reports status of Microsoft Site Server 3.0 Gatherer service.
	`Status SS 3.0 LBS`	Reports status of Microsoft Site Server 3.0 List Builder service.
	`Status SS 3.0 LDAP`	Reports status of Microsoft Site Server 3.0 LDAP service.
	`Status SS 3.0 MBS`	Reports status of Microsoft Site Server 3.0 Message Builder service.
	`Status SS 3.0 SS`	Reports status of Microsoft Site Server 3.0 Search service.
	`Stop SS 3.0 ACM`	Stops Microsoft Site Server 3.0 Active Channel Multicaster.
	`Stop SS 3.0 AS`	Stops Microsoft Site Server 3.0 Authentication service.
	`Stop SS 3.0 CRS`	Stops Microsoft Site Server 3.0 Content Deployment service.
	`Stop SS 3.0 Gatherer`	Stops Microsoft Site Server 3.0 Gatherer service.
	`Stop SS 3.0 LBS`	Stops Microsoft Site Server 3.0 List Builder service.
	`Stop SS 3.0 LDAP`	Stops Microsoft Site Server 3.0 LDAP service.
	`Stop SS 3.0 MBS`	Stops Microsoft Site Server 3.0 Message Builder service.
	`Stop SS 3.0 SS`	Stops Microsoft Site Server 3.0 Search service.

Application Group:WinOSSPI Discovery

This group contains an application that launches Service Discovery on node(s) or node groups. The Discovery application, installed by the WinOS SPI, is used to discover the services that you want to monitor on the managed nodes. Table 8 lists the application present in the `WinOSSPI Discovery` application group and provides a brief description.

Table 8 **WinOSSPI Discovery Application**

Application Name	Description
`Service Discovery`	determines the services that you want to monitor on the managed nodes.

For more information on Service Discovery, see "Service Discovery" on page 179.

Application Group: WinOSSPI Utils

This group contains applications which are intended to be used by the OVO administrator who is responsible for the administration of the WinOS SPI uninstallation and tracing. Table 9 lists the applications present in the `WinOSSPI Utils` application group and provides a brief description.

Table 9 **WinOSSPI Utils Application**

Application Name	Description
`Clean Node`	removes the configuration data generated and used by the WinOS SPI on the OVO managed node.
`Clean Server`	removes the configuration data generated and used by the WinOS SPI on the OVO management server.
`Tracing Off`	disable tracing and set the trace level to 0.
`Tracing On`	enable tracing and set the trace level to 1.

4 Templates and Template Groups

This chapter provides an overview and detailed descriptions of HP OpenView VantagePoint Operations SPI for Microsoft Windows OS templates.

Templates

WinOS SPI provides a set of pre configured templates for Microsoft Windows nodes. These templates enable you to monitor the operations and performance of the services that run on these nodes. A complete list of the templates available begins on page 65.

WinOS SPI enables you to deploy templates manually according to your own requirements. Also, by modifying the pre configured templates you can quickly create custom templates for your own specialized purposes.

NOTE

Logfile templates that read the `Windows Event Log` files do not have a pre configured interval. The templates do not require an interval for event log entries because the agent registers events triggered when an entry is made in the `Event Log` file.

WMI Templates Support

The WinOS SPI includes functionality that accesses Windows Management Instrumentation (WMI) as a data provider for monitoring data of different managed applications. In the current version of the WinOS SPI this functionality is provided as black-box functionality, not as an officially supported functionality for OVO.

You can set polling interval and threshold parameters for the existing templates.

The current version of OVO and the WinOS SPI does *not* support the following:

- Changing template data collection
- Creating new, additional, or derived WMI templates based on the technology provided by WinOS SPI

Prerequisites

The prerequisites for some WinOS SPI templates are described below.

Prerequisites for ADS Templates

The following WinOS SPI templates need additional tools:

- WINOSSPI-ADS_DNSAvailableSRV
- WINOSSPI-ADS_DNSDDNS
- WINOSSPI-ADS_DNSNameResolution
- WINOSSPI-ADS_FSMODomainOwner
- WINOSSPI-ADS_FSMORole
- WINOSSPI-ADS_PDCOwner
- WINOSSPI-ADS_SiteConnectivity
- WINOSSPI-ADS_USNProbing

For every Windows 2000 managed node on which you intend to deploy these ADS templates, install the following:

- Microsoft Windows 2000 Resource Kit
- Windows 2000 Support Tools (located on the Windows 2000 CD)
- Updated version of `dcdiag`

You can download the updated version of `dcdiag` from:

```
http://download.microsoft.com/download/win2000platform/
Update/5.0.2195.2103/NT5/EN-US/dcdiag_setup.exe
```

NOTE For the WINOS-ADS_SiteConnectivity template, Windows 2000 Support Tools are not necessary.

Prerequisites for WINOSSPI-ADS_SiteChanges

Before deploying the WINOSSPI-ADS_SiteChanges template, run the following script on the managed node:

```
winosspi_CreateWMIInstance-ds_site.vbs
```

This script is deployed to the managed nodes in the following directory:

```
%OvAgentDir%\bin\opc\cmds directory
```

The script is not used for templates, but is rather an initialization of a monitored node. This initialization is required to monitor changes to the site structure. By default, Windows 2000 WMI does not create information about existing sites of a given forest. The script fills this gap. Before deploying the WINOSSPI-ADS_SiteChanges template, use the script to create a WMI ds_site instance for the site the given node belongs to.

For example, to manage the site changes for Site1 in the hp.com domain on the node, enter:

```
CreateWMIInstance-ds_site.vbs

LDAP://CN=Site1,CN=Sites,CN=Configuration,DC=hp,DC=com
```

You need to make this entry for all sites you want to monitor.

You can either make this entry on each domain controller for the site and deploy the template to each domain controller, or you can make all entries on one domain controller and deploy the template only to that domain controller to monitor the site changes for all sites.

Using Templates

This section describes in detail the preconfigured templates provided by WinOS SPI.

NOTE For Windows XP managed nodes, use the templates grouped under Windows 2000.

Template Groups

The installation of the WinOS SPI uploads a number of template groups to the OVO database.

Figure 10 **WinOS SPI Template Group**

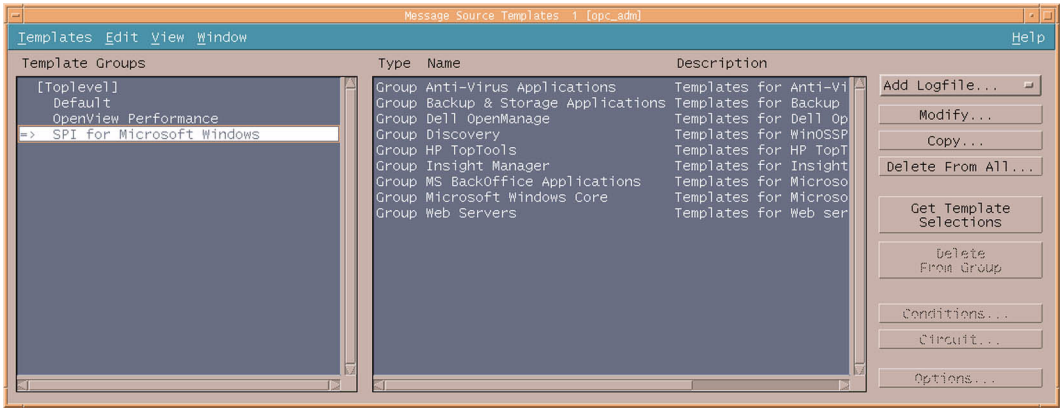


Figure 10 shows the high-level template groups that are installed by default with the Win OS SPI software, namely:

- Anti-Virus Applications
- Backup & Storage Applications
- Dell OpenManage
- Discovery
- HP TopTools
- Insight Manager
- MS BackOffice Applications
- Microsoft Windows Core
- Web Servers

Most of the Win OS SPI default template groups contain subgroups that are consecutively divided into:

- Diagnostic Templates – These templates help monitor the health of applications, systems and services. Diagnostic templates generate messages under alarm conditions.
- Additional Templates – These templates are informative in nature and if deployed many messages appear in the messages browser.

NOTE

In most cases, only the diagnostic group should be assigned. Assign the additional group only if you want to receive all informational messages written to the Windows event logs.

Example: Anti Virus Application ->McAfee VirusScan -> McAfee Diagnostic -> <Template Name>

Anti Virus Application ->McAfee VirusScan ->McAfee Additional -> <Template Name>

Anti Virus Applications

The template groups under Anti Virus applications are:

- **McAfee VirusScan**
- **Norton Anti-Virus**

McAfee VirusScan –> Diagnostic

WINOSSPI-McAfee_FwdAllWarnError

Description

Monitors the Application log for entries with a severity level of Warning or Error and the following sources: McAutoUpdate, McLogEvent. Forwards each found entry as a message to the active message browser.

WINOSSPI-McAfee_AVSyncMgr

Description

Checks the AV Sync Manager service and its correponding process.

WINOSSPI-McAfee_McShield

Description

Checks the McShield service and its corresponding process.

McAfee VirusScan –> Additional

WINOSSPI-McAfee_FwdAllInformation

Description

Monitors the Application log for entries with a severity level of Information and the following sources: McAutoUpdate, McLogEvent. Forwards each found entry as a message to the active message browser.

Norton Anti-Virus -> Diagnostic

WINOSSPI-NAV_FwdAllApplWarnError

Description

Forwards all Application log entries with a severity level of Warning or Error.

WINOSSPI-NAV_FwdAllSysWarnError

Description

Forwards all System log entries with a severity level of Warning or Error.

WINOSSPI-NAV_NortonAVServer

Description

Checks the Norton Anti-Virus Server

Norton Anti-Virus -> Additional

WINOSSPI-NAV_FwdAllApplInfo

Description

Forwards all Application log entries with a severity level of Information.

WINOSSPI-NAV_FwdAllSysInfo

Description

Forwards all System log entries with a severity level of Information.

Backup and Storage Applications

The groups of Backup and Storage application templates are:

- **HP OpenView OmniBack II**
- **VERITAS Backup Exec**

HP OpenView OmniBack II –> Diagnostic

WINOSSPI-HPOmniBackII_FwdAllWarnError

Description

Forwards all event log entries with a severity level of Warning or Error.

HP OpenView OmniBack II –>Additional

WINOSSPI-HPOmniBackII_FwdAllInformation

Description

Forwards all event log entries with a severity level of Information.

VERITAS Backup Exec –> Diagnostic

WINOSSPI-VeritasBackupExec_FwdAllWarnError

Description

Forwards all event log entries with severity level of Warning or Error.

VERITAS Backup Exec –> Additional

WINOSSPI-VeritasBackupExec_FwdAllInformation

Description

Forwards all event log entries with severity level of Information.

Discovery

WINOSSPI-Discovery

Description

Message template that intercepts and generates Discovery related messages, when Service Discovery is executed on the managed node.

Severity	Message
Normal	Windows OS SPI Discovery started on the node.
Normal	Windows OS SPI Discovery ended on the node.
Critical	Windows OS SPI Discovery failed with errors. See the log file on the node for details.

HP TopTools

HP TopTools -> Diagnostic

WINOSSPI-TopTools_FwdAllApplWarnError

Description

Monitors the Application log for entries from HPEventLog, HP TopTools, and various other HP TopTools that have a severity level of Warning or Error. (For a full list, double-click the template and select the Rules tab in the monitor editor that appears.) Forwards these entries as messages to the active message browser.

HP TopTools -> Additional

WINOSSPI-TopTools_FwdAllApplInformation

Description

Supresses all events with a severity level of Warning or Error. Forwards some special events and all events with Information severity and source HPEventLog or HP TopTools.

Dell OpenManage

Dell OpenManage -> Diagnostic

WINOSSPI-DellServerAgent_FwdEventLogEntries

Description

Forwards Dell OpenManage Server Agent's event log entries.

WINOSSPI-DellServer_FwdEventLogEntries

Description

Forwards Dell OpenManage Server Administrator's event log entries.

Insight Manager

Insight Manager -> Diagnostic -> Foundation Agents

WINOSSPI-InsightManager_FoundationAgents

Description

Checks the Foundation Agents service and its corresponding process.

Insight Manager -> Diagnostic -> Hardware Traps

NOTE

The Operator Initiated Action in the templates executes a Perl script named `winosspi_IMAgentInterface.pl`. This Perl script opens a web browser displaying the System Management Homepage of the Node from which the message is received. The Operator Initiated Action will function only if Perl 5.6.1 or above is installed on the machine and a link to it exists in "/usr/bin".

WINOSSPI-InsightManager_FwdChannelArrayTraps

Description

Forwards Insight Manager Fibre Channel Array SNMP traps.

WINOSSPI-InsightManager_FwdClusterTraps

Description

Forwards Insight Manager Cluster SNMP traps.

WINOSSPI-InsightManager_FwdCMCTraps

Description

Forwards Insight Manager Console Management Controller SNMP traps.

WINOSSPI-InsightManager_FwdDMITraps

Description

Forwards Insight Manager DMI SNMP traps.

WINOSSPI-InsightManager_FwdDriveArrayTraps

Description

Forwards Insight Manager Intelligent Drive Array SNMP traps.

WINOSSPI-InsightManager_FwdHostOSTraps

Description

Forwards Insight Manager Host Operating System SNMP traps.

WINOSSPI-InsightManager_FwdICATraps

Description

Forwards Insight Manager Intelligent Cluster Administrator SNMP traps.

WINOSSPI-InsightManager_FwdIDEDriveTraps

Description

Forwards Insight Manager Manageable IDE Drive SNMP traps.

WINOSSPI-InsightManager_FwdNICTraps

Description

Forwards Insight Manager Network Interface Card SNMP traps.

WINOSSPI-InsightManager_FwdPCConfigTraps

Description

Forwards Insight Manager PC Equipment Configuration SNMP traps.

WINOSSPI-InsightManager_FwdRackTraps

Description

Forwards Insight Manager Rack Information SNMP traps.

WINOSSPI-InsightManager_FwdRaidControllerTraps

Description

Forwards Insight Manager RAID Controller SNMP traps.

WINOSSPI-InsightManager_FwdRecoverySvrTraps

Description

Forwards Insight Manager Recovery Server SNMP traps.

WINOSSPI-InsightManager_FwdSANTraps

Description

Forwards Insight Manager Storage Area Network SNMP traps.

WINOSSPI-InsightManager_FwdSCSIDevicesTraps

Description

Forwards Insight Manager SCSI Devices SNMP traps.

WINOSSPI-InsightManager_FwdServerMgrTraps

Description

Forwards Insight Manager Server Manager SNMP traps.

WINOSSPI-InsightManager_FwdSTEAMTraps

Description

Forwards Insight Manager StorageWorks Enterprise Array Manager SNMP traps.

WINOSSPI-InsightManager_FwdStorageSysTraps

Description

Forwards Insight Manager Storage Systems SNMP traps.

WINOSSPI-InsightManager_FwdSvrHealthTraps

Description

Forwards Insight Manager Server Health SNMP traps.

WINOSSPI-InsightManager_FwdSWCCTraps

Description

Forwards Insight Manager StorageWorks Command Console SNMP traps.

WINOSSPI-InsightManager_FwdSysInfoTraps

Description

Forwards Insight Manager System Information SNMP traps.

WINOSSPI-InsightManager_FwdThresholdMgmtTraps

Description

Forwards Insight Manager Threshold Management SNMP traps.

WINOSSPI-InsightManager_FwdUPSTraps

Description

Forwards Insight Manager Uninterrupted Power Supply SNMP traps.

Insight Manager -> Diagnostic -> Storage Agents

WINOSSPI-InsightManager_StorageAgents

Description

Checks the Storage Agents service and its corresponding process.

Insight Manager -> Diagnostic -> Remote Insite Lights Out

WINOSSPI-InsightManager_FwdRIBTraps

Description

Forwards Insight Manager Remote Insight Board SNMP traps.

Insight Manager -> Diagnostic -> NIC Agents

WINOSSPI-InsightManager_NICAgents

Description

Checks the NIC Agents service and its corresponding process.

Insight Manager –> Diagnostic –> Server Agents

WINOSSPI-InsightManager_ServerAgents

Description

Checks the Server Agents service and its corresponding process.

Insight Manager –> Diagnostic –> Version Control Agents

WINOSSPI-InsightManager_VCAgent

Description

Checks the Version Control Agent service and its corresponding process.

Microsoft BackOffice Applications

The template groups under Microsoft BackOffice applications are:

- **MS Certificate Server**
- **MS Cluster Server**
- **MS Index Server**
- **MS Message Queue Server**
- **MS Proxy Server 2.0**
- **MS SNA Server 4.0**
- **MS SQL Server**
- **MS Systems Management Server 2.0**
- **MS Transaction Server 2.0**

MS Certificate Server

MS Certificate Server -> Diagnostic

WINOSSPI-MSCertSvr_FwdAllWarnError

Description

Forwards all event log entries with a severity level of Information.

MS Certificate Server -> Additional

WINOSSPI-MSCertSvr_FwdAllInformation

Description

Forwards all event log entries with a severity level of Information.

MS Cluster Server

MS Cluster Server -> Diagnostic

WINOSSPI-MSCS_FwdAllWarnError

Description

Forwards all event log entries with a severity level of Warning or Error.

WINOSSPI-MSCS_FwdCritLogEntries

Description

Checks the Cluster log for new entries containing the following key words:

- error
- failed
- offline
- service
- shut down
- stop
- unable

Forwards these as critical messages to the active message browser. To use this template, you must have cluster-logging enabled.

NOTE Cluster logging must be enabled to use this template (For more information, see Microsoft Knowledge Base article Q168801).

WINOSSPI-MSCS_ClusterServer

Description

Checks the Cluster Server service and its corresponding process.

MS Cluster Server ->Additional

WINOSSPI-MSCertSvr_FwdAllInformation

Description

Forwards all event log entries with a severity level of Information.

MS Index Server

Index Server Windows 2000 -> Additional

WINOSSPI-MSIndexServer_FwdAllInformation

Description

Forwards all event log entries with a severity level of Information.

Index Server Windows 2000 -> Diagnostic

WINOSSPI-MSIndexServer_FwdAllWarnError

Description

Forwards all event log entries with a severity level of Information.

WINOSSPI-MSIndexServer_Indexing Service_FilesToBeIndexed

Description

Indexing Service Files To Be Indexed

WINOSSPI-MSIndexServer_IndexingService_NumDocumentsIndexed

Description

Indexing Service Number of Documents Indexed

Index Server Windows NT 4.0 -> Additional

WINOSSPI-MSIndexServer_FwdAllInformation

Description

Forwards all event log entries with a severity level of Information.

Index Server Windows NT 4.0 -> Diagnostic

WINOSSPI-MSIndexServer_FwdAllWarnError

Description

Forwards all event log entries with a severity level of Information.

WINOSSPI-MSIndexServer_ContentIndex_FilesToBeFiltered

Description

Checks Files to be filtered counter of the Content Index object.

WINOSSPI-MSIndexServer_ContentIndex_NumDocumentsFiltered

Description

Provides information about the # documents filtered counter of the Content Index object.

MS Message Queue Server

MS Message Queue Server -> Additional

WINOSSPI-MSMQ_FwdAllInfo

Description

Forwards all Application log entries with a severity level of Information.

MS Message Queue Server -> Diagnostic

WINOSSPI-MSMQ_FwdAllWarnError

Description

Forwards all Application log entries with a severity level of Warning or Error.

WINOSSPI-MSMQ_JournalQueue

Description

Checks the Journal queue.

WINOSSPI-MSMQ_MSMQ

Description

Checks the MSMQ service and its corresponding process.

WINOSSPI-MSMQ_QueueSize

Description

Checks the Queue size.

MS Proxy Server 2.0

MS Proxy Server 2.0 -> Additional

WINOSSPI-MSPS20_FwdAllInformation

Description

Forwards all log entries with a severity level of Information.

MS Proxy Server 2.0 -> Diagnostic

WINOSSPI-MSPS20_FwdAllWarnError

Description

Forwards all System event log entries with Warning or Critical severity.

WINOSSPI-MSPS20_SrvProcMon_ProxyAlrtNotificationSvc

Description

Checks the Proxy Alert Notification Service and its corresponding process.

WINOSSPI-MSPS20_SrvProcMon_ServerAdministration

Description

Checks the Microsoft Proxy Server Administration service and its correponding process.

WINOSSPI-MSPS20_SrvProcMon_WinSockProxySvc

Description

Checks the Microsoft WinSock Proxy Service and its correponding process.

WINOSSPI-MSPS20_ThreadPoolFailures

Description

Checks the Thread Pool Failures counter of the Web Proxy Server Service object.

WINOSSPI-MSPS20_TotalDroppedFrames

Description

Checks the Total Dropped Frames counter of the Packet Filtering object.

WINOSSPI-MSPS20_TotalFailedSocksSessions

Description

Checks the Total Failed Socks Sessions counter of the Web Proxy Server Service object.

WINOSSPI-MSPS20_TotalFailingRequests

Description

Checks the Total Failing Requests counter of the Web Proxy Server Service object.

MS SNA Server 4.0

MS SNA Server 4.0 -> Diagnostic

WINOSSPI-SNA40_FwdAllWarnError

Description

Forwards all Application log entries with Warning or Error severity, and all other event log entries with the following source:

- SNA Server
- SNA Manage Agent
- SNA Base Service
- SNA Print Server

WINOSSPI-SNA40_SNABASE

Description

Checks the SNABASE service and its corresponding process.

MS SNA Server 4.0 -> Additional

WINOSSPI-SNA40_FwdAllInformation

Description

Monitors the Application log for entries with a severity level of Information and the following sources:

- SNA Base Service
- SNA Manage Agent
- SNA Print Server
- SNA Server

Forwards each found entry as a message to the active message browser.

MS SQL Server

MS SQL Server -> SQL Server 2000 -> Diagnostic

WINOSSPI-SQL2K_FwdAllWarnError

Description

Monitors the Application log for entries with a severity level of Warning or Error and the following source:

- DataTransformationServices
- MSSQLServer
- SQLCTR80
- SQLServerAgent
- SQLServerProfiler

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL2K_MSQLServer

Description

Checks, approximately every five minutes, whether the service MSSQLServer and its associated process sqlserver.exe are running. If they are not running, the template sends a message to the active message browser.

The operator can restart the service with an operator-initiated action. When the service is running again, the template acknowledges the message.

WINOSSPI-SQL2K_PctLogUsed

Description

Checks, approximately every five minutes, for the percentage of logfile space used (the PerfMon counter is SQLServer:Databases\Percent Log Used). If the percentage of logfile space used is 85% or more, the template sends a critical message to the active message browser. If the percentage is between 75% and 85%, the template sends a warning message. When the value falls below the either threshold again, the template sends a message to the active message browser, and acknowledges all warning and error messages from this template for this instance.

WINOSSPI-SQL2K_PndngReplTransInDB

Description

Checks, approximately every five minutes, for the number of pending replication transactions in the database (the PerfMon counter is `SQLServer:Databases\Repl`. Pending Xacts). If the value is 100 or more, three times in a row, the template sends a critical message to the active message browser. If the value is between 75 and 100, three times in a row, the template sends a warning message. When the value falls below either threshold again, the template sends a message to the active message browser, and acknowledges all warning and error messages from this template for this instance.

WINOSSPI-SQL2K_UserConnections

Description

Checks, approximately every five minutes, for the number of user connections to the database (the PerfMon counter is SQLServer:General Statistics\User Connections). If the number of connections is more than 90, the template sends a critical message to the active message browser. If the number of connections is between 80 and 90, the template sends a warning.

When the value falls below either threshold again, the template sends a message to the active message browser, and acknowledges all warning and error messages from this template for this instance.

WINOSSPI-SQL2K_CacheHitRatio

Description

Checks, approximately every five minutes, for the percentage of pages available without reading from disk (the PerfMon counter is SQLServer:Buffer Manager\Buffer Cache Hit Ratio). If the value is 75% or less, three times in a row, the template sends a critical message to the active message browser. If the value is between 75% and 85%, three times in row, the template sends a warning message. When the value rises above either threshold again, the template sends a message to the active message browser.

MS SQL Server -> SQL Server 2000 -> Additional

WINOSSPI-SQL2K-FwdAllInformation

Description

Monitors the Application log for entries with a severity level of Information and the following source:

- DataTransformationServices
- MSSQLServer
- SQLCTR80
- SQLServerAgent
- SQLServerProfiler

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL2K-SQLServerAgent

Description

Checks, approximately every five minutes, whether the service SQLServerAgent and its associated process sqlagent.exe are running. If they are not running, the template sends a message to the active message browser. The operator can restart the service with an operator-initiated action. When the service is running again, the template acknowledges the message.

MS SQL Server -> SQL Server 6.5 -> Diagnositc

WINOSSPI-SQL65_FwdAllWarnError

Description

Monitors the Application log for entries with a severity level of Warning or Error and the following source:

- MSSQLServer
- SQLCTR65
- SQLExecutive

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL65_Licensing

Description

Checks, approximately every five minutes, for the number of available client licenses. If 90% or more of client licenses are in use, the template sends a critical message to the active message browser. If between 80% and 90% of client licenses are in use, the template sends a warning message. When the value falls below either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL65_LogUsage

Description

Checks, approximately every five minutes, for the percentage of logfile space used. If the value is 85% or more, the template sends a critical message to the active message browser. If the value is between 75% and 85%, the template sends a warning message. When the value falls below either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL65_LogWritesSec

Description

Checks, approximately every five minutes, for the number of input/output (I/O) log writes per second (the PerfMon counter is SQLServer\Log Writes/sec). If the number is 70 or more, three times in a row, the monitor sends a

critical message to the active message browser. If the number is between 60 and 70, three times in a row, the monitor sends a warning message. If the number falls below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL65_MSSQLServer

Description

Checks, approximately every five minutes, whether the service MSSQLServer and its associated process sqlservr.exe are running. If they are not running, the monitor sends a message to the active message browser.

The operator can restart the service using an operator-initiated command. When the service is running again, the monitor acknowledges the message.

WINOSSPI-SQL65_NetCmdQueueLength

Description

Checks, approximately every five minutes, for long command queues (the PerfMon counter is SQLServer\NET - Command Queue Length). If the value is 10 or more, the monitor sends a critical message to the active message browser. If the value is between 5 and 10, the monitor sends a warning message. If the value falls below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL65_OutstdReads

Description

Checks, approximately every five minutes, for the number of outstanding input/output (I/O) reads (the PerfMon counter is SQLServer\I/O - Outstanding Reads). If the number of outstanding reads is 30 or more, twice in a row, the monitor sends a critical message to the active message browser.

If the number of reads is between 20 and 30, the monitor sends a warning message. If the values fall below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL65_OutstdWrites

Description

Checks, approximately every five minutes, for the number of outstanding input/output (I/O) writes (the PerfMon counter is SQLServer\I/O - Outstanding Writes). If the number of outstanding writes is 30 or more, twice in a row, the monitor sends a critical message to the active message browser. If the number of writes is between 20 and 30, the monitor sends a warning message. If the values fall below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL65_PageReads

Description

Checks, approximately every five minutes, for the number of single page reads issued per second (the PerfMon counter is SQLServer\I/O - Page Reads/sec). If the number of page reads per second is 120 or more, three times in a row, the template sends a critical message to the active message browser. If the value is between 100 and 120, three times in a row, the template sends a warning message. When the value falls below either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL65_PageWrites

Description

Checks, approximately every five minutes, for the number of single page writes issued per second (the PerfMon counter is SQLServer\I/O - Page Writes/sec). If the number of single page writes per second is 150 or more, three times in a row, the template sends a critical message to the active message browser. If the value is between 100 and 150, three times in a row, the template sends a warning message. When the value falls below either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL65_ReplctdTrnsactns

Description

Checks, approximately every five minutes, for high levels of replicated transactions (the PerfMon counter is SQLServer Replication-Published DB\Replicated Transactions). If the value is 1500 or more, the monitor sends a critical message to the active message browser. If the values is between 1000 and 1500, the monitor sends an error message. If the value falls below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL65_CacheFreeBuffer

Description

Checks, approximately every five minutes, for the number of free buffers in the cache (the PerfMon counter is SQLServer\Cache - Number of free

buffers). If the number is less than 75, three times in a row, the template sends an error message to the active message browser. If the number is less than 100, three times in a row, the template sends a warning message to the active message browser. When the value rises above either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL65_CacheHitRatio

Description

Checks, approximately every five minutes, for the percentage of pages available without reading from disk (the PerfMon counter is SQLServer\Cache Hit Ratio). If the value is 75% or less, three times in a row, the template sends a critical message to the active message browser. If the value is between 75% and 85%, three times in row, the template sends a warning message. When the value rises above either threshold again, the template sends a message to the active message browser.

MS SQL Server –> SQL Server 6.5 –> Additional

WINOSSPI-SQL65_FwdAllInformation

Description

Monitors the Application log for entries with a severity level of Information and the following source:

- MSSQLServer
- SQLCTR65
- SQLExecutive

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL65_SQLExecutive

Description

Checks, approximately every five minutes, whether the service SQLExecutive and its associated process sqlexec.exe are running. If they are not running, the monitor sends a message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the monitor acknowledges the message.

MS SQL Server -> Server 7.0 -> Diagnostic

WINOSSPI-SQL70_FwdAllWarnError

Description

Monitors the Application log for entries with the severity Warning and the source:

- DataTransformationServices
- MSSQLServer
- SQLCTR70
- SQLServerAgent
- SQLServerProfiler

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL70_MSSQLServer

Description

Checks, approximately every five minutes, whether the service MSSQLServer and its associated process sqlservr.exe are running. If they are not running, the monitor sends a message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the monitor acknowledges the message.

WINOSSPI-SQL70_PctLogUsed

Description

Checks, approximately every five minutes, for the percentage of logfile space used. If the value is 85% or more, the template sends a critical message to the active message browser. If the value is between 75% and 85%, the template sends a warning message. When the value falls below

either threshold again, the template sends a message to the active message browser.

WINOSSPI-SQL70_PndngReplTransInDB

Description

Checks, approximately every five minutes, for the number of pending replication transactions in the database. If the value is 100 or more, three times in a row, the template sends a critical message to the active message browser. If the value is between 75 and 100, three times in a row, the template sends a warning message. When the value falls below either threshold, the template sends a message to the active browser.

WINOSSPI-SQL70_CacheHitRatio

Description

Checks, approximately every five minutes, for the percentage of pages available without reading from disk (the PerfMon counter is SQLServer:Buffer Manager\Buffer Cache Hit Ratio). If the value is between 75% and 85%, three times in row, the monitor sends a warning message. If the value falls below the threshold again, the monitor sends a message to the acknowledged message browser. If the value is 75% or less, three times in a row, the monitor sends a critical message to the active message browser.

WINOSSPI-SQL70_FreeBuffers

Description

Checks, approximately every five minutes, for the number of free buffers available (the PerfMon counter is SQLServer:Buffer Manager\Free Buffers). If the value is 1000 or less, twice in a row, the monitor sends a critical message to the active message browser. If the value is between 1000 and 1500, the monitor sends a warning message. If the value falls below the threshold again, the monitor sends a message to the acknowledged message browser.

WINOSSPI-SQL70_UserConnections

Description

Checks, approximately every five minutes, for the number of user connections to the database (the PerfMon counter is SQLServer:General

Statistics\User Connections). If the number of connections is more than 90, the monitor sends a critical message to the active message browser. If the number of connections is between 80 and 90, the monitor sends a warning. If the value falls below the threshold again, the monitor sends a message to the acknowledged message browser.

MS SQL Server -> SQL Server 7.0 -> Additional

WINOSSPI-SQL70_FwdAllInformation

Description

Monitors the Application log for entries with a severity level of Information and the source:

- DataTransformationServices
- MSSQLServer
- SQLCTR70.Chapter 5 – About SPI for Windows+ Templates
- SQLServerAgent
- SQLServerProfiler

Forwards each found entry as a message to the active message browser.

WINOSSPI-SQL70_SQLServerAgent

Description

Checks, approximately every five minutes, whether the service SQLServerAgent and its associated process sqlagent.exe are running. If they are not running, the monitor sends a message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the monitor acknowledges the message.

MS Systems Management Server 2.0

MS Systems Management Server 2.0 -> Diagnostic

WINOSSPI-SMS20_FwdAllWarnError

Description

Forwards all Application log entries with Warning or Error severity and the following source:

- SMS Client
- SMS Provider
- SMS Server
- SMSPerf

WINOSSPI-SMS20_SMS_CLIENT_SERVICE

Description

Checks the SMS_CLIENT_SERVICE service and its corresponding process.

WINOSSPI-SMS20_SMS_EXECUTIVE

Description

Checks the SMS_EXECUTIVE service and its corresponding process.

WINOSSPI-SMS20_SMS_SITE_COMPONENT

Description

Checks the SMS_SITE_COMPONENT_MANAGER service and its corresponding process.

WINOSSPI-SMS20_SMS_SQL_MONITOR

Description

Checks the SMS_SQL_MONITOR service and its corresponding process.

MS Systems Management Server 2.0 -> Additional

WINOSSPI-SMS20_FwdAllInformation

Description

Forwards all Application log entries with Information severity and the following source:

- SMS Client
- SMS Provider

- SMS Server
- SMSPerf

MS Transaction Server 2.0

MS Transaction Server 2.0 -> Diagnostic

WINOSSPI-MTS20_FwdAllApplWarnError

Description

Forwards all Application log entries with a severity level of Warning or Error.

WINOSSPI-MTS20_MSDTC

Description

Checks the MSDTC service and its corresponding process.

MS Transaction Server 2.0 -> Additional

WINOSSPI-MTS20_FwdAllApplInfo

Description

Forwards all Application log entries with a severity level of Information.

Microsoft Windows Core

MS Active Directory Server -> ADS Additional

AD Connector

WINOSSPI-ADS_ActiveAuthKerberos

Description

Checks the NTDS\Kerberos Authentications counter for the number of successful authentications processed by the domain controller. If the number is 10 or more, the template sends a warning message to the active message browser. If the number is 30 or more, the template sends an error message. If the value exceeds the upper threshold, the existing domain controllers should be upgraded or additional domain controllers should be installed.

WINOSSPI-ADS_ActiveAuthLogon

Description

Checks the Server\Logon/sec counter for the number of successful authentications processed by the domain controller. If the number is 10 or more, the template sends a warning message to the active message browser. If the number is 30 or more, the template sends an error message. If the value exceeds the upper threshold, the existing domain controllers should be upgraded or additional domain controllers should be installed.

WINOSSPI-ADS_ActiveAuthNTLM

Description

Checks the NTDS\NTLM Authentications counter for the number of successful authentications processed by the domain controller. If the number is 10 or more, the template sends a warning message to the active message browser. If the number is 30 or more, the template sends an error message. If the value exceeds the upper threshold, the existing domain controllers should be upgraded or additional domain controllers should be installed.

WINOSSPI-ADS_ADCFwdAllWarnErrorMSADC

Description

Monitors the Application log for entries from MSADC that have a severity level of Warning or Error. Forwards these entries as messages to the active message browser.

Functions only with the integration of Exchange. Without Exchange, the `adc` process, which the template observes, does not exist.

WINOSSPI-ADS_ADCImportFailures

Description

Checks the `PerfLib` counter `MSADC\Rate` of Import Failures for the number of imports that have failed. If the number is 1 or 2, the template sends a warning message to the active message browser. If the number is 3 or higher, the template sends an error message.

This template functions only with the integration of Exchange. Without Exchange, the process adc, which the template observes, does not exist.

WINOSSPI-ADS_ADCPageFaults

Description

Checks the `PerfLib` counter Process\Page Faults\adc for the number of page faults for a process. If the number exceeds 5, the template sends a warning message to the active message browser. If the number exceeds 10, the template sends an error message. A consistently high rate of page faults for a process usually indicates that its working set is not large enough to support the process efficiently. If the system does not have enough available memory to enlarge the working set, it cannot lower the page fault rate.

This template functions only with the integration of Exchange. Without Exchange, the process adc, which the template observes, does not exist.

WINOSSPI-ADS_ADCPrivateBytes

Description

Checks the PerfLib counter Process\Private Bytes\adc for the number of bytes allocated exclusively to the ADC process (that is, bytes that cannot be shared with other processes). If the number exceeds 250, the template sends

a warning message to the active message browser. If the number exceeds 300, the template sends an error message.

This template functions only with the integration of Exchange. Without Exchange, the process adc, which the template observes, does not exist.

WINOSSPI-ADS_ADCProcessorTime

Description

Checks the PerfLib counter Process\Processor Time\adc for the percentage of processor time Active Directory ADC is consuming. If the value exceeds 60%, the template sends a warning message to the active message browser. If the value exceeds 70%, the template sends an error message. If the value exceeds the upper threshold, the Active Directory server may be overloaded, need a hardware upgrade, or need further tuning to optimize performance.

This template functions only with the integration of Exchange. Without Exchange, the process adc, which the template observes, does not exist.

WINOSSPI-ADS_ADCWorkingSet

Description

Checks the PerfLib counter Process\Working Set\adc for the current number of bytes in the working set of the ADC process. If the number exceeds 15,000,000 bytes, the template sends a warning message to the active message browser. If the number exceeds 18,000,000 bytes, the template sends an error message.

This template functions only with the integration of Exchange. Without Exchange, the process adc, which the template observes, does not exist.

MS Active Directory Server -> ADS Additional

AD DNS

WINOSSPI-ADS_DNSDDNS

Description

Checks, approximately every 20 minutes, whether the dynamic DNS update is working correctly. This template relies on the execution of a Visual Basic script that uses the dcdiag tool.

The template checks configuration only. It does not check operation. This template may be deployed only to the top-level DNS server in your ADS environment.

WINOSSPI-ADS_DNSNameResolution

Description

Checks, approximately every 20 minutes, whether the DNS name resolution is working. This template relies on the execution of a Visual Basic script that uses the nslookup tool.

The template may be deployed only to the top-level DNS server in your ADS environment.

WINOSSPI-ADS_DNSServ_FwdAllInformation

Description

Monitors the DNS Server log for entries that have a severity level of Information. Forwards these entries as messages to the active message browser.

AD Domain and OU Structure

WINOSSPI-ADS_DomainChanges

Description

Approximately every 20 minutes, checks for changes to the domain structure.

- Name Space

  Root\Directory\LDAP

- Event Class

  __InstanceOperationEvent

- WQL Filter

  TargetInstance ISA "ds_dnsdomain"

Successful changes in the domain structure affect the size and replication of the Active Directory database.

This template may be deployed only on a domain controller.

WINOSSPI-ADS_OUChanges

Description

Checks, approximately every 20 minutes, for changes to the OU structure.

- Name Space

  `Root\Directory\LDAP`

- Event Class

  `__InstanceOperationEvent`

- WQL Filter

  TargetInstance ISA `ds_organizationalunit`

Successful changes in the OU structure affect the size and replication of the Active Directory database.

This template may be deployed only on a domain controller.

AD Global Catalog Access

WINOSSPI-ADS_GlobalCatalogReads

Description

Checks the NTDS\DS Directory Reads/sec counter, approximately every 30 minutes, for the number of reads from the Global Catalog. If the number is 10 or more, the template sends a warning message to the active message browser. If the number is 25 or more, the template sends an error message. If the value exceeds the upper threshold, either the existing domain controller needs additional hardware or an additional domain controller is needed.

This template may be deployed only to the Global Catalog server.

WINOSSPI-ADS_GlobalCatalogSearches

Description

Checks the NTDS\DS Directory Searches/sec counter, approximately every 30 minutes, for the number of searches of the Global Catalog. If the number is 10 or more, the template sends a warning message to the active message

browser. If the number is 25 or more, the template sends an error message. If the value exceeds the upper threshold, either the existing domain controller needs additional hardware or an additional domain controller is needed.

This template may be deployed only to the Global Catalog server.

WINOSSPI-ADS_GlobalCatalogWrites

Description

Checks the counter NTDS\DS Directory Writes/sec counter, approximately every 30 minutes, for the number of writes to the Global Catalog. If the number is 10 or more, the template sends a warning message to the active message browser. If the number is 25 or more, the template sends an error message. If the value exceeds the upper threshold, either the existing domain controller needs additional hardware or an additional domain controller is needed.

This template may be deployed only to the Global Catalog server.

AD Health Monitors -> Additional

WINOSSPI-ADS_DNSServ_FwdAllInformation

Description

Monitors the DNS Server log for entries that have a severity level of Information. Forwards these entries as messages to the active message browser.

WINOSSPI-ADS_FwdAllInformationDS

Description

Monitors the Directory Service log for entries with a severity level of Information. Forwards them as messages to the active message browser.

WINOSSPI-ADS_FwdAllInformationFRS

Description

Monitors the File Replication Service log for entries with a severity level of Information. Forwards them as messages to the active message browser.

WINOSSPI-ADS_SMTPEventLogs

Description

Monitors the System log for SMTP-specific events. Forwards them as messages to the active message browser.

WINOSSPI-ADS_HMNTFRSPageFaults

Description

Checks the PerfLib counter Process\Page Faults/sec\NTFRS for the number of times a thread requested access to a memory page that was not in memory and therefore had to be read from disk. If the number exceeds 5, the template sends a warning message to the active message browser. If the number exceeds 10, the template sends an error message. If the value obtained from this counter consistently generates messages, physical memory is low.

WINOSSPI-ADS_HMNTFRSPrivateBytes

Description

Checks the PerfLib counter Process\Private Bytes\NTFRS for the number of bytes allocated exclusively to the LSASS process (that is, bytes that cannot be shared with other processes). If the number exceeds 15,000,000 bytes, the template sends a warning message to the active message browser. If the number exceeds 18,000,000 bytes, the template sends an error message. If the number exceeds the upper threshold, there may be a memory leak or some other memory problems.

WINOSSPI-ADS_HMNTFRSProcessorTime

Description

Checks the PerfLib counter Process\% Processor Time\NTFRS for the percentage of processor time the ADS LSASS process is consuming. If the value exceeds 60%, the template sends a warning message to the active message browser. If the value exceeds 70%, the template sends an error message. If the value exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or need further tuning to optimize performance.

WINOSSPI-ADS_HMNTFRSWorkingSet

Description

Checks the PerfLib counter Process\Working Set\NTFRS for the number of memory pages recently touched by threads in the process. If the number exceeds 15,000,000 pages, the template sends a warning message to the active message browser. If the number exceeds 18,000,000 pages, the template sends an error message. If the number exceeds the upper threshold, there may be a memory leak or some other memory problems.

WINOSSPI-ADS_NTFRS

Description

Checks whether the File Replication Service and its corresponding process, ntfrs.exe, are running. If they are not running, the template sends a warning message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the template acknowledges the message.

WINOSSPI-ADS_NtLmSsp

Description

Checks whether the NT LM Security Support Service and its corresponding process, lsass.exe, are running. If they are not running, the template sends a warning message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the template acknowledges the message.

WINOSSPI-ADS_SyncSchemaMissMatch

Description

Checks the PerfLib counter NTDS\DRA Sync Failures on Schema Mismatch for the number of synchronization failures. If the number exceeds 1, the template sends a warning message to the active message browser. If the number exceeds 4, the template sends an error message. If the number exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or require further replication tuning to optimize performance.

AD Operation Master

WINOSSPI-ADS_FSMORole

Description

Checks, approximately every 20 minutes, whether all the operations master roles (FSMO) are active:

- Domain Tree Owner
- Infrastructure Owner
- PDC Owner
- RID Pool Owner
- Schema Owner

The template checks whether the roles are being changed dynamically, whether the forest and domain-centric operations master are consistent across all domain controllers, and whether one of the five FSMO role owner has changed. If the one of the FSMO owners is not active, the template sends an error message to the active message browser.

This template may be deployed only to one domain controller per domain.

WINOSSPI-ADS_PDCOwner

Description

Sends, approximately every hour, a request to the domain controller for the PDC Owner, then sends this value to the management console.

WINOSSPI-ADS_FSMODomainOwner

Description

Checks, approximately every 20 minutes, whether all the operations master roles (FSMO) are active:

- Domain Tree Owner
- Infrastructure Owner
- PDC Owner
- RID Pool Owner
- Schema Owner

The template uses IADSTools.DLL to check whether the roles are being changed dynamically, whether the forest and domain-centric operations master are consistent across all domain controllers, and whether the domain

owner for the server on which the template is deployed is reachable. If the FSMO is not active, the template sends an error message to the active message browser.

This template may be deployed only to one domain controller per forest.

AD Replication

WINOSSPI-ADS_ADSRepInBoundBytesBetweenSites

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DRA Inbound Bytes Compressed (Between Sites, Before Compression)/sec for the number of bytes per second between sites. If the number exceeds 40,000 bytes per second, the template sends a warning message to the active message browser. If the number exceeds 60,000 bytes per second, the template sends an error message. If the Active Directory replication for a server exceeds the upper threshold number of bytes per second between sites, the Active Directory replication may need to be optimized.

WINOSSPI-ADS_ADSRepInBoundBytesWithinSites

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DRA Inbound Bytes Not Compressed (Within Site)/sec for the number of bytes per second within sites. If the number exceeds 40,000 bytes per second, the template sends a warning message to the active message browser. If the number exceeds 60,000 bytes per second, the template sends an error message. If the Active Directory replication for a server exceeds the upper threshold number of bytes per second between sites, the Active Directory replication may need to be optimized.

WINOSSPI-ADS_ADSRepInBoundObjectUpdatesRemaining

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DRA Inbound Object Updates Remaining in Packet for the number of objects remaining. If the number exceeds 10, the template sends a warning message to the active message browser. If the number exceeds 15,

the template sends an error message. If the value exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or need further replication tuning to optimize performance.

WINOSSPI-ADS_ADSRepNotifyQueueSize

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DS Notify Queue Size for the number of jobs in the queue. If the number exceeds 5, the template sends a warning message to the active message browser. If the number exceeds 10, the template sends an error message. If the number exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or need further replication tuning to optimize performance.

WINOSSPI-ADS_ADSPendingSynchronizations

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DRA Pending Replication Synchronizations for the number of synchronizations pending. If the number exceeds 50, the template sends a warning message to the active message browser. If the number exceeds 100, the template sends an error message. If the number exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or need further replication tuning to optimize performance.

AD Replication Activity

WINOSSPI-ADS_ReplicationActivities

Description

Monitors the Directory Service log for replication events.

The granularity of the raised events depends on the following registry key:

```
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\
Diagnostics\5 Replication Events
```

Set this value to **3** to get the following four directory replication events logged in the Directory Services log:

- 1487 – Internal event: The Directory Service has been asked to begin inbound replication
- 1488 – The Directory Service completed the sync request
- 1489 – Internal event: The Directory Service has been asked for outbound changes
- 1490 – Internal event: The Directory Service finished gathering outbound changes

WINOSSPI-ADS_USNProbing

Description

Reports, approximately every 30 minutes, the last committed Update Sequence Number (USN) for replication to and from the managed node as a message to the active message browser.

This template may be deployed only on a domain controller.

AD Security - Additional

WINOSSPI-ADS_DirComputerModif

Description

Checks, approximately every 15 minutes, whether any computer accounts in the directory service tree have been created, deleted, or modified. If so, the template sends a message to the active message browser.

WINOSSPI-ADS_DirUserCreationDeletion

Description

Checks, approximately every 15 minutes, whether any accounts in Directory User Accounts have been created or deleted. If so, the template sends a message to the active message browser.

WINOSSPI-ADS_DirUserModif

Description

Checks, approximately every 15 minutes, whether any accounts in Directory User Accounts have been modified. If so, the template sends a message to the active message browser.

WINOSSPI-ADS_KDCFailureGrantTicket

Description

Monitors the Security log for failures to grant authentication tickets. Failures are indicated by event 676 in the Security Event Log:

```
676 Authentication Ticket Request Failed
```

This template may be deployed only to servers running KDC.

WINOSSPI-ADS_PrivilegedAccounts

Description

Monitors the Security log for entries with the following IDs (success and failure):

- 576 Special privileges assigned to new logon
- 577 Privileged Service Called
- 578 Privileged object operation

Forwards these entries as messages to the active message browser.

NOTE

Windows 2000 does not enable you to select which rights to audit. As a result, auditing Use of User Rights will generate a very large number of audits. In most cases, the sheer volume of this information outweighs its usefulness. Do not audit Use of User Rights unless absolutely necessary for your environment. If you decide to audit Use of User Rights, you should purchase or write an event-analysis tool that can filter only the user rights of interest to your organization.

If Use of User Rights is enabled, not all user rights are audited.

The following user rights are *never* audited:

- Bypass Traverse Checking (SeChangeNotifyPrivilege)
- Generate Security Audits (SeAuditPrivilege)
- Create A Token Object (SeCreateTokenPrivilege)
- Debug Programs (SeDebugPrivilege)

- Replace A Process Level Token (SeAssignPrimaryTokenPrivilege)

The following user rights are audited only if a specific Windows Registry setting is present:

- Backup Files and Directories (SeBackupPrivilege)
- Restore Files and Directories (SeRestorePrivilege)

To enable auditing of the backup and restore privileges, set the following Windows Registry value to **1**:

```
HKLM\SYSTEM\CurrentControlSet\Control\Lsa\FullPrivilegeAud
iting (REG_DWORD)
```

WINOSSPI-ADS_SAMServPropChange

Description

Checks, approximately every five minutes, whether any property of the Security Account Manager server has been modified. If any property has been modified, the template sends a message to the active message browser.

WINOSSPI-ADS_SecErrAccessPermissions

Description

Checks, approximately every five minutes, the PerfMon counter Server\Errors Access Permissions for the number of attempts to access ADS elements that were denied. If the number is between 2 and 4, the template sends a warning message to the active message browser. If the number exceeds 4, the template sends an error message. This counter warns of unauthorized access attempts that randomly seek inadequately protected files.

WINOSSPI-ADS_SecErrAccessPermissions_userbased

Description

Monitors the Security log for unauthorized access to objects. Ignores duplicates within 30-minute intervals. Forwards these entries as messages to the active message browser.

WINOSSPI-ADS_SecErrGrantedAccess

Description

Checks, approximately every five minutes, the PerfMon counter Server\Errors Granted Access for the number of access attempts that opened files successfully but were allowed no further access. If the number is between 2 and 4, the template sends a warning message to the active message browser. If the number is greater than 4, the template sends an error message. This counter warns of attempts to access files without proper authorization.

WINOSSPI-ADS_SecErrGrantedAccess_userbased

Description

Monitors the Security log for failed logon attempts. Ignores duplicate logon attempts within 30-minute intervals.

Depending on whether you are auditing successes, failures, or both, the template forwards the following entries as messages to the active message browser:

- 528 Successful Logon
- 529 Logon Failure: Reason: Unknown user name or bad password
- 530 Logon Failure: Reason: Account logon time restriction violation
- 531 Logon Failure: Reason: Account currently disabled
- 532 Logon Failure: Reason: The specified user account has expired
- 533 Logon Failure: Reason: User not allowed to logon at this computer
- 534 Logon Failure: Reason: The user has not been granted the requested logon type at this machine
- 535 Logon Failure: Reason: The specified account's password has expired
- 536 Logon Failure: Reason: The NetLogon component is not active
- 537 Logon Failure: Reason: An unexpected error occurred during logon
- 538 User Logoff:
- 539 Logon Failure: Reason: Account locked out
- 540 Successful Network Logon

- 541 IPSec security association established.
- 542 IPSec security association ended. Mode: Data Protection (Quick mode)
- 543 IPSec security association ended. Mode: Key Exchange (Main mode)
- 544 IPSec security association establishment failed because peer could not authenticate.
- 545 IPSec peer authentication failed.
- 546 IPSec security association establishment failed because peer sent invalid proposal.
- 547 IPSec security association negotiation failed.

In addition, you can enable success and failure auditing on the Account Logon category of events, which forwards the following events as messages to the active message browser:

- 672 Authentication Ticket Granted
- 673 Service Ticket Granted
- 674 Ticket Granted Renewed
- 675 Pre-authentication failed
- 676 Authentication Ticket Request Failed
- 677 Service Ticket Request Failed
- 678 Account Mapped for Logon
- 679 Account could not be mapped for logon
- 680 Account Used for Logon
- 681 The logon to account: <client name> by: <source> from workstation: <workstation> failed. The error code was: <error>
- 682 Session reconnected to winstation
- 683 Session disconnected from winstation

AD Site Structure

WINOSSPI-ADS_SiteChanges

Description

Monitors the Active Directory Site to ensure that IP subnets are not being added, changed, or deleted unnecessarily:

- Name Space

  ```
  Root\Directory\LDAP
  ```

- Event Class

  ```
  __InstanceOperationEvent
  ```

- WQL Filter

  ```
  TargetInstance ISA "ds_site"
  ```

Successful changes in the OU structure affect the size and replication of the Active Directory database.

This template may be deployed only to one node within the forest. The additional script must be executed for all sites within this domain on this node (or deployed to several nodes and execute additional scripts on these nodes).

WINOSSPI-ADS_SiteConnectivity

Description

Checks all domain controller links enterprise-wide with the dcdiag tool (located in Support Tools on the Windows 2000 CD) and sends a message to the active message browser if a connection is broken.

The dcdiag tool consists of a framework for running tests, and a series of tests to verify different functional areas of the Active Directory. The framework selects which domain controllers are tested, according to scope directives you give it (for example, enterprise, site, or single server). You can also select domain controllers holding a directory partition.

To ensure consistency of domain controllers among sites, use the Dcdiag tool (/test:intersite option) to do the following:

- Identify the Inter-site Topology Generator for each site.
- Identify bridgeheads for a site and generate a bridgehead status report to determine which ones are not functioning.
- In the case where bridgeheads are not functioning, locate additional backup bridgeheads. Report how long it will take for a failed bridgehead to reach "failover." Failover means that if a bridgehead server unexpectedly goes down, another delegated or preferred bridgehead server eventually takes the place of that bridgehead server.
- Identify which sites are not communicating with other sites in the network topology.

MS Active Directory Server -> ADS Diagnostic

AD Health Monitors -> Diagnostics

WINOSSPI-ADS_DNSServ_FwdAllWarnError

Description

Monitors the DNS Server log for entries that have a severity level of Warning or Error. Forwards these entries as messages to the active message browser.

WINOSSPI-ADS_FwdAllWarnErrorDS

Description

Forwards all event log entries with a severity level of Warning or Error.

WINOSSPI-ADS_FwdAllWarnErrorFRS

Description

Forwards all event log entries with a severity level of Warning or Error.

WINOSSPI-ADS_HMLSASSPageFaults

Description

Checks the PerfLib counter Process\Page Faults/sec\lsass for the number of times a thread requested access to a memory page that was not in memory and therefore had to be read from disk. If the number exceeds 5, the template

sends a warning message to the active message browser. If the number exceeds 10, the template sends an error message. If the value obtained from this counter consistently generates messages, physical memory is low.

WINOSSPI-ADS_HMLSASSPrivateBytes

Description

Checks the PerfLib counter Process\Private Bytes\lsass for the number of bytes allocated exclusively to the LSASS process (that is, bytes that cannot be shared with other processes). If the number exceeds 35,000,000 bytes, the template sends a warning message to the active message browser. If the number exceeds 40,000,000 bytes, the template sends an error message. If the number exceeds the upper threshold, there may be a memory leak or some other memory problems.

WINOSSPI-ADS_HMLSASSProcessorTime

Description

Checks the PerfLib counter Process\% Processor Time\lsass for the percentage of processor time the ADS LSASS process is consuming. If the value exceeds 60%, the template sends a warning message to the active message browser. If the value exceeds 70%, the template sends an error message. If the value exceeds the upper threshold, the server may be overloaded, need a hardware upgrade, or need further tuning to optimize performance.

WINOSSPI-ADS_HMLSASSWorkingSet

Description

Checks the PerfLib counter Process\Working Set\lsass for the number of memory pages recently touched by threads in the process. If the number exceeds 15,000,000 pages, the template sends a warning message to the active message browser. If the number exceeds 18,000,000 pages, the template sends an error message. If the number exceeds the upper threshold, there may be a memory leak or some other memory problems.

WINOSSPI-ADS_HMThreadsInUse

Description

Checks the PerfLib counter NTDS\DS Threads in Use for the number of threads in use by the directory service. (This number is different from the number of threads in use by the directory service process.) If the number exceeds 20, the template sends a warning message to the active message browser. If the number exceeds 25, the template sends an error message. These threads serve client API calls, and indicate whether additional processors should be used.

WINOSSPI-ADS_KDC

Description

Checks whether the Kerberos Key Distribution Center Service and its corresponding process lsass.exe are running. If they are not running, the template sends a warning message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the template acknowledges the message.

WINOSSPI-ADS_NetLogon

Description

Checks whether the Net Logon service and its corresponding process, lsass.exe, are running. If they are not running, the template sends a warning message to the active message browser. The operator can restart the service using an operator-initiated command. When the service is running again, the template acknowledges the message.

WINOSSPI-ADS_PolicyAgent

Description

Checks whether the PolicyAgent service and its corresponding process, lsass.exe, are running. If they are not running, the template sends a warning message to the active message browser.

WINOSSPI-ADS_SamSs

Description

Checks whether the Security Accounts Manager service and its corresponding process, lsass.exe, are running. If they are not running, the template sends a warning message to the active message browser. The

operator can restart the service using an operator-initiated command. When the service is running again, the template acknowledges the message.

AD Index and Query Monitors

WINOSSPI-ADS_IQLDAPActiveThreads

Description

Checks the PerfLib counter NTDS\LDAP Active Threads for the number of LDAP Active Threads. If the number exceeds 40, the template sends a warning message to the active message browser. If the number exceeds 50, the template sends an error message. If the number exceeds the upper threshold, the domain controller may be overloaded with LDAP queries.

WINOSSPI-ADS_IQLDAPBindTime

Description

Checks the PerfLib counter NTDS\LDAP Bind Time for the number of LDAP Client Sessions. If the number exceeds 100, the template sends a warning message to the active message browser. If the number exceeds 200, the template sends an error message. If the LDAP Bind Time exceeds the upper threshold, the domain controller may be overloaded with LDAP queries.

WINOSSPI-ADS_IQLDAPClientSessions

Description

Checks the PerfLib counter NTDS\LDAP Client Sessions for the number of LDAP Client Sessions. If the number exceeds 4,000 sessions, the template sends a warning message to the active message browser. If the number exceeds 4,500 sessions, the template sends an error message. If the number exceeds the upper threshold, the domain controller may be overloaded with LDAP queries.

WINOSSPI-ADS_IQKerberos Authentication

Description

Checks the PerfLib counter Kerberos Authentications for the number of authenticating clients per second. If the number exceeds 250, the template sends a warning message to the active message browser. If the number

exceeds 100, the template sends an error message. If the number exceeds the upper threshold, the domain controller may be overloaded with logon authentication traffic.

WINOSSPI-ADS_IQNTLM Authentication

Description

Checks the PerfLib counter NTDS Authentications for the number of authenticating clients per second. If the number exceeds 250, the template sends a warning message to the active message browser. If the number exceeds 100, the template sends an error message. If the number exceeds the upper threshold, the domain controller may be overloaded with logon authentication traffic.

AD Security –> Diagnostic

WINOSSPI-ADS_SecAdminGroupChange

Description

Checks, approximately every 15 minutes, the following security groups for changes:

- Domain Admins
- Enterprise Admins

If there have been any changes, the template sends a message to the active message browser with a severity level of Information.

WINOSSPI-ADS_SecErrorsLogon

Description

Checks, approximately every five minutes, the PerfMon counter Server\Errors Logon for the number of denied logon attempts to the server. If the number is between 2 and 4, the template sends a warning message to the active message browser. If the number is greater than 4, the template sends an error message. This counter warns of attempts to log on with a password-guessing program.

WINOSSPI-ADS_SecDirectoryServiceAccess

Description

Monitors the Security log for entries. Forwards any entries as messages to the active message browser.

WINOSSPI-ADS_SecNonTransMembEval

Description

Checks, approximately every five minutes, the PerfMon counter Server\SAM Non-Transitive Membership Evaluation/sec for the number of SAM non-transitive membership evaluations per second. If the number exceeds 1,000 evaluations, the template sends a warning message to the active message browser. If the number exceeds 1,500 evaluations, the template sends an error message. If the higher threshold is exceeded, the domain may be overloaded.

WINOSSPI-ADS_SecSDPropagatorQueue

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\DS Security Descriptor Propagator Runtime Queue for the number of objects remaining to be examined while processing the current directory service security descriptor propagator event. If the number exceeds 10, the template sends a warning message to the active message browser. If the number exceeds 15, the template sends an error message. If the higher threshold is exceeded, the domain controller may be overloaded.

WINOSSPI-ADS_SecTransMembEval

Description

Checks, approximately every five minutes, the PerfMon counter NTDS\SAM Transitive Membership Evaluations for the number of SAM transitive membership evaluations per second. If the number exceeds 1,000 evaluations, the template ends a warning message to the active message browser. If the number exceeds 1,500 evaluations, the template sends an error message. If the higher threshold is exceeded, an explicit domain trust may be necessary to reduce SAM transitive membership evaluations.

MS Terminal Server

Terminal Server MS Windows 2000 –>Additional

WINOSSPI-WTS_FwdAllSysinformation

Description

Forward all system log entries with a source of Termservice or Termservlicensing severity level of information.

WINOSSPI-WTS_TerminalServiceSession_PctProcessorTime-Win2k

Description

Checks the % Processor Time counter of the Terminal Service Session object.

WINOSSPI-WTS_TerminalServiceSession_TotalErrors-Win2k

Description

Checks the Total Errors counter of the Terminal Service Session object.

WINOSSPI-WTS_TerminalServiceSession_TotalFrames-Win2k

Description

Checks the Total Frames counter of the Terminal Service Session object.

WINOSSPI-WTS_TerminalServiceSession_ActiveSessions-Win2k

Description

Checks the Active Sessions counter of the Terminal Services object.

Terminal Server MS Windows 2000 –> Diagnostic

WINOSSPI-WTS_FwdAllSysWarnError

Description

Forwards all system log entries with a source of Term service or Term Serv Licensing and a severity level of warning or error.

WINOSSPI-WTS_TermServLicensing Service

Description

Checks the 'TermServLicensing' Service.

WINOSSPI-WTS_Termservice

Checks the 'TermService' Service.

MS Terminal Server –> Terminal Server Windows NT -> Additional

WINOSSPI-WTS_FwdAllSysinformation

Description

Forward all system log entries with a source of Termservice or Termservlicensing severity level of information.

WINOSSPI-WTS_System_PctProcessorTime-NT4

Description

Checks the % Processor Time counter of the System object.

WINOSSPI-WTS_User_PctProcessorTime-NT4

Description

Checks the % Processor Time counter of the User object.

WINOSSPI-WTS_System_TotalFrames-NT4

Description

Checks the Total Frames counter of the System object.

WINOSSPI-WTS_System_TotalErrors-NT4

Description

Checks the Total Errors counter of the System object.

Terminal Server Windows NT -> Diagnostic

WINOSSPI-WTS_FwdAllSysWarnError

Description

Forwards all system log entries with a source of Term service or Term Serv Licensing and a severity level of warning or error.

WINOSSPI-WTS_TermServLicensing Service

Description

Checks the ‘TermServLicensing’ Service.

WINOSSPI-WTS_Termservice

Description

Checks the ‘Term Service’ Service.

Network Infrastructure

DHCP

DHCP–> DHCP Client –> Diagnostic

WINOSSP-DHCPCl_DHCPClient

Description

Checks the DHCP Client Service.

DHCP–> DHCP Server –> Diagnostic

WINOSSP-DHCPSvr_MSDhcp Server

Description

Checks the Microsoft DHCP Server Service

Relay Agent –> Diagnostic

WINOSSPI-DHCP Relay_DHCP Relay Agent

Description

Checks the DHCP Relay Agent Service

DNS

DNS–> DNS Server –> Diagnostic

WINOSSPI-DNS_MSDnsServer

Description

Checks the Microsoft DNS Server Service.

RAS

RAS -> Additional

WINOSSPI-RAS_RASConnectionMgr

Description

Checks the Remote Access Connection Manager Service.

WINOSSPI-RAS_RASServer

Checks the Remote Access Server Service.

RAS –> Diagnostic

Description

WINOSSPI-RAS_RASAutodialManager

Checks the Remote Access Autodial Manager Service.

WINS

WINS –> WINS Server –> Diagnostic

WINOSSPI-WINS_WinInternetNameSvc

Description

Checks the Windows Internet Name Service.

Operating System

MS Window 2000 –> Diagnostic

WINOSSPI-SysMon_AvgDiskSecTransfer

Description

Checks the Average Disk sec/Transfer counter of the Logical Disk object.

WINOSSPI-SysMon_CacheFaultSec

Description

Checks the Cache faults/sec counter of the Memory object.

WINOSSPI-SysMon_Cache_DataMapSec

Description

Checks the Data Maps/Sec counter of the Cache Object

WINOSSPI-SysMon_Cache_MDLReadsSec

Description

Checks the MDL Reads/Sec counter of the Cache Object.

WINOSSPI-Cache_PinReadHitsPct

Description

Checks the Pin Read Hits % counter of the cache object.

WINOSSPI-Cache_ReadAheadsSec

Description

Checks the Read Aheads/sec counter of the cache object.

WINOSSPI-Net_Bytes TotalSec

Description

Checks the Bytes Total/sec counter of the Server object.

WINOSSPI-Net_CurrentCommands

Description

Checks the Current Commands counter of the Redirector object

WINOSSPI-Net_NetworkErrorsSec

Description

Checks the Network Errors/sec counter of the Redirector object.

WINOSSPI-Net_ReadsDeniedSec

Description

Checks the Reads Denied/sec counter of the Redirector object.

WINOSSPI-SysMon_Memory_PageInputSec

Description

Checks the Pages Input/sec counter of the Memory Object.

WINOSSPI-SysMon_Memory_PagesSec

Description

Checks the pages/sec counter of the Memory Object.

WINOSSPI-SysMon_PagefaultsSec

Description

Checks the Page Faults/sec counter of the Memory Object.

WINOSSPI-SysMon_PageFileSec

Description

Checks the % Usage counter of the Paging File object.

WINOSSPI-SysMon_PageReadsSec

Description

Checks the Page Reads/sec counter of the Memory object.

WINOSSPI-SysMon_PhysicalMemCheck

Description

Checks the Available Bytes counter of the Memory object.

WINOSSPI-SysMon_Redirector_WritesDeniedSec

Description

Checks the Writes Denied/sec counter of the Redirector object.

WINOSSPI-SysMon_Server_PoolNonpagedFailures

Description

Checks the Pool Nonpaged Failures counter of the Server object.

WINOSSPI-SysMon_Server_PoolPagedFailures

Description

Checks the Pool Paged Failures counter of the Server object.

WINOSSPI-SysMon_WorkitemShortages

Description

Checks the Work Item Storages counter of the Server object.

WINOSSPI-SysMon_ProcessorQueueLength

Description

Checks the Processor Queue Length counter of the System object.

WINOSSPI-SysMon_VirtualMemCheck

Description

Checks the % Committed Bytes in Use counter of the Memory object.

WINOSSPI-SysMon_CpuSpikeCheck-Win2k_PrivilegedTime

Description

Checks CPU concerning counter of object ‘Processor’ for Privileged Time Usage.

WINOSSPI-SysMon_CpuSpikeCheck-Win2k_ProcessorTime

Description

Checks CPU concerning counter of object ‘Processor’ for Processor Time Usage.

WINOSSPI-SysMon_CpuSpikeCheck-Win2k_UserTime

Description

Checks CPU concerning counter of object ‘Processor’ for User Time Usage.

WINOSSPI-SysMon_DiskBusyCheck_AvgDiskQueue

Description

Checks Average Disk Queue counter of object ‘Logical Disk’.

WINOSSPI-SysMon_DiskBusyCheck_DiskTime

Description

Checks Disk Time counter of object ‘Logical Disk’.

WINOSSPI-SysMon_DiskFullCheck_FreeMB

Description

Checks Free Megabytes counter of object ‘Logical Disk’

WINOSSPI-SysMon_DiskFullCheck_PercentageFreeSpace

Description

Checks ‘% Free Space’ counter of object ‘Logical Disk’

WINOSSPI_EventLog Service

Description

Checks the Windows Event Log Service.

WINOSSPI_PlugnPlay Service

Description

Checks the plug and play service.

WINOSSPI_RPCService

Description

Checks the Remote Procedure Call (RPC) Service

WINOSSPI_Spooler Service

Description

Checks the Spooler service.

MS Windows NT 4.0 –> Diagnostic

WINOSSPI-SysMon_AvgDiskSecTransfer

Description

Checks the Average Disk sec/Transfer counter of the Logical Disk object.

WINOSSPI-SysMon_CacheFaultSec

Description

Checks the Cache Faults/Sec counter of the Memory Object.

WINOSSPI-SysMon_Cache_DataMapSec

Description

Checks the Data Maps/sec counter of the cache object

WINOSSPI-SysMon_Cache_MDLReadsSec

Description

Checks the MDL Reads/sec counter of the Cache object

WINOSSPI-Cache_PinReadHitsPct

Description

Checks the Pin Read Hits% counter of the Cache object.

WINOSSPI-Cache_ReadAheadsSec

Description

Checks the Read Aheads/sec counter of the Cache object.

WINOSSPI-Net_Bytes TotalSec

Description

Checks the Bytes Total/sec counter of the Server object.

WINOSSPI-Net_CurrentCommands

Description

Checks the Current Commands counter of the Redirector object.

WINOSSPI-Net_NetworkErrorsSec

Description

Checks the Network Errors/sec counter of the Redirector object.

WINOSSPI-Net_ReadsDeniedSec

Description

Checks the Reads Denied/sec counter of the Redirector object.

WINOSSPI-SysMon_Memory_PageInputSec

Description

Checks the Pages Input/sec counter of the Memory Object.

WINOSSPI-SysMon_Memory_PagesSec

Description

Checks the Pages/sec counter of the Memory Object.

WINOSSPI-SysMon_PagefaultsSec

Description

Checks the Page Faults/sec counter of the Memory Object.

WINOSSPI-SysMon_PageFileSec

Description

Checks the % Usage counter of the Paging File object.

WINOSSPI-SysMon_PageReadsSec

Description

Checks the Page Reads/sec counter of the Memory object.

WINOSSPI-SysMon_PhysicalMemCheck

Description

Checks the AvailableBytes counter of the Memory object.

WINOSSPI-SysMon_Redirector_WritesDeniedSec

Description

Checks the Writes Denied/sec counter of the Redirector object.

WINOSSPI-SysMon_Server_PoolNonpagedFailures

Description

Checks the Pool Non paged Failures counter of the Server object.

WINOSSPI-SysMon_Server_PoolPagedFailures

Description

Checks the Pool Paged Failures counter of the Server object.

WINOSSPI-SysMon_WorkitemShortages

Description

Checks the Work Item Storages counter of the Server object.

WINOSSPI-SysMon_ProcessorQueueLength

Description

Checks the Processor Queue Length counter of the System object.

WINOSSPI-SysMon_VirtualMemCheck

Description

Checks the % Committed Bytes in Use counter of the Memory object.

WINOSSPI-SysMon_CpuSpikeCheck-WinNT_PrivilegedTime

Description

Checks CPU concerning counter of object ‘Processor’ for Privileged Time Usage.

WINOSSPI-SysMon_CpuSpikeCheck-WinNT_ProcessorTime

Description

Checks CPU concerning counter of object ‘Processor’ for Processor Time Usage.

WINOSSPI-SysMon_CpuSpikeCheck-WinNT_UserTime

Description

Checks CPU concerning counter of object ‘Processor’ for User Time Usage.

WINOSSPI-SysMon_DiskBusyCheck_AvgDiskQueue

Description

Checks Average Disk Queue counter of object ‘Logical Disk’.

WINOSSPI-SysMon_DiskBusyCheck_DiskTime

Description

Checks Disk Time counter of object ‘Logical Disk’.

WINOSSPI-SysMon_DiskFullCheck_FreeMB

Description

Checks Free Megabytes counter of object ‘Logical Disk’

WINOSSPI-SysMon_DiskFullCheck_PercentageFreeSpace

Description

Checks ‘% Free Space’ counter of object ‘Logical Disk’

WINOSSPI_EventLog Service

Description

Checks the Windows Event Log Service.

WINOSSPI_PlugnPlay Service

Description

Checks the plug and play service.

WINOSSPI_RPCService

Description

Checks the Remote Procedure Call (RPC) Service

WINOSSPI_Spooler Service

Description

Checks the Spooler service.

Web Servers

MS IIS 4.0 –> Additional

WINOSSPI-IIS40_FtpServerFwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from MSFTPSVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_FwdAllApplicationInformation

Description

Monitors the application log for entries with the severity Information from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_FwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_IndexServerFwdAllApplicationInformation

Description

Monitors the application log for entries with the severity Information from the Content Index Service (CISVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_NntpServerFwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from the NNTP Service (NNTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_SmtpServerFwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from the SMTP Service (SMTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_InernetInformationServicesGbl_CachedFileHandl

Description

Checks the Cached File Handles counter of the Internet Information Services Global object.

WINOSSPI-IIS40_InernetInformationServicesGbl_CachedHitsPct

Description

Checks the Cache Hits % counter of the Internet Information Services Global object.

WINOSSPI-IIS40_InernetInformationServicesGbl_DirectoryList

Description

Checks the Directory Listings counter of the Internet Information Services Global object.

WINOSSPI-IIS40_InernetInformationServicesGbl_FileCacheHitsPc

Description

Checks the File Cache Hits % counter of the Internet Information Services Global object.

WINOSSPI-IIS40_InernetInformationServicesGbl_Objects

Description

Checks the Objects counter of the Internet Information Services Global object.

WINOSSPI-IIS40_Process_PageFaultsSec_inetinfo

Description

Checks `inetinfo` instance of the Page Faults/sec counter of the Process object.

WINOSSPI-IIS40_Process_PctProcessorTime_inetinfo

Description

Checks the `inet`info instance of the % Processor Time counter of the Process object.

WINOSSPI-IIS40_Process_PrivateBytes_inetinfo

Description

Checks the `inet`info instance of the Private Bytes counter of the Process object.

WINOSSPI-IIS40_Process_ThreadCount_inetinfo

Description

Checks the `inet`info instance of the Thread Count counter of the Process object

WINOSSPI-IIS40_Process_WorkingSet_inetinfo

Description

Checks the `inet`info instance of the Working Set counter of the Process object.

WINOSSPI-IIS40_Server_BytesTransmittedSec

Description

Checks the Bytes Transmitted/sec counter of the Server object.

WINOSSPI-IIS40_WebServices_CurrentAnonymousUsers

Description

Checks the Current Anonymous Users counter of the Web Services object.

MS IIS 4.0 –> Diagnostic

WINOSSPI-IIS40_FtpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from MSFTPSVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_FwdAllApplicationWarnError

Description

Monitors the application log for entries with the severity Warning or Error from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_FwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS40_IndexServerFwdAllApplicationWarnError

Description

Monitors the application log for entries with the severity Warning or Error from the Content Index Service (CISVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_NntpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from the NNTP Service (NNTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_SmtpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from the SMTP Service (SMTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS40_SrvProcMon_CISVC

Description

Checks every five minutes whether the service CISVC and the corresponding process cisvc.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS40_SrvProcMon_IISADMIN

Description

Checks every five minutes whether the service IISADMIN and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS40_SrvProcMon_MSFTPSVC

Description

Checks every five minutes whether the service MSFTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS40_SrvProcMon_NNTPSVC

Description

Checks every five minutes whether the service NNTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS40_SrvProcMon_SMTPSVC

Description

Checks every five minutes whether the service SMTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS40_SrvProcMon_W3SVC

Description

Checks every five minutes whether the service W3SVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the service's status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

IIS 4.0 Active Server Pages

ASP Error

MS ISS4.0 - Diagnostic

WINOSSPI-IIS40_ASPErrorSec

Description

Checks every five minutes for the number of errors per second from Active Server Pages. Sends a critical message to the active message browser if the value is two or more, three times in a row. Sends a warning message if the value is one or more, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPScriptErrors

Description

Checks every five minutes for the number of ASP requests that failed because of a runtime error. Sends a critical message to the active message browser if the value is 40 or more, 16 times in a row. Sends a warning message if the value is between 15 and 40, 16 times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

WINOSSPI-IIS40_ASPPreprocessorErrors

Description

Checks every five minutes for the number of ASP requests that failed because of a preprocessor error. Sends a critical message to the active message browser if the value is 40 or more, three times in a row. Sends a warning message if the value is between 15 and 40, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPScriptCompilerErrors

Description

Checks every five minutes for the number of ASP requests that failed because of an error during compilation. Sends a critical message to the active message browser if the value is 40 or more, three times in a row. Sends a warning message if the value is between 15 and 40, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

ASP Memory Allocation

WINOSSPI-IIS40_ActiveServerPages_MemoryAllocated

Description

Checks the Memory Allocated counter of the Active Server Pages object.

WINOSSPI-IIS40_ASPScriptEnginesCached

Description

Checks every five minutes for the number of ASP script engines in the cache. Sends a critical message to the active message browser if the value is 40 or more, four times in a row. Sends a warning message if the value is between 15 and 40, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Requests

WINOSSPI-IIS40_ASPRequestBytesInTotal

Description

Checks every five minutes for the total size of all ASP requests, in bytes. Sends a critical message to the active message browser if the value is 20 million or more, four times in a row. Sends a warning message if the value is between 5000 and 20 million, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestBytesOutTotal

Description

Checks every five minutes for the total size in bytes of ASP responses sent, excluding the HTTP response headers. Sends a critical message to the active

message browser if the value is 20 million or more, four times in a row. Sends a warning message if the value is between 5000 and 20 million, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestExecutionTime

Description

Checks every five minutes for the time in milliseconds that it took the last ASP request to execute. Sends a critical message to the active message browser if the value is 15000 or more, four times in a row. Sends a warning message if the value is between 5000 and 15000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestWaitTime

Description

Checks every five minutes for the time in milliseconds that the latest ASP request waited in the queue. Sends a critical message to the active message browser if the value is 15000 or more, three times in a row. Sends a warning message if the value is between 5000 and 15000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsDisconnected

Description

Checks every five minutes for the number of ASP requests that were disconnected because of a communication failure. Sends a critical message to the active message browser if the value is 100 or more, four times in a row. Sends a warning message if the value is between 50 and 100, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsExecuting

Description

Checks every five minutes for the number of currently executing ASP requests. Sends a critical message to the active message browser if the value

is more than 100, twice in a row. Sends a warning message if the value is between 50 and 100, twice in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsFailedTotal

Description

Checks every five minutes for the number of ASP requests that failed because of rejections, insufficient access rights, or errors. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsNotAuthorized

Description

Checks every five minutes for the number of ASP requests that failed because of insufficient access rights. Sends a critical message to the active message browser if the value is 1000 or more, three times in a row. Sends a warning message if the value is between 500 and 1000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsNotFound

Description

Checks every five minutes for the number of ASP requests for files that could not be found. Sends a critical message to the active message browser if the value is 200 or more, three times in a row. Sends a warning message if the value is between 100 and 200, three times in row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsQueued

Description

Checks every five minutes for the number of ASP requests that are waiting in the queue. Sends a critical message to the active message browser if the value is 200 or more, three times in a row. Sends a warning message if the

value is between 100 and 200, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsRejected

Description

Checks every five minutes for the number of ASP requests that were rejected due to insufficient resources. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

WINOSSPI-IIS40_ASPRequestsSec

Description

Checks every five minutes for the number of ASP requests carried out per second. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsSucceeded

Description

Checks every five minutes for the number of ASP requests carried out successfully. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsTimedOut

Description

Checks every five minutes for the number of ASP requests that timed out. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is

between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPRequestsTotal

Description

Checks every five minutes for the total number of ASP requests that occurred since the service was last started. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Sessions

WINOSSPI-IIS40_AspSessionDuration

Description

Checks every five minutes how long the most recent ASP session lasted in milliseconds. Sends a critical message to the active message browser if the value is more than 100000, four times in a row. Sends a warning message if the value is between 50000 and 100000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_AspSessionsCurrent

Description

Checks every five minutes for the number of ASP sessions currently being serviced. Sends a critical message to the active message browser if the value is 250 or more, three times in a row. Sends a warning message if the value is between 200 and 250, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_AspSessionsTimedOut

Description

Checks every five minutes for the number of ASP sessions that timed out. Sends a critical message to the active message browser if the value is 100 or more, three times in a row. Sends a warning message if the value is between

50 and 100, three times in a row. When the value falls below the threshold again, sends the message to the active message browser.

WINOSSPI-IIS40_AspSessionsTotal

Description

Checks every five minutes for the total number of ASP sessions since the service was last started. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Templates

WINOSSPI-IIS40_ASPTemplateCacheHitRate

Description

Checks every five minutes for the percentage of ASP requests that could be met from the template cache. Sends a critical message to the active message browser if this is 80% of requests or less. Sends a warning message if this is between 80% and 90% of requests. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASPTemplateNotifications

Description

Checks every five minutes for the number of templates in the cache that need to be updated. Sends a critical message to the active message browser if the value is 1000 or more, three times in a row. Sends a warning message if the value is between 500 and 1000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Transactions

WINOSSPI-IIS40_ASP TransactionsAborted

Description

Checks every five minutes for the number of aborted ASP transactions. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASP TransactionsCommitted

Description

Checks every five minutes for the number of committed ASP transactions. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASP TransactionsPending

Description

Checks every five minutes for the number of ASP transactions currently in progress. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASP TransactionsSec

Description

Checks every five minutes for the number of ASP transactions started per second. Sends a critical message to the active message browser if the value is more than 100, four times in a row. Sends a warning message if the value is between 50 and 100, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_ASP TransactionsTotal

Description

Checks every five minutes for the total number of ASP transactions that occurred since the service was last started. Sends a critical message to the active message browser if the value is 10000 or more, four times in a row. Sends a warning message if the value is between 5000 and 10000, four times

in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 4.0 FTP Server Health

WINOSSPI-IIS40_FtpBytesTotalSec

Description

Checks every five minutes for the number of bytes per second sent and received by the FTP service. Sends a critical message to the active message browser if the value is 64000 or more, four times in a row. Sends a warning message if the value is between 48000 and 64000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_FtpCurrentAnonymousUsers

Description

Checks every five minutes for the number of anonymous connections that are open to the FTP service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_FtpCurrentConnections

Description

Checks every five minutes for the total number of connections that are open to the FTP service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_FtpCurrentNonAnonymousUsers

Description

Checks every five minutes for the number of non-anonymous connections that are open to the FTP service. Sends a critical message to the active

message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_FtpTotalFilesTransfered

Description

Checks every five minutes for the total number of files that the FTP service transferred since it was last started. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a warning message if the value is between 480 and 640, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 4.0 HTTP Server Health

WINOSSPI-IIS40_HTTPCurrentBlockedAsyncIO

Description

Checks every five minutes for the number of requests that are blocked temporarily because of bandwidth throttling settings. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row.

WINOSSPI-IIS40_HTTPCurrentConnections

Description

Checks every five minutes for the total number of connections that are open to the web service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPFilesTotalSec

Description

Checks every five minutes for the number of files per second that the web service is sending and receiving. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a warning message if the value is between 600 and 640, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPHealthPerformanceMonitor

Description

Checks every five minutes for the total number of bytes sent and received per second by the web service. Sends a critical message to the active message browser if the value is 64000 or more, four times in a row. Sends a warning message if the value is between 48000 and 64000, four times in a row.When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPMesuredIOBandwidth

Description

Checks every five minutes for the percentage bandwidth used by asynchronous I/O (averaged over one minute). Sends a critical message to the active message browser if the value is 90 or more, four times in a row. Sends a warning message if the value is between 80 and 90, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPNotFoundErrors

Description

Checks every five minutes for the number of errors per second caused by requests to the web service for files that could not be found. Sends a critical message to the active message browser if the value is 250 or more, four times in a row. Sends a warning message if the value is between 200 and 250, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPRequestsSec

Description

Checks every five minutes for the number of requests for files that the web service receives per second. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a warning message if the value is 480 or more, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 4.0 Index Server Health

WINOSSPI-IIS40_IndexServerRequestsRejected

Description

Checks every five minutes for the total number of query requests that the index server rejected. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 4.0 NNTP Server Health

WINOSSPI-IIS40_NntpArticleMapEntriesSec

Description

Checks every five minutes for the number of entries per second inserted into the NNTP servers article mapping table. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_NntpArticlesDeletedSec

Description

Checks every five minutes for the number of articles deleted from the NNTP server per second since it was started. Sends a critical message to the active message browser if the value is 20 or more, three times in a row. Sends a warning message if the value is between 10 and 20, three times in a row.

When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_NntpArticlesPostedSec

Description

Checks every five minutes for the number of articles posted to the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_NntpArticlesReceivedSec

Description

Checks every five minutes for the number of articles received by the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_NntpArticleSentSec

Description

Checks every five minutes for the number of articles sent by the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_NntpServerCurrentConnections

Description

Checks every five minutes for the number of connections that the NNTP server currently has open. Sends a critical message to the active message browser if the value is 600 or more, three times in a row. Sends a warning message if the value is between 500 and 600, three times in a row. When the

value falls below the threshold again, sends the message to the acknowledged message browser.

IIS4.0 SMTP Server Health

WINOSSPI-IIS40_SmtpMessagesReceivedSec

Description

Checks every five minutes for the number of mail messages per second that the SMPT server is receiving. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_SmtpMessagesSentSec

Description

Checks every five minutes for the number of mail messages per second that the SMPT server is sending. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_SmtpNumberOfQueueFilesOpen

Description

Checks every five minutes for the number of open queue files. Sends a critical message to the active message browser if the value is 75 or more, three times in a row. Sends a warning message if the value is between 50 and 75, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

MS IIS 5.0 - Additional

WINOSSPI-IIS50_FtpServerFwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from MSFTPSVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_FwdAllApplicationInformation

Description

Monitors the application log for entries with the severity Information from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_FwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_IndexServerFwdAllApplicationInformation

Description

Monitors the system log for entries with the severity Information from the Content Index Service (CISVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS50_NntpServerFwdAllSystemInformation

Description

Monitors the system log for entries with Information severity from the NNTP Service (NNTPSVC) and forwards them as messages to the active message browser.

WINOSSPI-IIS50_SmtpServerFwdAllSystemInformation

Description

Monitors the system log for entries with the severity Information from the SMTP Service (SMTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS50_InternetInformationServicesGbl_FileCacheHitsPc

Description

Checks the File Cache Hits % counter of the Internet Information Services Global object.

WINOSSPI-IIS50_Process_PageFaultSec_Inetinfo

Description

Checks the `inetinfo` instance of the Page Fault/sec counter of the Process object.

WINOSSPI-IIS50_Process_PctProcessorTime_Inetinfo

Description

Checks the `inetinfo` instance of the % Processor Time counter of the Process object.

WINOSSPI-IIS50_Process_PrivateBytes_Inetinfo

Description

Checks the `inetinfo` instance of the Private Bytes counter of the Process object.

WINOSSPI-IIS50_Process_ThreadCount_Inetinfo

Description

Checks the `inetinfo` instance of the Thread Count counter of the Process object.

WINOSSPI-IIS50_Process_WorkingSet_Inetinfo

Description

Checks the `inetinfo` instance of the Working Set counter of the Process object.

WINOSSPI-IIS50_Process_BytesTransmittedSec

Description

Checks the Bytes Transmitted/sec counter of the Server object.

WINOSSPI-IIS50_WorkingSet_AvilableBytes

Description

Checks counter ‘Working set’ of object ‘Process’ along with ‘Available bytes’ counter of the ‘Memory’ Object

IIS 5.0 Active Server Pages

ASP Error

MS ISS 5.0 –> Diagnostic

WINOSSPI-IIS50_AspErrorSec

Description

Checks every five minutes for the number of errors per second from Active Server Pages. Sends a critical message to the active message browser if the value is two or more, three times in a row. Sends a warning message if the value is one or more, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_AspScriptErrors

Description

Checks every five minutes for the number of ASP requests that failed because of a runtime error. Sends a critical message to the active message browser if the value is 40 or more, 16 times in a row. Sends a warning message if the value is between 15 and 40, 16 times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_AspPreProcessorErrors

Description

Checks every five minutes for the number of ASP requests that failed because of a preprocessor error. Sends a critical message to the active message browser if the value is 40 or more, three times in a row. Sends a warning message if the value is between 15 and 40, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_AspScriptCompilerErrors

Description

Checks every five minutes for the number of ASP requests that failed because of an error during compilation. Sends a critical message to the active message browser if the value is 40 or more, three times in a row. Sends a warning message if the value is between 15 and 40, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Memory Allocation

WINOSSPI-IIS50_ASPScriptEnginesCached

Description

Checks every five minutes for the number of ASP script engines in the cache. Sends a critical message to the active message browser if the value is 40 or more, four times in a row. Sends a warning message if the value is between 15 and 40, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Requests

WINOSSPI-IIS50_ASPRequestBytesInTotal

Description

Checks every five minutes for the total size of all ASP requests, in bytes. Sends a critical message to the active message browser if the value is 20 million or more, four times in a row. Sends a warning message if the value is between 5000 and 20 million, four times in a

row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestBytesOutTotal

Description

Checks every five minutes for the total size in bytes of ASP responses sent, excluding the HTTP response headers. Sends a critical message to the active message browser if the value is 20 million or more, four times in a row. Sends a warning message if the value is between 5000 and 20 million, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

WINOSSPI-IIS50_ASPRequestExecutionTime

Description

Checks every five minutes for the time in milliseconds that it took the last ASP request to execute. Sends a critical message to the active message browser if the value is 15000 or more, four times in a row. Sends a warning message if the value is between 5000 and 15000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestWaitTime

Description

Checks every five minutes for the time in milliseconds that the latest ASP request waited in the queue. Sends a critical message to the active message browser if the value is 15000 or more, three times in a row. Sends a warning message if the value is between 5000 and 15000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsDisconnected

Description

Checks every five minutes for the number of ASP requests that were disconnected because of a communication failure. Sends a critical message to the active message browser if the value is 100 or more, four times in a row. Sends a warning message if the value is between 50 and 100, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsExecuting

Description

Checks every five minutes for the number of currently executing ASP requests. Sends a critical message to the active message browser if the value is more than 100, twice in a row. Sends a warning message if the value is between 50 and 100, twice in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsFailedTotal

Description

Checks every five minutes for the number of ASP requests that failed because of rejections, insufficient access rights, or errors. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsNotAuthorized

Description

Checks every five minutes for the number of ASP requests that failed because of insufficient access rights. Sends a critical message to the active message browser if the value is 1000 or more, three times in a row. Sends a warning message if the value is between 500 and 1000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsNotFound

Description

Checks every five minutes for the number of ASP requests for files that could not be found. Sends a critical message to the active message browser if the value is 200 or more, three times in a row. Sends a warning message if the value is between 100 and 200, three times in row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsQueued

Description

Checks every five minutes for the number of ASP requests that are waiting in the queue. Sends a critical message to the active message browser if the value is 200 or more, three times in a row. Sends a warning message if the value is between 100 and 200, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsRejected

Description

Checks every five minutes for the number of ASP requests that were rejected due to insufficient resources. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsSec

Description

Checks every five minutes for the number of ASP requests carried out per second. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsSucceeded

Description

Checks every five minutes for the number of ASP requests carried out successfully. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsTimedOut

Description

Checks every five minutes for the number of ASP requests that timed out. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPRequestsTotal

Description

Checks every five minutes for the total number of ASP requests that occurred since the service was last started. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Sessions

WINOSSPI-IIS50_AspSessionDuration

Description

Checks every five minutes how long the most recent ASP session lasted in milliseconds. Sends a critical message to the active message browser if the value is more than 100000, four times in a row. Sends a warning message if the value is between 50000 and 100000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_AspSessionsCurrent

Description

Checks every five minutes for the number of ASP sessions currently being serviced. Sends a critical message to the active message browser if the value is 250 or more, three times in a row. Sends a warning message if the value is between 200 and 250, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_AspSessionsTimedOut

Description

Checks every five minutes for the number of ASP sessions that timed out. Sends a critical message to the active message browser if the value is 100 or more, three times in a row. Sends a warning message if the value is between 50 and 100, three times in a row. When the value falls below the threshold again, sends the message to the active message browser.

WINOSSPI-IIS50_AspSessionsTotal

Description

Checks every five minutes for the total number of ASP sessions since the service was last started. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Templates

WINOSSPI-IIS50_ASPTemplateCacheHitRate

Description

Checks every five minutes for the percentage of ASP requests that could be met from the template cache. Sends a critical message to the active message browser if this is 80% of requests or less. Sends a warning message if this is between 80% and 90% of requests. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASPTemplateNotifications

Description

Checks every five minutes for the number of templates in the cache that need to be updated. Sends a critical message to the active message browser if the value is 1000 or more, three times in a row. Sends a warning message if the value is between 500 and 1000, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

ASP Transactions

WINOSSPI-IIS50_ASP TransactionsAborted

Description

Checks every five minutes for the number of aborted ASP transactions. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASP TransactionsCommitted

Description

Checks every five minutes for the number of committed ASP transactions. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASP TransactionsPending

Description

Checks every five minutes for the number of ASP transactions currently in progress. Sends a critical message to the active message browser if the value is 1000 or more, four times in a row. Sends a warning message if the value is between 500 and 1000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASP TransactionsSec

Description

Checks every five minutes for the number of ASP transactions started per second. Sends a critical message to the active message browser if the value is more than 100, four times in a row. Sends a warning message if the value is between 50 and 100, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_ASP TransactionsTotal

Description

Checks every five minutes for the total number of ASP transactions that occurred since the service was last started. Sends a critical message to the active message browser if the value is 10000 or more, four times in a row. Sends a warning message if the value is between 5000 and 10000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

5.0 FTP Server Health

WINOSSPI-IIS50_FtpBytesTotalSec

Description

Checks every five minutes for the number of bytes per second sent and received by the FTP service. Sends a critical message to the active message browser if the value is 64000 or more, four times in a row. Sends a warning message if the value is between 48000 and 64000, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_FtpCurrentAnonymousUsers

Description

Checks every five minutes for the number of anonymous connections that are open to the FTP service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

WINOSSPI-IIS50_FtpCurrent Connections

Description

Checks every five minutes for the total number of connections that are open to the FTP service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_FtpCurrentNonAnonymousUsers

Description

Checks every five minutes for the number of non-anonymous connections that are open to the FTP service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row.

When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_FtpTotalFilesTransfered

Description

Checks every five minutes for the total number of files that the FTP service transferred since it was last started. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a warning message if the value is between 480 and 640, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 5.0 HTTP Server Health

WINOSSPI-IIS50_HTTPCurrentBlockedAsyncIO

Description

Checks every five minutes for the number of requests that are blocked temporarily because of bandwidth throttling settings. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row.

WINOSSPI-IIS50_HTTPCurrentConnections

Description

Checks every five minutes for the total number of connections that are open to the web service. Sends a critical message to the active message browser if the value is 64 or more, four times in a row. Sends a warning message if the value is between 48 and 64, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS40_HTTPTotalFilesSec

Description

Checks every five minutes for the number of files per second that the web service is sending and receiving. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a

warning message if the value is between 600 and 640, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_HTTPHealthPerformanceMonitor

Description

Checks every five minutes for the total number of bytes sent and received per second by the web service. Sends a critical message to the active message browser if the value is 64000 or more, four times in a row. Sends a warning message if the value is between 48000 and 64000, four times in a row.When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_HTTPMesuredIOBandwidth

Description

Checks every five minutes for the percentage bandwidth used by asynchronous I/O (averaged over one minute). Sends a critical message to the active message browser if the value is 90 or more, four times in a row. Sends a warning message if the value is between 80 and 90, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_HTTPNotFoundErrors

Description

Checks every five minutes for the number of errors per second caused by requests to the web service for files that could not be found. Sends a critical message to the active message browser if the value is 250 or more, four times in a row. Sends a warning message if the value is between 200 and 250, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_HTTPRequestsSec

Description

Checks every five minutes for the number of requests for files that the web service receives per second. Sends a critical message to the active message browser if the value is 640 or more, four times in a row. Sends a warning

message if the value is 480 or more, four times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 5.0 Index Server Health

WINOSSPI-IIS50_IndexServerRequestsRejected

Description

Checks every five minutes for the total number of query requests that the index server rejected. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 5.0 NNTP Server Health

WINOSSPI-IIS50_NntpArticleMapEntriesSec

Description

Checks every five minutes for the number of entries per second inserted into the NNTP servers article mapping table. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_NntpArticlesDeletedSec

Description

Checks every five minutes for the number of articles deleted from the NNTP server per second since it was started. Sends a critical message to the active message browser if the value is 20 or more, three times in a row. Sends a warning message if the value is between 10 and 20, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_NntpArticlesPostedSec

Description

Checks every five minutes for the number of articles posted to the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser

WINOSSPI-IIS50_NntpArticlesReceivedSec

Description

Checks every five minutes for the number of articles received by the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_NntpArticleSentSec

Description

Checks every five minutes for the number of articles sent by the NNTP server per second. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_NntpServerCurrentConnections

Description

Checks every five minutes for the number of connections that the NNTP server currently has open. Sends a critical message to the active message browser if the value is 600 or more, three times in a row. Sends a warning message if the value is between 500 and 600, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

IIS 5.0 SMTP Server Health

WINOSSPI-IIS50_SmtpMessagesReceivedSec

Description

Checks every five minutes for the number of mail messages per second that the SMPT server is receiving. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_SmtpMessagesSentSec

Description

Checks every five minutes for the number of mail messages per second that the SMPT server is sending. Sends a critical message to the active message browser if the value is 150 or more, three times in a row. Sends a warning message if the value is between 100 and 150, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

WINOSSPI-IIS50_SmtpNumberOfQueueFilesOpen

Description

Checks every five minutes for the number of open queue files. Sends a critical message to the active message browser if the value is 75 or more, three times in a row. Sends a warning message if the value is between 50 and 75, three times in a row. When the value falls below the threshold again, sends the message to the acknowledged message browser.

MS IIS 5.0 - Diagnostic

WINOSSPI-IIS50_FtpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from MSFTPSVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_FwdAllApplicationWarnError

Description

Monitors the application log for entries with the severity Warning or Error from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_FwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from IISADMIN or W3SVC. Forwards these as messages to the active message browser.

WINOSSPI-IIS50_IndexServerFwdAllApplicationWarnError

Description

Monitors the system log for entries with the severity Warning or Error from the Content Index Service (CISVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS50_NntpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with Warning or Error severity from the NNTP Service (NNTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS50_SmtpServerFwdAllSystemWarnError

Description

Monitors the system log for entries with the severity Warning or Error from the SMTP Service (SMTPSVC). Forwards these as messages to the active message browser.

WINOSSPI-IIS50_SrvProcMon_CISVC

Description

Checks every five minutes whether the service CISVC and the corresponding process cisvc.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The

operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS50_SrvProcMon_IISADMIN

Description

Checks every five minutes whether the service IISADMIN and the corresponding process *inetinfo.exe* are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS50_SrvProcMon_MSFTPSVC

Description

Checks every five minutes whether the service MSFTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again

WINOSSPI-IIS50_SrvProcMon_NNTPSVC

Description

Checks every five minutes whether the service NNTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS50_SrvProcMon_SMTPSVC

Description

Checks every five minutes whether the service SMTPSVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

WINOSSPI-IIS50_SrvProcMon_W3SVC

Description

Checks every five minutes whether the service W3SVC and the corresponding process inetinfo.exe are running. If not, sends a message to the active message browser, which gives details of the services status. The operator can restart the service using an operator-initiated command. Acknowledges the message when the service is running again.

MS Site Server 3.0

MS Site Server 3.0 –> Additional

WINOSSPI-SS30_AcmServerFwdAllApplicationInformation

Description

Forwards all Application log entries with a severity level of Information.

WINOSSPI-SS30_AuthServerFwdAllApplicationInformation

Description

Forwards all BROKSVC Authentication Server application log entries with a severity level of Information.

WINOSSPI-SS30_CommerceServerFwdAllApplicationInformation

Description

Forwards all Commerce Server application log entries with a severity level of Information.

WINOSSPI-SS30_CrsServerFwdAllApplicationInformation

Description

Forwards all 'CRS' Content Deployment Server application log entries with a severity level of Information.

WINOSSPI-SS30_GathererServerFwdAllApplicationInformation

Description

Forwards all 'GTHRSVC' Gatherer Server application log entries with a severity level of Information.

WINOSSPI-SS30_LdapServerFwdAllSystemInformation

Description

Forwards all 'LDAPSVC' LDAP Server application log entries with a severity level of Information.

WINOSSPI-SS30_ListBldrServerFwdAllApplicationInformation

Description

Forwards all 'TMLBSVC' List Builder Server application log entries with a severity level of Information.

WINOSSPI-SS30_MsgBldrServerFwdAllApplicationInformation

Description

Forwards all 'MSGBLDSVC' Message Builder Server application log entries with a severity level of Information.

WINOSSPI-SS30_SearchServerFwdAllApplicationInformation

Description

Forwards all Site Server application log entries with a severity level of Information.

WINOSSPI-SS30_SiteServerFwdAllApplicationInformation

Description

Forwards Application log entries with a severity level of Information.

MS Site Server 3.0 –> Diagnostic

WINOSSPI-SS30_AcmServerFwdAllApplicationWarnError

Description

Forwards all ACMSVC Active Channel Multicaster Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_AuthServerFwdAllApplicationWarnError

Description

Forwards all BROKSVC Authentication Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_CommerceServerFwdAllApplicationWarnError

Description

Forwards all Commerce Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_CrsServerFwdAllApplicationWarnError

Description

Forwards all CRS Content Deployment Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_GathererServerFwdAllApplicationWarnError

Description

Forwards all GTHRSVC Gatherer Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_LdapServerFwdAllSystemWarnError

Description

Forwards all LDAPSVC LDAP Server system event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_ListBldrServerFwdAllApplicationWarnError

Description

Forwards all `tmlbsvc` List Builder Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_MsgBldrServerFwdAllApplicationWarnError

Description

Forwards all `msgbldsvc` Message Builder Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_SearchServerFwdAllApplicationWarnError

Description

Forwards all `SSSearch` Search Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_SiteServerFwdAllApplicationWarnError

Description

Forwards all Site Server application event log entries with a severity level of Warning or Error.

WINOSSPI-SS30_AcmSvcProcMon

Description

Checks the ACMSVC Active Channel Multicaster service and its corresponding process.

WINOSSPI-SS30_AuthSrvProcMon

Description

Checks the BROKSVC Authentication service and its corresponding process.

WINOSSPI-SS30_CrsSrvProcMon

Description

Checks the CRS Content Deployment service and its corresponding process.

WINOSSPI-SS30_GathererSrvProcMon

Description

Checks the GTHRSVC Gatherer service and its corresponding process.

WINOSSPI-SS30_LdapSrvProcMon

Description

Checks the LDAPSVC LDAP service and its corresponding process.

WINOSSPI-SS30_ListBldrSrvProcMon

Description

Checks the TMLBSVC List Builder service and its corresponding process.

WINOSSPI-SS30_MsgBldrSrvProcMon

Description

Checks the MSGBLDSVC Message Builder service and its corresponding process.

WINOSSPI-SS30_SearchSrvProcMon

Description

Checks the `SSSearch` service and its corresponding process.

WINOSSPI-SS30_WebServiceGetRequestSec

Description

Checks the Get Requests/sec counter of the Web Service object.

5 Service Discovery

This chapter explains the discovery process, prerequisites and the discovery file locations.

WinOS SPI Discovery

The WinOS SPI discovery process is initiated by an OVO application which is installed by WinOS SPI and runs on the OVO management server. The service graph generated by the WinOS SPI Discovery is a snapshot of the services on the managed nodes at the time at which the application is run.

Mechanism for Gathering Service Information

The WinOS SPI uses a simple mechanism to gather the service information as follows:

- a discovery *server* script (`winosspi_discserv.sh`) on the OVO management server uses the list of managed nodes as parameters to trigger a discovery *client* on each of the OVO managed nodes listed.
- discovery *`clients`* on the various OVO managed nodes use discovery modules that are deployed to the WinOS SPI managed nodes.

The Discovery Modules

The discovery modules used by the WinOS SPI reside together with the other SPI components on the OVO managed node. Once started by the discovery server, the discovery client locates and reads the `Module Registry` (`winosspi_discreg.txt`) on the managed node in order to find out which OS services have to be discovered and which modules are responsible for each service.

The information that is discovered by the discovery modules is written to service-configuration files in a format (`XML`) that can be used by the VP Service Navigator to display the services as a tree in the VP Service Navigator GUI.

The discovery log messages are stored in the file `winosspi_discovery.log` on the managed node. If tracing is enabled, the trace messages are present in the `winosspi.trace` file.

Discovery client running on the managed node performs these actions:

1. Executes the discovery modules specified in the module registry.

2. Generates a service configuration file.

The management server validates and uploads the service configuration to the service tree, which can be viewed using VP Service Navigator GUI.

Prerequisites on the managed node

- IE 4.0 or higher
- Perl 5.6.1 or higher
- Windows Script Host 5.6 or higher

NOTE

When you run Service Discovery application on the managed node, it will install Windows Script Host 5.6, if the latter is not found on the node. Upgrade to 5.6 if the node currently has an earlier version of Windows Script Host.

Prerequisites on the management server

- The OpenView Vantage Operations agent software has to be installed on the machine where the management server is running, and the machine should be a managed node of the management server running on it.
- VP Service Navigator has to be installed on the management server.

Discovering Services

The discovery process can be executed in three steps:

- Assigning Nodes to the WinOS SPI Node Group
- Distributing Template and Commands to the Node Group
- Discovering Windows Services on Managed Nodes

Assigning Nodes to the WinOS SPI Node Group

In order to facilitate the discovery of the services you want to monitor with the WinOS SPI templates on the various OVO managed nodes in your environment, you first have to add the managed nodes which you want to monitor with the WinOS SPI to the `WinOSSPI` node group. This is the default node group added to the VPO `Node Group Bank` window during the installation of the WinOS SPI software.

To assign the nodes to the WinOS SPI node group, carry out the following steps:

1. Start the OVO GUI
2. If the nodes you want to monitor with the WinOS SPI are *already* present in the OVO `Node Bank` window, you can skip steps 3 to 6 and proceed directly to step 7.
3. If the nodes you want to monitor with the WinOS SPI are *not* yet present in the OVO `Node Bank` window, open the `Node Bank` window and select the following menu option:

   Actions: `Node > Add`
4. The `Add Node` window opens.
5. Enter the requested details as appropriate (label, long hostname, etc), click the `[IP Address]` button to resolve automatically the IP address, and ensure the newly added nodes appear correctly in the `Node Bank` window.

6. Repeat this step for each OVO managed node in your environment that you want to monitor with the WinOS SPI.
7. Open the Node Group Bank window and expand (by double-clicking) the WinOSSPI node group.
8. Drag the managed nodes you want to monitor with the WinOS SPI from the Node Bank window and drop them into the WinOSSPI node-group window.

Distributing Template and Commands to the Node Group

To receive discovery messages from the managed node, assign the WINOSSPI-Discovery template to the WinOSSPI node group. This template is located in the Discovery template group under the group SPI for Microsoft Windows.

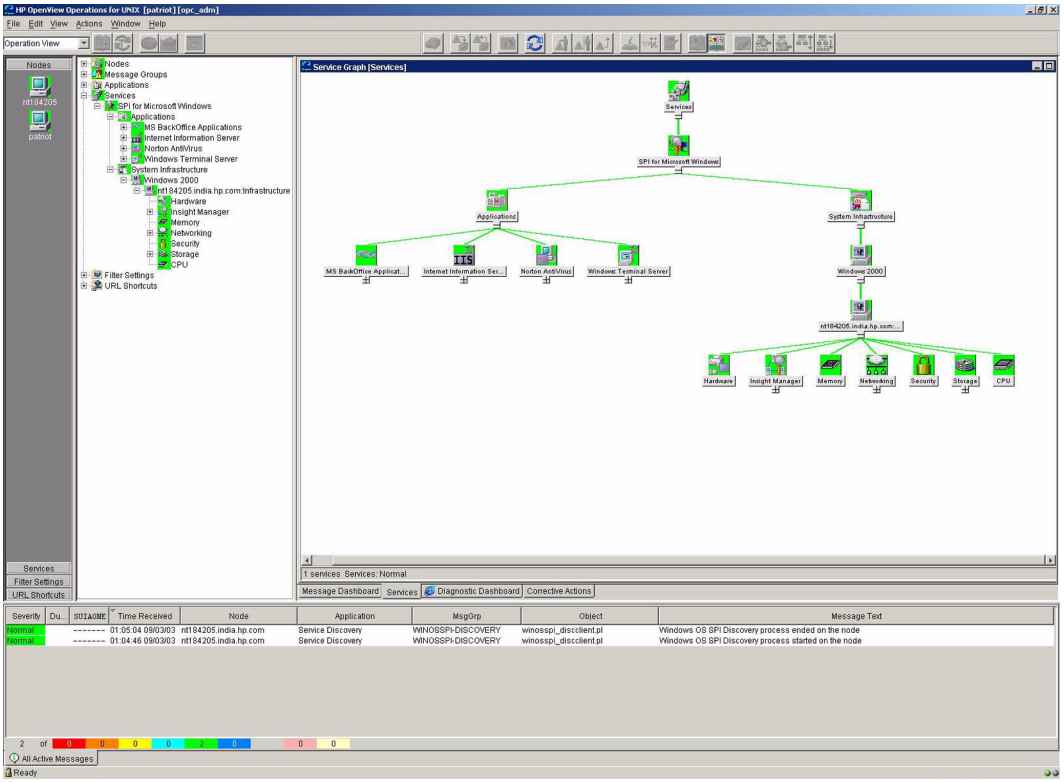
To assign and distribute the WinOS SPI commands, carry out the following steps:

1. In the Node Group Bank Window, click the WinOSSPI node group, and select the following menu option:
2. Actions: Agents > Install / Update S/W & Config...
3. The Install / Update VPO Software and Configuration... window opens. Verify that the correct nodes appear.
4. Next, select Templates and Commands to distribute.
5. Click [OK]

OVO opens a shell to indicate the progress of the distribution. When the distribution process has completed, a message appears in the Message Browser window indicating that the command distribution completed successfully. You can refresh the browser window using the following menu option in the Message Browser window:

```
Browser: Reload
```

Figure 11 Discovering Windows Services



Discovering Windows Services on Managed Nodes

Follow the steps explained below to discover the Windows services on the managed nodes.

1. Start the OVO GUI and open the `Node Bank` window.
2. Open the `Application Bank` window and expand the `WinOSSPI Discovery` application group under the `Windows OS SPI` top level group.
3. Drag and drop the node (to perform discovery on a single node) or the `WinOSSPI` node group (to perform discovery on all the nodes in the node group) on the application `Service Discovery`.

4. The `Discovery` application runs as root.
5. The application output window displays the progress of the WinOS SPI `Discovery`. Note that error messages are written to the following file on the OVO management server:

   `/var/opt/OV/log/discovery.log`
6. Discovery notifies when it starts, ends or fails. You can view the messages in the active message browser to see the current status of Discovery.
7. The application output window displays `Service check done` and `Service Activation done` message for the respective nodes. These messages confirm that Discovery is completed successfully. The service tree can be viewed from the VP Service Navigator GUI.

NOTE

The discovery process takes a snap shot of the state of the services on the managed node at a given point in time. If the service configuration on a managed node subsequently changes, you will have to run the discovery process again to have the changes reflected in the WinOS SPI service tree.

Service Discovery File Locations

The location of the files that are created or used during the WinOS SPI service discovery process are listed below:

The OVO Management Server

If you need to locate a particular type of file on the OVO management server, use the following list:

File Type...	WinOS SPI File Location...
Logs	`/var/opt/OV/log/discovery.log`
Service Configuration File (XML)	`/opt/OV/winosspi/conf/winosspi_${NODENAME}.disc.xml`
Discovery Server Script	`/opt/OV/winosspi/bin/winosspi_discserv.sh`

The VP Service Navigator/Discovery Output files also contain information about errors that occur during the service-discovery process, for example, if a node is down or not responding.

The OVO Managed Nodes

The following list shows the directory locations for the files the WinOS SPI deploys on OVO managed node.

File Type...	WinOS SPI File Location...
Discovery Client Script	`%OvAgentDir%\bin\OpC\cmds\winosspi_discclient.pl`
Discovery Modules	`%OvAgentDir%\bin\OpC\cmds`
Logs	`%OvAgentDir%\log\winosspi_discovery.log` `%OvAgentDir%\log\winosspi\winosspi.log`
Trace (If tracing is enabled)	`%OvAgentDir%\log\winosspi\winosspi.trace`

Index

W