

OVO Report Pack

Software Version: 1.2

HP Performance Insight

User Guide

February 2008



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This edition of the OVO Report Pack User Guide includes the following changes:

- Chapter 1, Overview:
 - Added details about recent enhancements
 - Added section about metrics that are not available from OVOw
- Chapter 2, Installation and Configuration:
 - Added enable TCP/IP protocol for OMw 8.0
 - Minor edits throughout
- Chapter 4, Setting Up a Distributed System:
 - Revised overview re copy policy enhancement

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1 Overview

This chapter covers the following topics:

- [HP Performance Insight](#)
- [The OVO Report Pack](#)
- [Data Collection](#)
- [Folders and Reports](#)
- [Metrics Not Available from OVOw](#)
- [Background on OVO Message Generation](#)
- [Sources for Additional Information](#)

HP Performance Insight

Performance Insight collects data from many sources, performs in-depth trend analysis, maintains performance baselines, and provides users with convenient, web-based reporting. Following is a partial list of product features:

- Distributed architecture
- Easy to scale (supports data collection from thousands of agents)
- CODA/OVPA agent support
- Multi-company security model
- Data warehousing
- Near Real Time reporting
- Forecasting
- Location Independent Reporting (LIR)
- Archiving via Long Term Retention (LTR)
- Multiple aggregation options (by hour, day, week, month; by location, by customer)
- Thresholding and alerting
- Easy identification of bottlenecks via top-10 ranking
- Easy identification of capacity trends
- Accurate and timely documentation for management
- Integration with Network Node Manager (NNM)
- Integration with OpenView Operations (OVO)

The reporting solutions created for Performance Insight cover many areas of business technology optimization. For details, see [Appendix B, PI Report Packs](#).

The OVO Report Pack

The OVO Report Pack processes the following data from one or multiple OVOu servers:

- Message patterns based on OVOu and OVOw Active message tables
- Message patterns based on OVOu and OVOw History message tables
- Service status based on the OVOu and OVOw Service Log table

The OVO Report Pack maintains the follow data sets:

- Active Messages (currently unacknowledged)
- Active + History Messages (consolidated message reporting)
- Service Log
- Configuration

Each data set has four summary tables and four reporting views. (There is extensive use of **object_byvar=yes** in the property tables.)

The OVO Report Pack offers these features:

- Multiple groups and roll-up combinations for:
 - All OVO servers
 - Node and Application
 - Node and Template
 - Server and Service
- Server configuration reporting
- Template and condition reporting

Enhancements in Version 1.2

Version 1.2 of the report pack includes defect fixes and this upgrade package:

- UPGRADE_OVO_to_12.ap

Version 1.1 of the OVO Datapipe collected data from OVOu servers only. Version 1.2 of the OVO Datapipe collects data from:

- OVOu 7.0
- OMu 8.0
- OVOw 7.5
- OMw 8.0

For details about defect fixes in version 1.2 of the report pack, see [Appendix C, Version History](#).

Data Collection

The data collection function works as follows:

- Modeled after the OVIS datapipe
- Written in JAVA
- References systems.xml
- Logs to trend.log
- Exports data to TSV (tab separated)
- Imports data using ee_collect
- Active snapshots are exported using views

Sybase Limitation

Due to a Sybase limitation in the length of the index, a serial number (identifier) is generated on three large text fields

- Service
- Application
- Condition description

Data Export

Data is exported in four distinct data sets

- Active Messages – Exports active message counts based on the following three groupings:
 - Server Node - Application
 - Server Node - Message Group
 - Server Node - Service
- Consolidated Messages – Exports all new active and history messages since last collection
- Service Logs – Exports all service log entries since last collection
- Configuration – Once a day, the configuration for all trouble ticket and notification channels is exported

Why Consolidated Messages?

Consider this simple scenario (the “two-report problem”)

- 1 Fort Knox monitoring receives 200 events on January 10th
- 2 The operators only acknowledge 175 events leaving 25 events for the next day
- 3 At 6:45AM on January 11th, Andrew H. Card has one simple question. How many events came into the Fort Knox NOC?

The answer is in two reports: one report for the 25 remaining active messages and another report for the 175 acknowledged messages. Combined reporting solves the two-report problem, and this is how it works:

- Single report table in OVPI allows the reporting on all messages for the previous day
- An OVPI reaper process handles the active-to-history transition

Export Views

Export views are created with the following abbreviations

- A – Application
- M – Message Group
- N – Node
- O – Server
- S – Service
- U – User
- T – Template/Policy
- D – Condition Description

Examples:

- RV_OVO_MSG_BASE_A – View of R_OVO_MSG_BASE for rollups by Application
- RV_OVO_MSG_BASE_ON – View of R_OVO_MSG_BASE for rollups by Server and Node
- RV_OVO_MSG_BASE_OTD – View of R_OVO_MSG_BASE for rollups by Server, Template, and Condition

Folders and Reports

Installing the OVO Report Pack deploys the following report folders and reports:

Folder	Contents
Active (14)	<ul style="list-style-type: none">• Message Severity by All Messages Trend• Message Severity by Application Trend• Message Severity by Message Group Trend• Message Severity by Node and Service Trend• Message Severity by Server• Message Severity by Server and Application• Message Severity by Server and Message Group Trend• Message Severity by Server and Node Trend• Message Severity by Server and Service Trend• Message Severity by Server, Node, and Application Trend• Message Severity by Server, Node, and Message Group Trend• Message Severity by Server, Node, and Service Trend• Message Severity by Service Trend• OVO Server Summary
Message Weekly (3)	<ul style="list-style-type: none">• Weekly History Dashboard by Template• Weekly History Dashboard by Template and Condition• Last Week Dashboard by Server and Template

Folder	Contents
Config (2)	<ul style="list-style-type: none"> • Notif Channels • Trouble Ticket Channels
Message (27)	<ul style="list-style-type: none"> • History Dashboard by Server and Node • History Dashboard by Server Node and Template • Message Age Severity by Server and User Trend • Message OVO Server Summary • Message Severity by All Messages Trend • Message Severity by Application Trend • Message Severity by Message Group Trend • Message Severity by Node Trend • Message Severity by Node and Application Trend • Message Severity by Node and Message Group Trend • Message Severity by Node and Template Trend • Message Severity by Node and Service Trend • Message Severity by Server Trend • Message Severity by Server and Application Trend • Message Severity by Server and Message Group Trend • Message Severity by Server and Node Trend • Message Severity by Server and Service Trend • Message Severity by Server and Template Trend • Message Severity by Server and User Trend • Message Severity by Server, Node, and Application Trend • Message Severity by Server, Node, and Message Group Trend • Message Severity by Server, Node, and Service Trend • Message Severity by Server, Template and Condition Trend • Message Severity by Service Trend • Message Severity by Template Trend • Message Severity by Template and Condition Trend • Message Severity by User Trend • Monthly Server Breakdown with Special Flags • Server Breakdown with Special Flags • Template Breakdown with Special Flags
Service Log	<ul style="list-style-type: none"> • Severity Trend (Daily messages by services; by severity and duration details daily, weekly, and monthly)

Metrics Not Available from OVOw

The following metrics are collected from OVOu only:

- ESCALATE_FLAG
- IP_ADDRESS

- NOTIFY_SERVICES
- status_flag
- TEMPLATE_DESCRIPTION

The lack of these metrics has an impact on certain reports. If you are looking at an Active/History Message report, the value in the **Escalate** field will always be zero. If you are looking at the Monthly Server Breakdown with Special Flags, or Server Breakdown with Special Flags, the following fields will always be zero:

- **TT only**
- **Notify only**
- **TT & Notify only**

Background on OVO Message Generation

Knowing how OVO generates messages is good background information. Here is the high-level sequence of events:

- 1 An event occurs on a managed object. The managed object creates a message.
- 2 The OVO agent on the managed node receives the message.
- 3 The message is compared to filters. Messages matching suppress conditions or duplicate messages are suppressed. Other messages are forwarded.
- 4 The message is logged locally.
- 5 Messages that match filters are converted to the OVO message format, and forwarded to the management server.
- 6 The management server processes the message by taking one of these actions:
 - Assigns the message to another message group (regrouping).
 - Starts non-local actions configured for the message on the specified node.
 - Forwards the message to external notification interfaces and trouble ticket service.
 - Escalates the message to another preconfigured management server.
 - Buffers the message in the Pending Message Browser.
- 7 The active message is stored in the database.
- 8 The message displays in a Message Browser window.
- 9 When the message is acknowledged, it is removed from the active browser and put into the history database.

What are Active Messages?

- They are messages that have not been acknowledged by an OVO operator.
- They display in the OVO Message Browser.
- They reside in the `opc_act_messages` table.

What are History Messages?

- They are messages that have been acknowledged.
- History messages are moved to the `opc_hist_messages` table for historical analysis.

What is a Message Group?

A message group is a convenient way to categorize messages. Messages belonging to the same function or task can be collected into a single group. For example, the message group Backup can contain all messages that relate to the backing up and storing of data (for example, messages originating from a network backup program, pieces of hardware used in the backup or storage operation, and so on). Message groups are then assigned to operators, who see and manage only those groups assigned to them.

What is an Application?

An application can be a program, command, script, utility or service that the operator uses to maintain and control system and network services. For example, a backup program, and the process status command `ps`, can be integrated as applications.

Sources for Additional Information

The demo package that comes with the OVO Reporting contains a sample of each report in the package. If you have access to the demo package and you want to know what fully-populated reports look like, install the demo package. Like real reports, demo reports are interactive. Unlike real reports, the data in a demo report is static.

For details about known issues and recent enhancements, see *OVO Reporting 1.2 Release Notes*. Manuals for OVPI core, and manuals for the reporting solutions that run on OVPI core, can be downloaded from this site:

http://ovweb.external.hp.com/lpe/doc_serv/

The user guides for OVPI are listed under **Performance Insight**. The user guides for report packs and datapipes are listed under **Performance Insight Report Packs**. Each manual indicates a date. If a manual is revised and reposted, the date will change. Since we post revised manuals on a regular basis, be sure to compare your PDF to the PDF on the web and use the web version if it is newer.

2 Installation and Configuration

This chapter covers the following topics:

- [Guidelines for a Smooth Install/Upgrade](#)
- [Using Package Manager to Install OVO Reporting](#)
- [Configuration Steps](#)

Guidelines for a Smooth Install/Upgrade

An OVPI reporting solution has two ingredients, a report pack and a datapipe. Some reporting solutions include multiple datapipes. When you install the datapipe, you configure OVPI to collect a specific type of performance data at a specific interval. When you install the report pack, you configure OVPI to summarize and aggregate the data collected by the datapipe.

The report pack CD contains report packs, datapipes, shared packages, and documentation. If you, or someone else, extracted packages from the CD, then every package, including the OVO Report Pack and the OVO Datapipe, was copied to the Packages directory on your system and is now ready to install. Your next step is to launch Package Manager and follow the on-screen instructions.

If you have not extracted packages from the report pack CD, do that now. You will find a CD/package extract procedure later in this chapter. Extracting packages to the Packages directory launches Package Manager. Before using Package Manager to install OVO Reporting, be familiar with the prerequisites for OVO Reporting.

Supported Environments

The OVO Report Pack is designed to operate in the following environments:

OVPI Version	Oracle	Sybase
5.0 + SP3	9.0.2.4	11.9.2.5
5.1 + SP1	9.0.2.5	11.9.2.5
5.2	10g	15.0.1
5.3	10g	15.0.2

Common Property Tables

If you are running an older version of Common Property Tables, you must upgrade to version 3.7. If you are not running any version of Common Property Tables, Package Manager will install the latest version of Common Property Tables for you, automatically.

When you upgrade Common Property Tables, do not install the upgrade package *and* other packages at the same time. Instead, install the upgrade package for Common Property Tables and nothing else. Once Common Property Tables is upgraded, restart Package Manager and install more packages. For more information about Common Property Tables, refer to the *Common Property Tables 3.7 User Guide*.

Are You Upgrading to Version 1.2?

If you are upgrading, follow these steps:

- 1 Make sure that you have the latest version of Common Property Tables installed; if you are not running the latest version, upgrade to version 3.7.
- 2 Uninstall the previous release of the OVO Datapipe.
- 3 Restart Package Manager and install these packages at the same time:
 - UPGRADE_OVO_to_12
 - OVO Datapipe 1.2

Using Package Manager to Install OVO Reporting

This section explains how to install OVO Reporting fresh, for the first time. It covers the following tasks:

- Task 1: Extract packages from the report pack CD
- Task 2: If necessary, upgrade Common Property Tables
- Task 3: Start Package Manager and install these packages:
 - OVO Reporting 1.2
 - OVO Datapipe 1.2

Task 1: Extract packages from the report pack CD

- 1 Log in to the system. On UNIX systems, log in as root.
- 2 Stop OVPI Timer and wait for processes to terminate.

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

UNIX: As root, type one of the following:

```
HP-UX: sh /sbin/init.d/ovpi_timer stop
```

```
Sun: sh /etc/init.d/ovpi_timer stop
```

- 3 Insert the report pack CD in the CD-ROM drive. On Windows, a Main Menu displays automatically; on UNIX, mount the CD, navigate to the top-level directory for the CD drive, and type the setup command.

- 4 Select OVPI report packs by typing **1** in the choice field and pressing **Enter**. The install script displays a percentage complete bar. When the extraction finishes, the install script starts Package Manager. The Package Manager welcome window opens.

If you navigate to the Packages directory on your system, you will see the following directory structure:

```
{DPIPE_HOME}/Packages/OVO_Reporting/OVO.ap  
{DPIPE_HOME}/Packages/OVO_Reporting/OVO_Demo.ap  
{DPIPE_HOME}/Packages/OVO_Reporting/OVO_Datapipe.ap  
{DPIPE_HOME}/Packages/UPGRADE_OVO_Reporting_to_12.ap
```

If this is a new install, you can ignore the upgrade package. Installing the demo package is optional.

Task 2: Upgrade to Common Property Tables 3.7

When performing this upgrade, observe these rules:

- Do not install anything else; install the upgrade package and *only* the upgrade package.
- When prompted to accept or disable the option to Deploy Reports, accept the default. If you do not deploy reports, you will not get the forms.
- When the install finishes, click **Done** to return to the Management Console.

Task 3: Install the OVO report pack and the OVO datapipe

- 1 If Package Manager is not running, select **Tools > Package Manager** from the Management Console. The Package Manager welcome window opens.
- 2 Click **Next**. The Package Location window opens.
- 3 Click **Install**. Approve the default installation directory or use the browse feature to select a different directory if necessary.
- 4 Click **Next**. The Report Deployment window opens. Accept the default for Deploy Reports; accept the default for application server name and port. Type your username and password for the OVPI Application Server.
- 5 Click **Next**. The Package Selection window opens.
- 6 Click the check box next to the following packages:
 - *OVO_Reporting 1.2*
 - *OVO_Datapipe 1.2*
- 7 Click **Next**. The Type Discovery window opens.
- 8 Disable the default to run Type Discovery immediately after package installation.
 - ▶ OVO Reporting does not require Type Discovery. If you are installing other report packs in addition to OVO Reporting, you may need to run Type Discovery for those packages.
- 9 Click **Next**. The Selection Summary window opens.
- 10 Click **Install**. The Installation Progress window opens and the install process begins. When the install finishes, a package install complete message appears.
- 11 Click **Done** to return to the Management Console.
- 12 Restart OVPI Timer.

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

UNIX: As root, type one of the following:

HP-UX: `sh /sbin/init.d/ovpi_timer start`

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

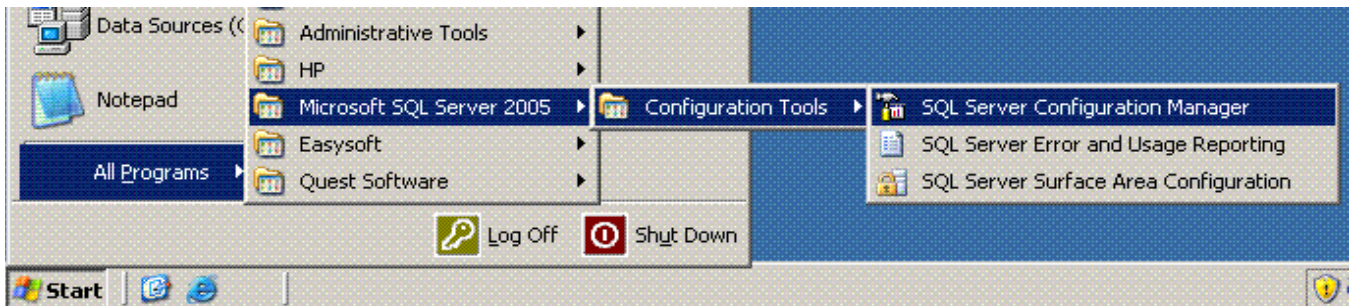
Configuration Steps

Once the report pack is installed, perform these configuration steps related to the OVO database:

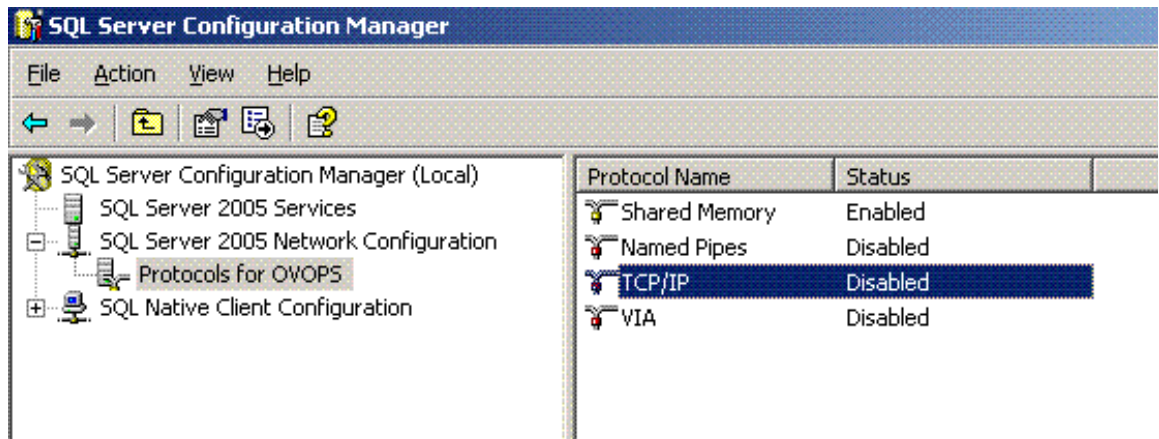
- Enable the TCP/IP protocol on all OMw 8.0 servers (applies to OMw 8.0 servers only)
- Set Up a Connection to the OVO database
- Register OVO servers with the OVO Datapipe (add each system name to the .prp file)
- Configure OVO for Active Message Export

Task 1: Open the TCP/IP Protocol on the OMw Server (applies to OMw 8.0 only)

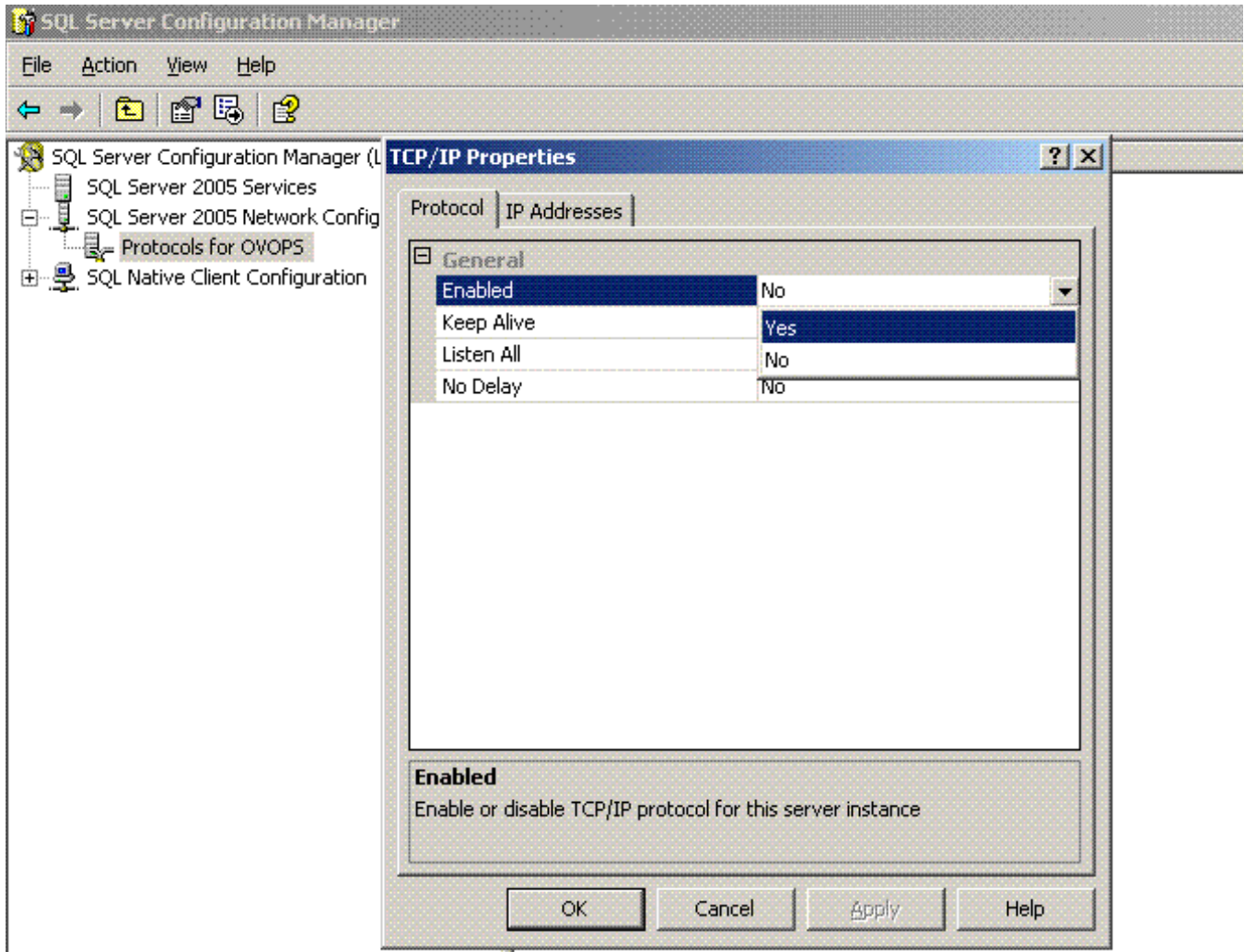
- 1 Select **Start > All Programs > Microsoft SQL Server 2005 > Configuration Tools > SQL Server configuration Manager**.



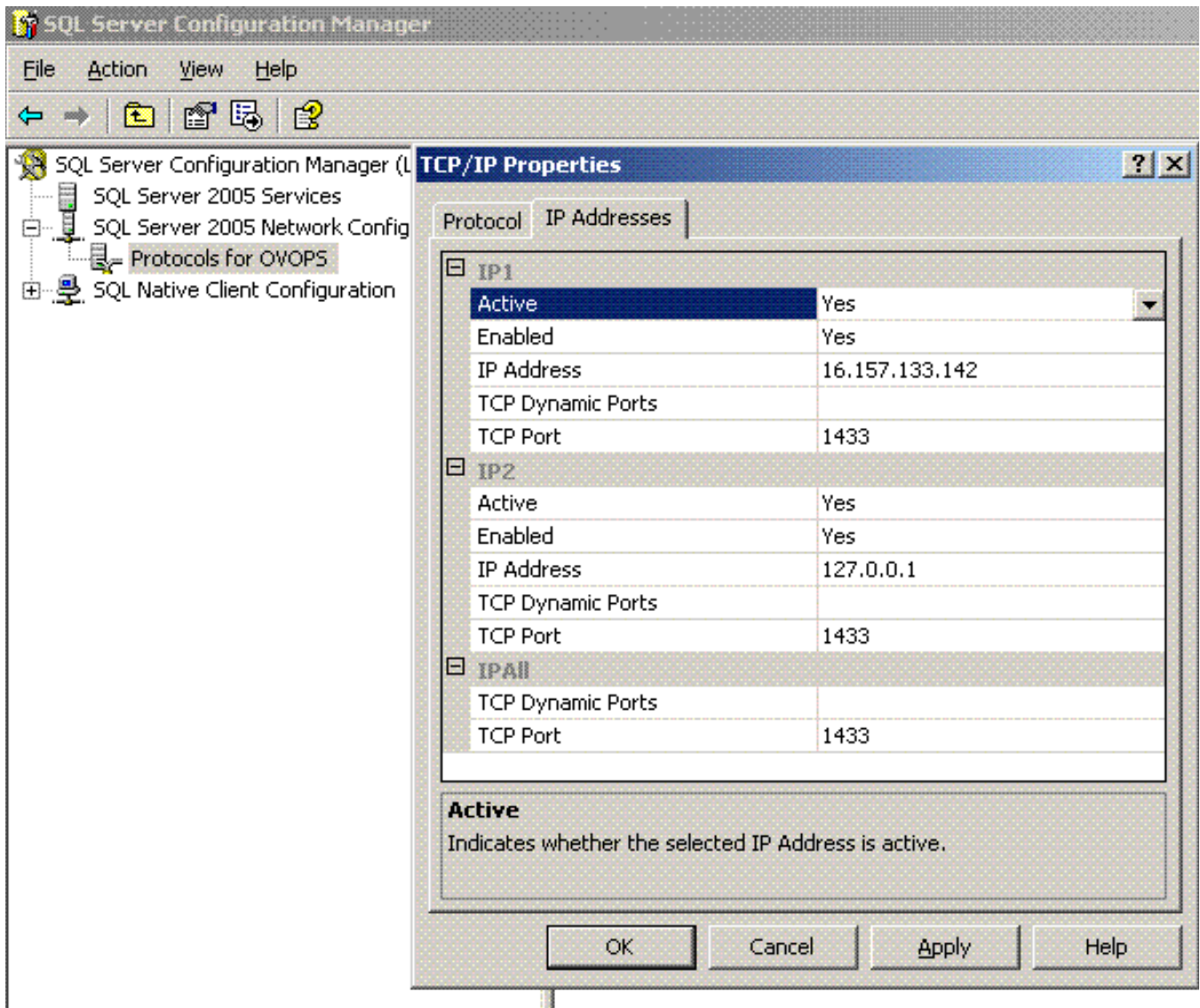
- 2 The SQL Server Configuration Manager window opens.
- 3 Select **Protocols for OVOPS**. In the panel on the right, select **TCP/IP**.



- 4 The TCP/IP Properties window opens.



- 5 In the Protocol tab, opposite **Enabled**, select **Yes**. The TCP/IP protocol is now enabled.
- 6 Select the **IP Addresses** tab.



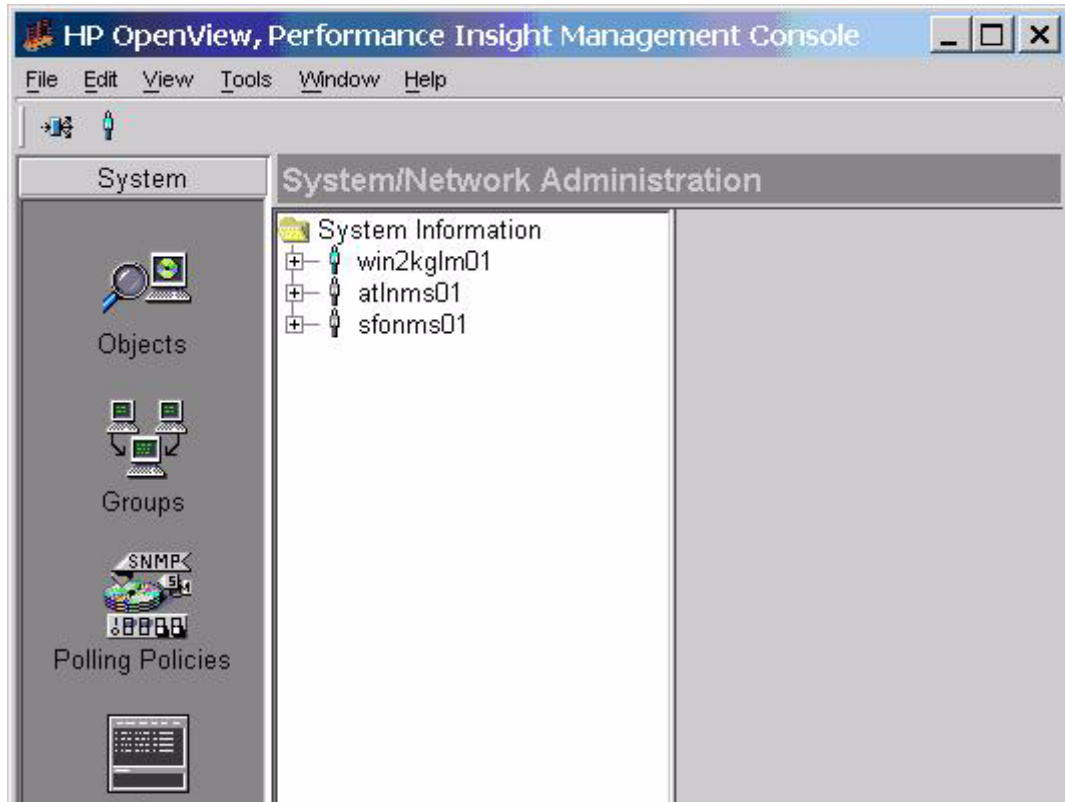
- 7 Set all **Active** to **Yes**.
- 8 Set all **Enabled** to **Yes**.
- 9 Do not modify the IP Address field.
- 10 Set **TCP Dynamic Ports** to null.
- 11 Set the **TCP port** to any port number, ensuring no port conflict. An MS SQL server usually uses port 1433.
- 12 Click **Apply** to apply your changes.
- 13 Click **OK** to close pop-up window.
- 14 Restart the MS SQL service.

Task 2: Add an External OVO Database to OVPI

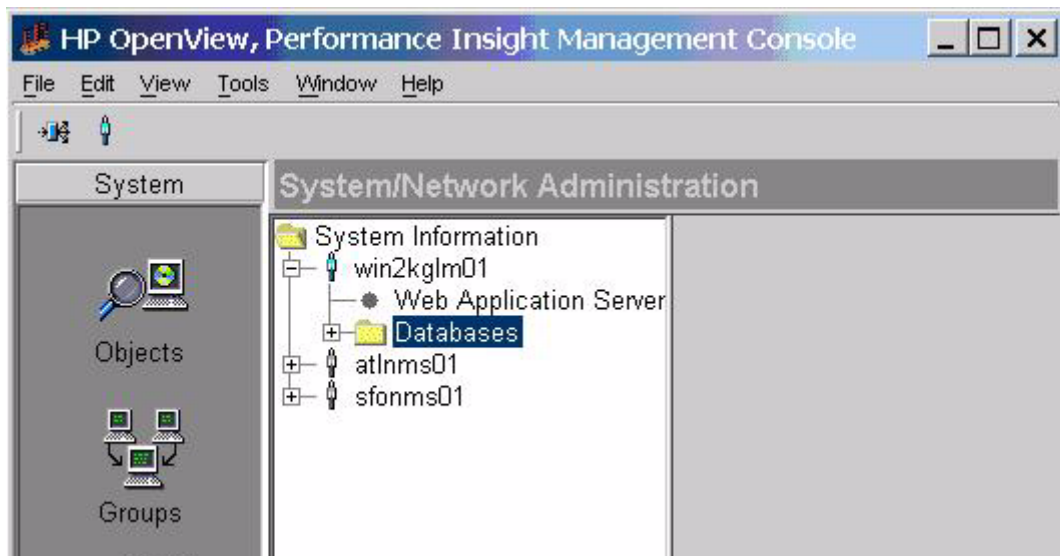
The OVPI server cannot connect to the OVO database unless it has the information it needs to make the connection. Supply this information by running the Add Database Wizard.

Follow these steps to connect OVPI to the OVO database:

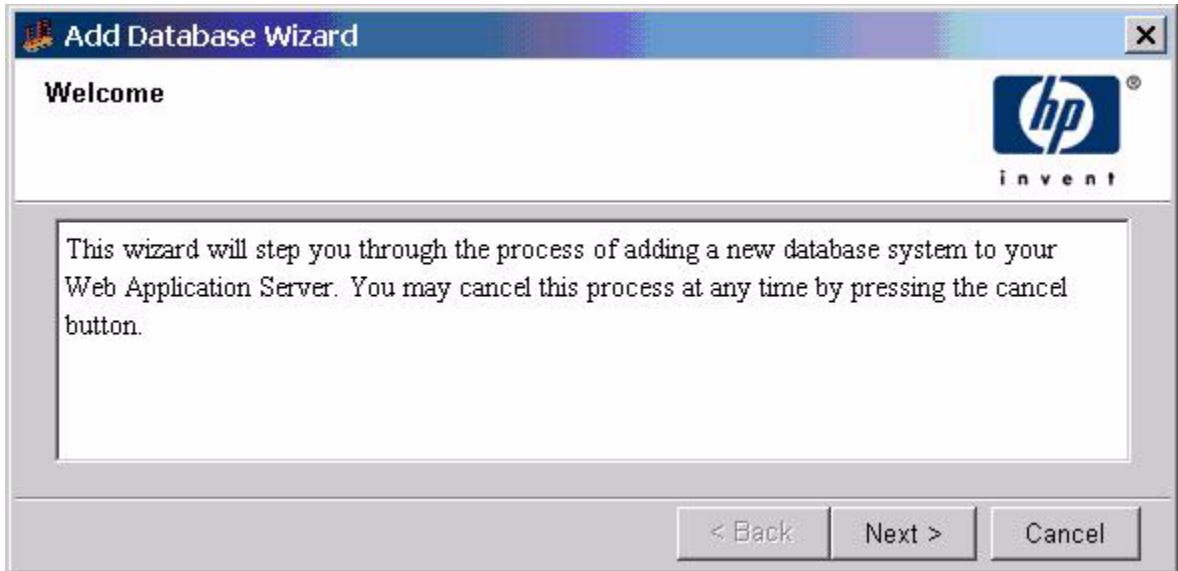
- 1 Start the Management Console and login as the OVPI administrator.
- 2 Click the **Systems** icon on the lower left. The System/Network Administration pane opens.



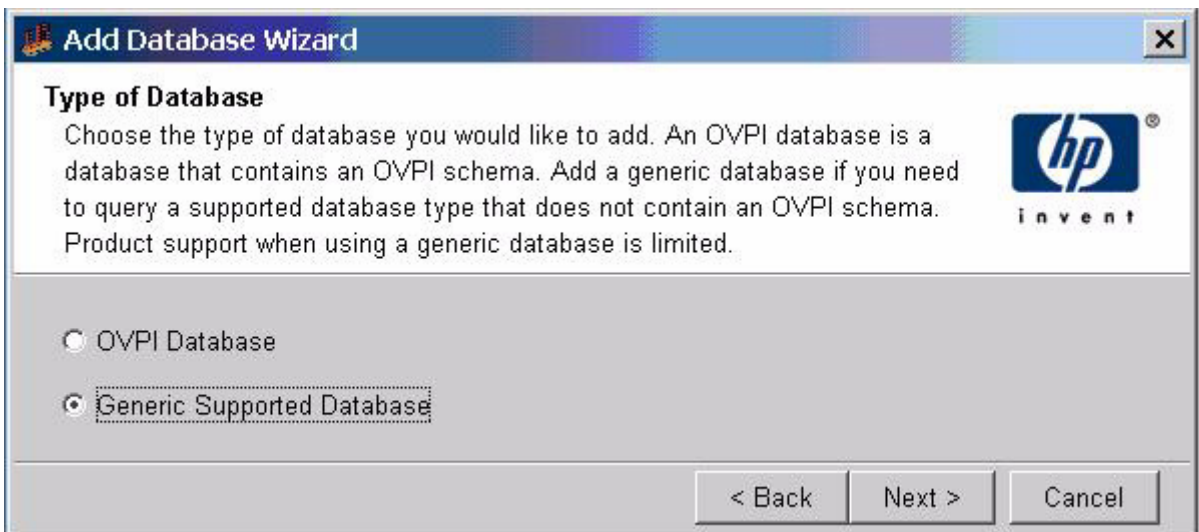
- 3 In the center pane under the **System Information** folder, open the folder representing the local OVPI server.



- 4 Right-click **Databases** and select **Add OVPI Database**. The Add Database Wizard opens.



- 5 Click **Next**. The Type of Database window opens.



- 6 Select **Generic Supported Database** and click **Next**.

- 7 In the Database Connectivity Information window, add information about the OVO database.

The screenshot shows a window titled "Database Connection Information" with the subtitle "Enter the database connection information". The window contains a form with the following fields and values:

Hostname	amazonchildsql
Port	1433
Description	OMW 8 server
Vendor	SQLServer
	<input checked="" type="checkbox"/> Windows Authentication
Domain	amazonchildsql
Database Instance	ovops
Window Username	administrator
Password	*****

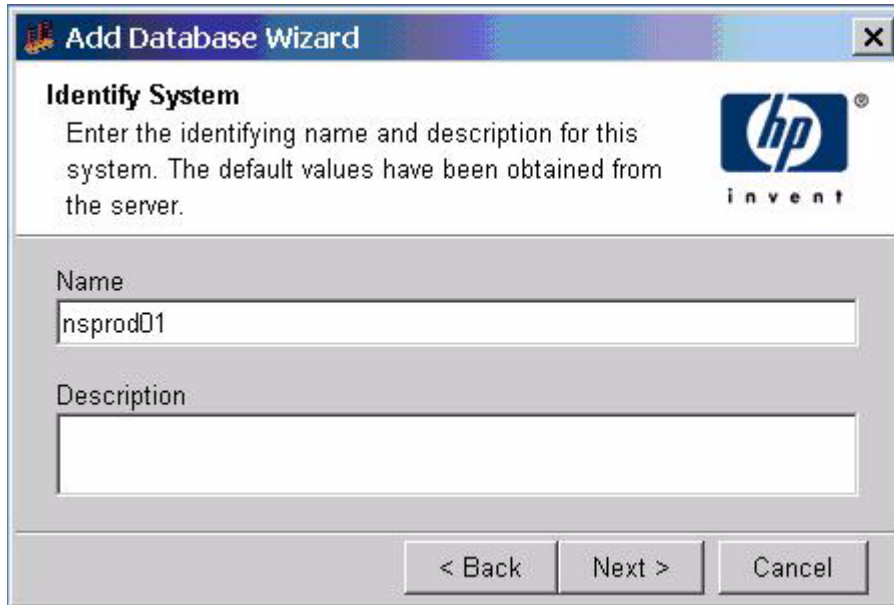
For an OVOu Database:

- a **Hostname:** IP Hostname of the OVOu server
- b **Port:** port the database is listening on
- c **Vendor:** Oracle
- d **Database Instance:** SID of OVO database
- e **Database Username:** OVO database login
- f **Password:** OVO database password for login

For an OVOw Database:

- a **Port:** the SQL Server port
- b **Vendor:** SQLServer
- c **Windows Authentication:** check this box (OMw 8.0 only)
- d **Domain:** the domain on the Windows account (OMw 8.0 only)
- e **Window Username:** the Windows account username. The Windows account username must have permission to access MS SQL Server Express (shipped with OMw 8.0).
- f **Password:** the Windows account password, not the database password

- 8 Click **Next**. The Identify System window opens.



Add Database Wizard

Identify System

Enter the identifying name and description for this system. The default values have been obtained from the server.

hp
invent

Name
nsprod01

Description

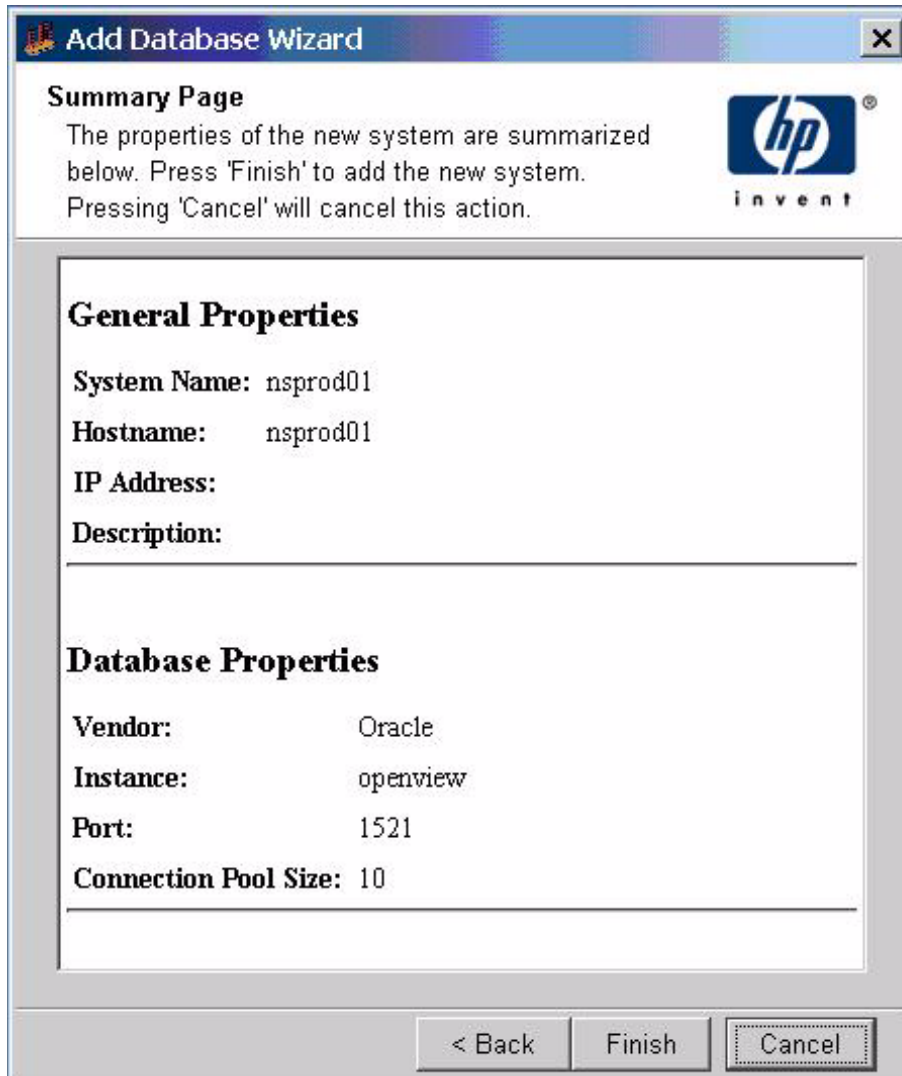
< Back Next > Cancel

- 9 Type a name and a description.

You may use the hostname as the name. Use any name that is meaningful to you.

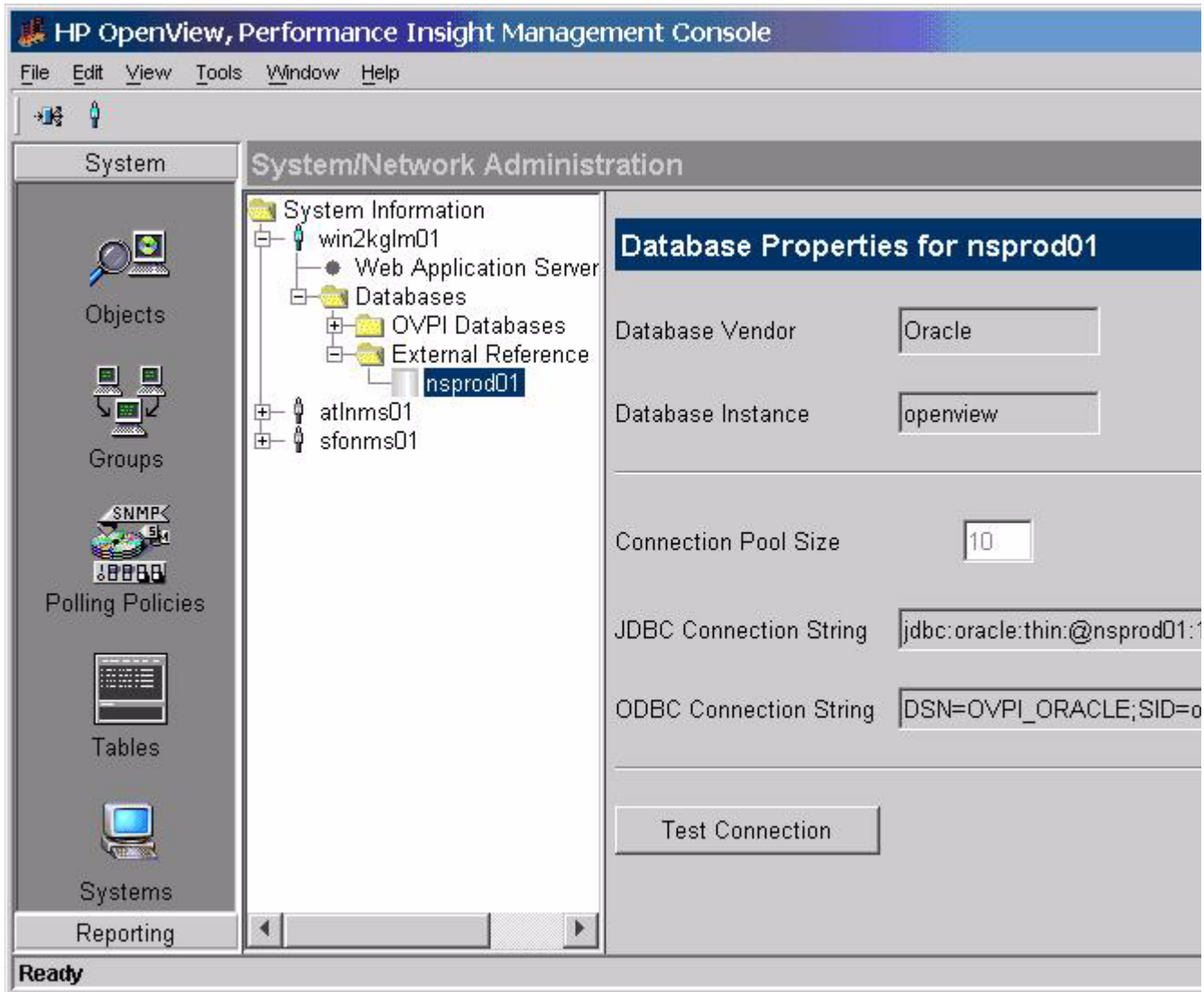
The name you specify here will appear in the <Name> field in the systems.xml file, and in reports. The OVO Datapipe will use the name you specify here to locate connectivity information for the OVO database.

10 Click Next. The Summary Page window opens.

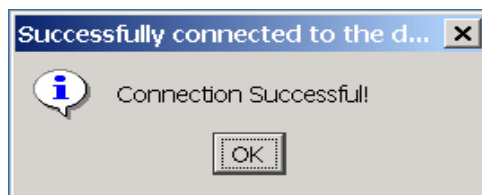


11 Review the contents of the Summary Page. If everything is okay, click **Finish**.

- 12 Verify that the connection you just added is recognized by OVPI by selecting the new database in the System/Network Administration pane. Review the connectivity parameters.



- 13 Click the **Test Connection** button to verify that OVPI can connect to the OVO database.



Task 3: Register OVO Servers with the OVO Datapipe

Add each system to the appropriate .prp file:

File	Function
{DPIPE_HOME}/data/ovou8servers.prp	List of OVOu 8.0 servers
{DPIPE_HOME}/data/ovou7servers.prp	List of OVOu 7.0 servers
{DPIPE_HOME}/data/ovow8servers.prp	List of OMw 8.0 servers
{DPIPE_HOME}/data/ovow7servers.prp	List of OVO 7.5 servers
{DPIPE_HOME}/data/systems.xml	Connectivity details for each database

All four .prp files were added to the data directory when you installed the report pack. The OVO Datapipe uses the .prp file to determine which OVO databases it will collect data from and how to connect to each database.

Register each server by adding to the file one line for each OVO server you want to collect from. If you are collecting from multiple servers, list each server on a separate line. If you are collecting from a single OVO server, the file will contain one line. No other information is allowed in this file. Do not insert comments or any other information.

Each name you add to this file must match the name you typed in the Identify System window. The OVO Datapipe will use these names to locate connectivity information in the systems.xml file. These names will also appear in reports.

Task 4: Configuring OVO for Active Message Export

The OVO Datapipe does not export messages from the Active Message table. Instead, it takes a snapshot of current Active Message statistics and then summarizes the results to hourly, daily, weekly, and monthly levels. The results are similar to HISTORY statistics. The difference is that taking a snapshot of current statistics produces a summary of “Current Active Messages” as compared to “New HISTORY”.

To make the snapshot of current Active Message statistics possible, you must create three separate export views on the OVO database. The OVO Report Pack rollup generates additional levels of data from the data provided by the export views.

The following export views are created for the element level indicated:

OVPI_ACT_ONA:OVO_SERVER – NODE_NAME – APPLICATION

OVPI_ACT_ONS:OVO_SERVER – NODE_NAME – SERVICE_NAME

OVPI_ACT_ONM:OVO_SERVER – NODE_NAME – MSG_GROUP

Until you create these views, current Active Message statistics will not be exported from that OVO server. Follow these steps to create views:

- 1 Login to the OVPI server as the OVPI administrator (trendadm on Unix).
- 2 Execute the following command at the command line:

```
ovo_datapipe -dataset create_view -database <nsprod1> -server <u8>
```

For each OVO database listed in .prp file, four blocks of messages will be printed on the command line. The messages indicate that SQL statements are being executed to create four table views in each OVO database.



If the views fail to create, verify that you have permission to create and drop views.

How the Export Program Operates

The OVO export program connects to the OVO database and exports information from Consolidated and Service Log tables. When the export process runs for the second time, only new records will be exported from the tables.

The export process is driven by an OVPI trend_proc batch file. After installation, the file will be located in the following location:

```
{DPIPE_HOME}/scripts/OVO_Datapipe_Hourly.pro
```

This file drives three separate export processes, one for each of the three required OVOu datasets. Here is the executable command for each dataset:

```
ovo_datapipe -dataset MSG
ovo_datapipe -dataset SRV_LOG
ovo_datapipe -dataset ACT
```

The name of the export program is *ovo_datapipe*. Although the program has several configurable parameters (see below), in most cases only the **-dataset** parameter is needed. The following files contain the information that the *ovo_datapipe* export program requires to connect to each OVO database:

File	Function
{DPIPE_HOME}/data/ovou8servers.prp	List of OVOu8 servers
{DPIPE_HOME}/data/ovou7servers.prp	List of OVOu7 servers
{DPIPE_HOME}/data/ovow8servers.prp	List of OVOW8 servers
{DPIPE_HOME}/data/ovow7servers.prp	List of OVOW7 servers
{DPIPE_HOME}/data/systems.xml	Connectivity details for each database

If the **-dataset** option is the only option specified when the *ovo_datapipe* process is initiated, *ovo_datapipe* will collect data from every OVO server listed in the *ovou* and *ovow* .prp files. The *ovo_datapipe* process will use the list of servers in the *ovou* and *ovow* .prp files to locate connectivity information in the *systems.xml* file.

Export Program Parameters

The OVOu export process is flexible. The following table describes each parameter.

Parameter	Description
-dataset	<ACT MSG CFG SRV_LOG create_view drop_view> ACT: export OVO Active Message Statistics. HIST: export OVO Consolidated Messages. CFG: export OVO channel configuration. SRV_LOG: export OVO Service Log records. create_view: create OVO Active Message Statistics database views. drop_view: remove OVO Active Message Statistics database views.
-database	“Name” of OVO server to connect to and export OVO data from. The specified name must match an entry in OVPI’s systems.xml file based on the “<Name>” tag field in the systems.xml file. This must also match an entry in the .prp file. Normally, no OVO server will be specified and data will be collected from all OVO servers listed in the .prp file.
-datadir	By default, data is exported to \$DPIPE_HOME/data/ImportData/OVO_Reporting. A different location can be specified using this option.
-prevdays	Specifies the number of days prior to today to collect data inclusive of today. Only used if the previous collection time is not stored in the maxtime <TIME_TABLE>_<TIME_FIELD> file or for the first execution. The default value is 1 day. This parameter only applies to History and Service log data.
-debug	Set for Debug output.
-help	Display help information.
-version	Display ovo_datapipe version.
-v	Display ovo_datapipe version.
-server	Either u8, u7, w8, or w7, corresponding to the database specified by -database

The first time the export process runs, an excessive amount of data can be exported from the OVO database if the process is allowed to go back too far to locate records to export. If desired, you can limit the amount of data that will be exported by configuring the OVO datapipe to go back a specific number of days. If you do not specify a value for this parameter, the export will adhere to the default, which is to export messages no older than midnight of the previous day.

The **-prevdays** option does not apply to all datasets. For example, the OVO Active Message table export process does not actually export message records. Instead, a small number of records are captured that provide a snapshot of “current” record statistics for the OVO Active Message table. In this case there is no need to specify a maximum number of days to include in the export process.



OVO export files are imported into PI and then deleted by default. If archiving is enabled, you can avoid filling up the filesystem by setting up a process to clean out the export files. Clean the export files from the following location on the PI server:

```
{DPIPE_HOME}/data/ImportData/OVO_Reporting/Archive
```

Testing the Export Process

Run the following command to test the export process:

```
ovo_datapipe -database <XYZ> -server <u7> -dataset ACT
```

To view the results, navigate to the following directory:

```
data/ImportData/OVO_Reporting
```

- Oracle SID for the OVO database
- OVO database user name
- OVO database user password

3 Verification Steps

This chapter will help you confirm that OVO Reporting is properly installed and working correctly. It answers the following questions:

- Does trendtimer.sched contain collection and rollup entries?
- Did the reports deploy as expected during package installation?
- Is the data export program working?
- Is OVPI importing data?
- Are the hourly tables being populated?
- Are the daily tables being populated?
- How can I remove the OVO report pack?

Following the verification steps in this chapter is not mandatory. Skip them unless you have reason to believe that something is not working properly.

Collection and Rollup Entries in trendtimer.sched

The installation process adds entries to trendtimer.sched to ensure that processes are executed as needed by trendtimer. The following entries are added to trendtimer.sched:

```
# HP OVO Reporting Project
1:00+5 - - {DPIPE_HOME}/bin/trend_proc -f {DPIPE_HOME}/scripts/OVO_Datapipe_Hourly.pro
24:00+2:00 - - {DPIPE_HOME}/bin/trend_proc -f {DPIPE_HOME}/scripts/OVO_Datapipe_Daily.pro
### OVO Reporting Daily Processing
24:00+8:00 - - {DPIPE_HOME}/bin/trend_proc -f {DPIPE_HOME}/scripts/Daily_OVO_Rollup.pro
```

Correct Deployment of Reports

If the deploy reports options was selected during the installation process, the reports were deployed to the OVPI server you specified. To verify that the reports deployed as expected, check this directory:

```
{DPIPE_HOME}/reports/deploy/system/OVO_Reporting
```

The Data Export Program is Working

Data collection will take place for the first time at 5 minutes past the hour (1:00+5 - -), in accordance with entries added to `trendtimer.sched` for data collection when OVO Reporting was installed. This process exports records from the OVO database into flat files on the PI server. The OVO data is later imported into the PI database and summarized by the daily rollup process specific to each dataset.

- ▶ The first time the `ovou_datapipe` program runs, by default, the program exports data records received since midnight of the previous day. If desired, you may override the default. To force the export process to include records from further back in time, use the `-prevd` option and specify the number of days. This parameter only affects the first time the export program is executed for a specific dataset. After that, the export program keeps track of the last exported timestamps and only exports the records that arrived since the previous export.
- ▶ If this option is desired, add the `-prevd` option to the `ovou_datapipe` statements before executing the datapipe the first time. If there are any timestamp files in `{DPIPE_HOME}/Data/ImportData/OVO_Reporting`, these timestamp files will override the `-prevd` option. They must be deleted for the `-prevd` option to work.

The following command can be executed at the command line to initiate the `ovou_datapipe` export process manually:

```
trend_proc -f {DPIPE_HOME}/scripts/OVO_Datapipe_Hourly.pro
```

After the successful completion of the above command, the exported data should be located in the following directory:

```
{DPIPE_HOME}/data/ImportData/OVO_Reporting
```

The exported OVO data in that directory should be in files with names similar to the following:

```
OVO_ACT_ONA_<ovo server name>_<date>_<time>.dat
OVO_ACT_ONM_<ovo server name>_<date>_<time>.dat
OVO_ACT_ONS_<ovo server name>_<date>_<time>.dat
OVO_MSG_HIST_<ovo server name>_<date>_<time>.dat
OVO_MSG_ACT_<ovo server name>_<date>_<time>.dat
OVO_SRV_LOG_<ovo server name>_<date>_<time>.dat
OVO_CFG_LOG_<ovo server name>_<date>_<time>.dat
```

OVPI Is Importing Data

The OVO data is imported into the PI database by the daily rollup process specific to each dataset. Each daily rollup process imports the appropriate dataset files and then steps through the rollup of that dataset.

- ▶ The data is imported into PI once per day as part of the daily rollup process.

The import process will populate the following data tables in the PI database with records.

- R_OVO_MSG_BASE
- R_OVO_ACT_BASE
- R_OVO_SRVLOG_BASE
- R_OVO_CONFIG_BASE



Records will only be added to these tables if the OVO server has received new records for those datasets.

Verify this in Table Manager by navigating to the OVO_Reporting Category and locating the tables listed above.

The oldest and most recent time stamps can be determined for the import tables by executing the following SQL statement in SQLplus, ISQL, or SQL Advantage:

```
select 'R_OVO_MSG_BASE', min(ta_period), max(ta_period) from R_OVO_MSG_BASE
select 'R_OVO_ACT_BASE', min(ta_period), max(ta_period) from R_OVO_ACT_BASE
select 'R_OVO_SRVLOG_BASE', min(ta_period), max(ta_period) from R_OVO_SRVLOG_BASE
select 'R_OVO_CONFIG_BASE', min(ta_period), max(ta_period) from R_OVO_CONFIG_BASE
```

This should return valid date/times in the second and third column if data has been imported.

The OVO export files should have been archived to the following location by the OVPI data import process:

```
{DPIPE_HOME}/data/ImportData/OVO_Reporting/Archive
```

If the OVO export files are in the “OVO_Reporting” directory but not in the “Archive” directory, the OVO export ran successfully but the import process was not successful. You will find errors relating to the import process in this file:

```
{DPIPE_HOME}/log/trend.log
```

The Hourly Data Tables Are Populated

After several hours of data have been imported into OVO Report Pack base tables in the PI database, the hourly rollup process can be initiated as follows:

- 1 Change directory to {DPIPE_HOME}/scripts
- 2 Execute the following commands:
 - a `trend_proc -f Daily_OVO_ACT_Rollup.pro`
 - b `trend_proc -f Daily_OVO_MSG_Rollup.pro`
 - c `trend_proc -f Daily_OVO_SRVLOG_Rollup.pro`
 - d `trend_proc -f Daily_OVO_CFG_Rollup.pro`
- 3 Use Table Manager to verify that the hourly data tables have been populated, or execute the following SQL statements:

```
select 'SH_OVO_MSG', min(ta_period), max(ta_period) from SH_OVO_MSG
select 'SH_OVO_ACT', min(ta_period), max(ta_period) from SH_OVO_ACT
```

If data was rolled up to the hourly level, these statements should return valid date/times in the second and third column.

- ▶ The individual steps of any `trend_proc` file can be executed at the command line as long as the environment variables are defined correctly and slashes are in the correct direction (/).

The Daily Tables Are Populated

After a complete day of data has been imported into the OVO Report Pack's Base tables within the OVPI database, the daily rollup process can be initiated again using the same command as specified above:

- 1 Change directory to `{DPIPE_HOME}/scripts`
- 2 Execute the following commands:
 - a `trend_proc -f Daily_OVO_ACT_Rollup.pro`
 - b `trend_proc -f Daily_OVO_MSG_Rollup.pro`
 - c `trend_proc -f Daily_OVO_SRVLOG_Rollup.pro`
 - d `trend_proc -f Daily_OVO_CFG_Rollup.pro`
- 3 Use Table Manager to verify that the daily data tables were populated, or execute the following SQL statements:
 - a `select 'SD_OVO_MSG', min(ta_period), max(ta_period) from SD_OVO_MSG`
 - b `select 'SD_OVO_ACT', min(ta_period), max(ta_period) from SD_OVO_ACT`
 - c `select 'SD_OVO_SRVLOG', min(ta_period), max(ta_period) from SD_OVO_SRVLOG`

If data rolled up to the daily level, these statements should return valid date/times in the second and third column.

The daily rollup processes also force the summarization to the weekly, monthly, and baseline level, if enough time has passed and enough data has been collected to summarize to those levels. Data can only rollup to the next time interval when the time period is complete. For example, monthly data for the month we are in now will not be generated until the present month has ended.

Verify those tables using the following SQL statements:

```
select 'SW_OVO_MSG', min(ta_period), max(ta_period) from SW_OVO_MSG
select 'SM_OVO_MSG', min(ta_period), max(ta_period) from SM_OVO_MSG

select 'SW_OVO_ACT', min(ta_period), max(ta_period) from SW_OVO_ACT
select 'SM_OVO_ACT', min(ta_period), max(ta_period) from SM_OVO_ACT

select 'SW_OVO_SRVLOG', min(ta_period), max(ta_period) from SW_OVO_SRVLOG
select 'SM_OVO_SRVLOG', min(ta_period), max(ta_period) from SM_OVO_SRVLOG
```

Uninstalling the OVO Report Pack

Follow these steps to uninstall the OVO Report Pack.

- 1 Log in to the system. On UNIX systems, log in as root.
- 2 Stop OVPI Timer and wait for processes to terminate.
Windows: Select **Settings > Control Panel > Administrative Tools > Services**.
UNIX: As root, do one of the following:
HP-UX: `sh /sbin/init.d/ovpi_timer stop`
Sun: `sh /etc/init.d/ovpi_timer stop`
- 3 Start Package Manager. The Package Manager welcome window opens.
- 4 Click **Next**. The Package Location window opens.
- 5 Click **Uninstall**.
- 6 Click **Next**. The Report Undeployment window opens.
- 7 If Application Server reports were deployed from this server, accept the defaults for Undeploy Reports, Application Server Name, and Port. If Application Server reports were **not** deployed from this server, clear the check box and skip to step 9.
- 8 Type the username and password for the OVPI Application Server.
- 9 Click **Next**. The Package Selection window opens.
- 10 Click the check boxes next to the following packages, if they appear in the list:
 - *OVO Reporting 1.2*
 - *OVO Datapipe 1.2*
- 11 Click **Next**. The Selection Summary window opens.
- 12 Click **Uninstall**. The Progress window opens and the removal process begins. When the uninstall process is complete, a package removal complete message appears.
- 13 Click **Done** to return to the Management Console.
- 14 Restart OVPI Timer.

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

UNIX: As root, do one of the following:

HP-UX: `sh /sbin/init.d/ovpi_timer start`

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

4 Setting Up a Distributed System

This chapter covers the following topics;

- Overview of the steps involved in setting up a distributed system
- Checking for proper package installation
- Splitting device groups
- Configuring the central server
- Configuring a satellite server

Overview of the Steps

Follow these steps when setting up a distributed system:

- 1 Decide whether you want local reporting or central reporting.
- 2 Install the right set of packages on each server (a central server that is not polling will not need datapipes; the satellite servers will need datapipes).
- 3 Verify that the system clocks in your environment are synchronized.
- 4 Register your satellite servers.
- 5 If you are not copying rate data to the central server, enable LIR on the central server.
- 6 If you enable LIR, add LIR mapping with the time type set to *rate*.
- 7 Verify that you have all the copy policies you need.
- 8 Configure the central server (manual edits to `trendtimer.sched` and `.pro` files).
- 9 Configure each satellite server (manual edits to `trendtimer.sched` and `.pro` files).

If you want local reporting, you need to deploy reports when you install the report pack on each satellite server, and you also need to allow summarizations to run on each satellite server. If you do not want local reporting, then you do not need to deploy reports when you install a report pack on a satellite server, and you can disable the scripts that run summarizations on each satellite server.

Before Location Independent Reporting (LIR) was available, our recommendation to anyone setting up a distributed system was to deploy reports on satellite servers, keep rate data on satellite servers, copy hourly data to the central server, and disable summarizations above the hourly level on satellite servers. This approach had two benefits. It kept a lot of rate data off the network, and it decreased the processing load on the central server. The problem with this approach is that the central server could not display a Near Real Time (NRT) report. The only NRT report was a local NRT report, on a satellite server.

LIR fixes this problem. If you enable LIR, you can open an NRT report on the central server and drill-down on table selections. The selections you make cause the central server to query a satellite server for locally aggregated data. Of course, if you would rather copy rate data to the central server, you can. If you do, then enabling LIR is not necessary.

Interface Reporting now comes with a copy policy import file. When you install Interface Reporting, PI uses this file to generate copy policies. Creating these policies yourself, using the Management Console, is no longer necessary. Your only task is to verify that you have copy policies for the following tables:

- SD_OVO_SRVLOG
- SH_OVO_MSG
- R_OVO_CONFIG_BASE
- SH_OVO_ACT

Because you are likely to have multiple satellite servers, we designed the hourly process files to be satellite-server friendly. This means that most of the time, most of the defaults are correct. But some defaults will be incorrect, or less than optimal, and to improve performance, you should change them. These manual edits, as well as the other steps listed above, are spelled out in detail in this chapter.

Verifying Correct Package Installation

Verify that you have the right packages installed on each server.

Packages on the Central Server

- OVO Report Pack, with reports deployed
- Common Property Tables, with forms deployed

Packages on Each Satellite Server

- OVO Report Pack
- Common Property Tables
- OVO Datapipe

Typically, the central server does not poll. If you want the central server in your system to poll, install a datapipe on the central server. If you want to view reports on satellite servers (local reporting) accept the Deploy Reports option when you install report packs at each satellite server. If central server reporting is the only reporting you want, you do not need to deploy reports and forms when you install report packs at satellite servers.

Configuring the Central Server

To configure the central server, perform the following tasks:

- Task 1: Register the satellite server by setting the database role
- Task 2: If you are not copying rate data to the central server, enable LIR
- Task 3: If you enable LIR, add LIR mappings

- Task 4: Verify the automatically generated copy policies
- Task 5: Edit trendtimer.sched and multiple process files

For more information about LIR and copy policies, refer to the *HP Performance Insight Administration Guide*.

Task 1: Register the satellite server by setting the database role

Follow these steps to register a satellite server:

- 1 Start the Management Console (log on with Administrator privileges).
- 2 Click the **Systems** icon in the navigation pane.
- 3 Navigate to the OVPI Databases folder and select the database system.
- 4 Click **Database Properties**.
- 5 From the Database Role list, select the Satellite Server role.
- 6 Enter any information necessary to configure the Satellite Server role.



To add a new database reference, you can use the Add Database Reference Wizard in the System and Network Administration application.

Task 2: Enable LIR

Follow these steps to enable LIR:

- 1 Start the Management Console (log on with Administrator privileges).
- 2 Click the **Systems** icon in the navigation pane.
- 3 Navigate to the OVPI Databases folder and select the central server.
- 4 Click **LIR Configuration**.
- 5 Select the **LIR enabled** check box.

Task 3: Add LIR mappings

Follow these steps to configure LIR mappings:

- 1 Start the Management Console (log on with Administrator privileges).
- 2 Click the **Systems** icon in the navigation pane.
- 3 Navigate to the OVPI Databases folder and select the central server.
- 4 Click **LIR Configuration**.
- 5 Click **Add Mapping**.
- 6 From the Select Satellite Server list, select a satellite server to which to add a mapping.
- 7 Select the **Category** data table option.
- 8 Select **OVO** from the drop down list.
- 9 Select the **rate** data type.
- 10 Click **Add to List**.
- 11 Click **OK**.
- 12 Click **Apply**.

A copy policy is automatically generated for the hourly data and for each LIR mapping that you add. The data type you select determines the type of data copied. The type of data copied (defined in the generated copy policy) is one summarization level greater than the data type selected in the LIR mapping. For example, if you select an hourly data type, you will generate a daily data copy policy.

Task 4: [Verify the automatically generated copy policies](#)

Verify that a copy policy has been generated for the following tables and that the copy type is set correctly (to Property and Data):

- 1 Start the Management Console (log on with Administrator privileges).
- 2 Click the **Copy Policy** icon in the navigation pane to start the Copy Policy Manager.
- 3 The following tables should appear in the copy policy list:
 - SD_OVO_SRVLOG
 - SH_OVO_MSG
 - R_OVO_CONFIG_BASE
 - SH_OVO_ACT

For each table, verify that copy type is set to Property and Data.

- 4 If a copy policy has not been generated for any of the tables listed above, click the **New Copy Policy** icon or select **File > New Copy Policy** from the Copy Policy Manager. The Copy Policy Wizard opens.
- 5 Click **Next**. The Satellite Server and Copy Policy Selection Page opens.
- 6 Select a satellite server from the pull down list. This is the satellite server from which data is copied to the central server.
- 7 Select **Single Table** and select the table from the pull down list.
- 8 Click **Next**. The Copy Type Selection Page opens.
- 9 Select **Property and Data**.
- 10 Click **Next**. The Summary page opens.
- 11 Verify the information in the summary window. If the information is not correct, you can modify it by clicking **Back**.
- 12 Click **Finish**.
- 13 Repeat [step 4](#) - [step 12](#) for all missing tables.

If only the copy type is not set to Property and Data, do the following:

- 1 Double-click the copy policy.
- 2 Select the **Property and Data** copy type.
- 3 Click **OK**.

Task 5: [Edit trendtimer.sched and multiple process files.](#)

- 1 Change the trendtimer.sched file located in {DPIPE_HOME}/lib for the central server from this:

```
## 24:00+8:00 - - {DPIPE_HOME}/bin/trend_proc -f {DPIPE_HOME}/scripts/  
Daily_OVO_Rollup.pro
```


to this:

```
## 24:00+9:00 - - {DPIPE_HOME}/bin/trend_proc -f {DPIPE_HOME}/scripts/  
Daily_OVO_Rollup.pro
```

- 2 Edit the `Daily_OVO_MSG_Rollup.pro` file:
 - Comment out block 1,
- 3 Edit the `Daily_OVO_ACT_Rollup.pro` file:
 - Comment block 1,
- 4 Edit the `Daily_OVO_SRVLOG_Rollup.pro` file:
 - Comment out block 1,
- 5 Edit the `Daily_OVO_CONFIG_Rollup.pro` file:
 - Comment out block2,

Configuring Satellite Servers

Configure each satellite server by enabling copy commands that are disabled by default. Once the copy commands are enabled, the central server will handle the summarizations. The copy commands appear in hourly process files in the Scripts directory. Make the following changes to four process files:

- 1 Open the `Daily_OVO_MSG_Rollup.pro` file:
 - a Uncomment block 2
 - b Comment out block 3
 - c Change block 2 to

```
begin: block2 wait  
{DPIPE_HOME}/bin/trendcopy -t SH_OVO_MSG  
{DPIPE_HOME}/bin/trendcopy -t R_OVO_MSG_LOOKUP_D  
{DPIPE_HOME}/bin/trendcopy -t R_OVO_MSG_LOOKUP_S  
{DPIPE_HOME}/bin/trendcopy -t R_OVO_MSG_LOOKUP_A  
{DPIPE_HOME}/bin/trendcopy -t R_OVO_MSG_BASE  
{DPIPE_HOME}/bin/trendcopy -t SD_OVO_MSG  
end: block2
```

- 2 Open the `Daily_OVO_ACT_Rollup.pro` file:
 - a Uncomment block 2
 - b Comment out block 3
 - c Change block 2 to:

```
begin: block2 wait  
{DPIPE_HOME}/bin/trendcopy -t SH_OVO_ACT  
{DPIPE_HOME}/bin/trendcopy -t R_OVO_ACT_BASE  
end: block2
```

- 3 Open the Daily_OVO_SRVLOG_Rollup.pro file:
 - a Uncomment block 2
 - b Comment out block 3
- 4 Open the Daily_OVO_CONFIG_Rollup.pro file:
 - Uncomment block 2

System Clocks

Make sure the system clock on each satellite server is synchronized with the system clock on the central server.

5 Active Message Reports

The following reports contain information about current unacknowledged messages.

1. OVO Server Summary (see sample page 41)

Provides total number of messages and severity details for each management server; for a selected management server, provides statistics for severity, age, and duplicates daily, weekly and monthly.

2. Message Severity Trend by All Messages (see sample page 43)

Provides a summary of all messages across all management servers by severity; includes statistics for message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

3. Message Severity Trend by Application

A list of 15 applications with the most associated messages; includes the following details for the selected application: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

4. Message Severity Trend by Message Group

A list of 15 message groups with the most associated messages; includes the following details for a selected message group: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

5. Message Severity Trend by Node and Service

A list of 15 nodes, and corresponding services running on those nodes, with the most associated messages; includes the following details for a selected node and service pair: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

6. Message Severity Trend by Server

A list of 15 management servers that have the most associated messages, with the following details for a selected Operations management server: message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

7. Message Severity by Server and Application

A list of 15 management servers, and corresponding applications being managed by those servers, that have the most associated messages; include the following details for a selected management server and application pair: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

8. Message Severity by Server and Message

A list of 15 management servers, and corresponding message groups being monitored by those servers, that have the most associated messages; includes the following details for a selected management server and message group pair: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

9. Message Severity by Server and Node

A list of the 15 management servers, and corresponding nodes being managed by those servers, that have the most associated messages; includes the following details for a selected management server and node pair: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

10. Message Severity by Server and Service

A list of 15 management servers, and corresponding services being managed by those servers, that have the most associated messages; includes the following details for a selected management server and service pair: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

11. Message Severity by Server, Node and Application

A list of 15 management servers, and corresponding nodes and applications on those nodes, that have the most associated messages; includes the following details for a selected management server, node and application: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

12. Message Severity by Server, Node, and Message Group

A list of 15 management servers, and corresponding nodes and message groups from those nodes, that have the most associated messages; includes the following details for a selected management server, node and message count threesome: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

13. Message Severity by Server, Node, and Service

A list of 15 management servers, and corresponding nodes and services on those nodes, that have the most associated messages; includes the following details for a selected management server, node and service threesome: Message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

14. Message Severity by Service

A list of 15 services that have the most associated messages; for a selected service, includes statistics for message age, severity, volume, duplicates, and special flag counts hourly, daily, weekly and monthly.

OV Operations

Active Message Trends OVO Server Summary



Daily Message Severity by Server

Mon, Jul 9, 2007

Server	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
ovpihpt5	7	1	0	0	5	1	0	0

[Daily](#)
[Weekly](#)
[Monthly](#)

Daily Message Severity

ovpihpt5

Mon, Jul 9, 2007

- (8.5%) Critical
- (3.11%) Major
- (5.13%) Minor
- (74.6%) Warning
- (8.64%) Normal
- (0.0%) Unknown

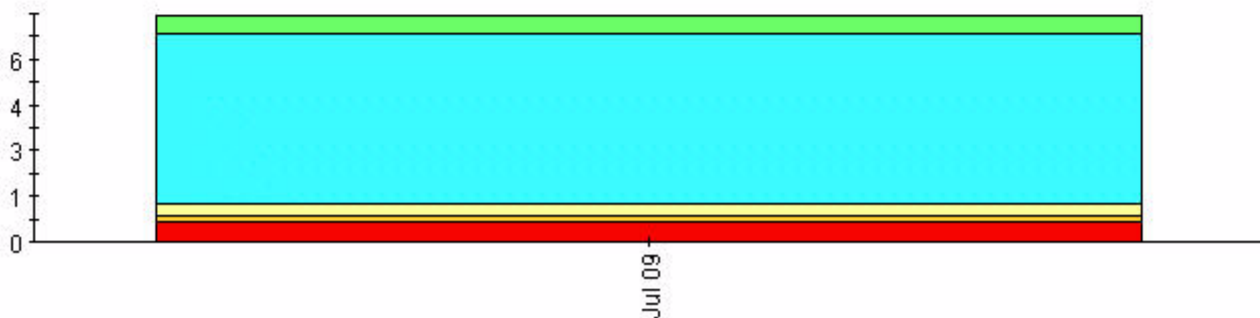


[Daily](#)
[Weekly](#)
[Monthly](#)

Daily Message Severity

ovpihpt5

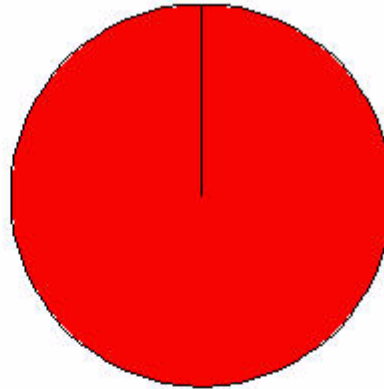
Mon, Jul 9, 2007 - Mon, Jul 9, 2007



- Critical
- Major
- Minor
- Warning
- Normal
- Unknown

Mon, Jul 9, 2007

- (0.0%) < 5 min
- (0.0%) 5 - 10 min
- (0.0%) 10 - 30 min
- (0.0%) 30 - 60 min
- (0.0%) 1 - 2 hours
- (0.0%) 2 - 12 hours
- (0.0%) 12 - 24 hours
- (100.0%) > 24 hours



Daily

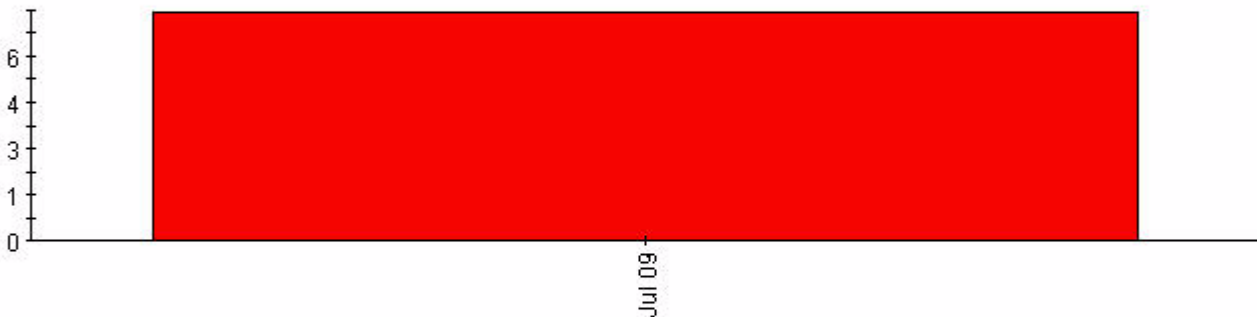
[Weekly](#)

[Monthly](#)

Daily Message Age

ovpihpt5

Mon, Jul 9, 2007 - Mon, Jul 9, 2007



- < 5 min
- 5 - 10 min
- 10 - 30 min
- 30 - 60 min
- 1 - 2 hours
- 2 - 12 hours
- 12 - 24 hours
- > 24 hours

Daily

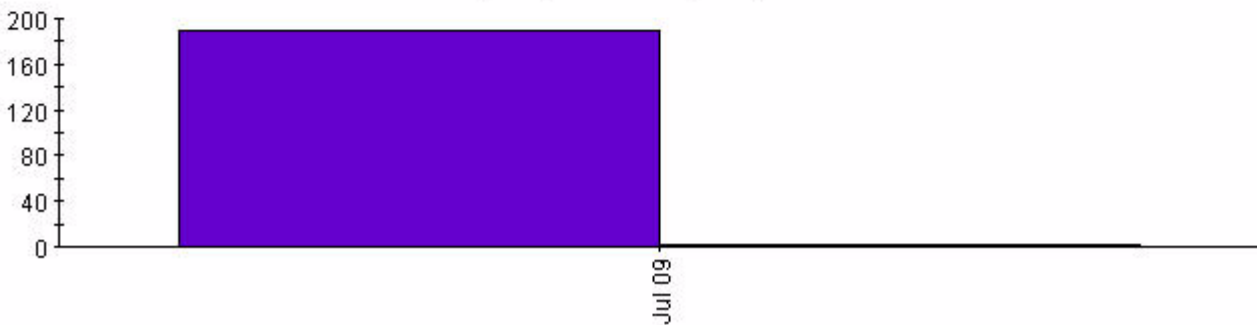
[Weekly](#)

[Monthly](#)

Daily Message Duplicates

ovpihpt5

Mon, Jul 9, 2007 - Mon, Jul 9, 2007



- Duplicate Count
- Messages Duplicated

OV Operations

Active Message Trend by All Messages



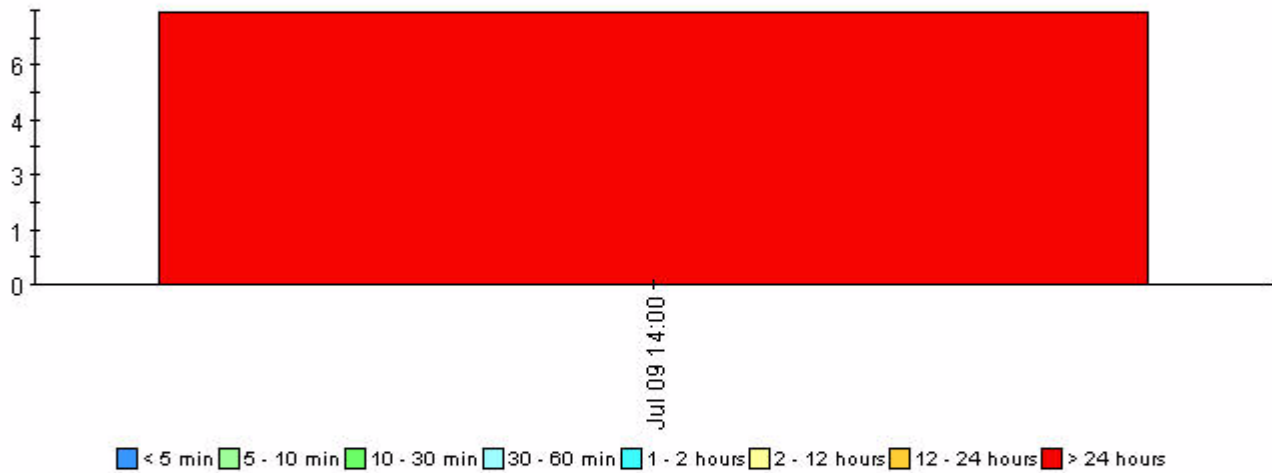
Daily Message Severity by All Messages

Mon, Jul 9, 2007

Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
7	1	0	0	5	1	0	0

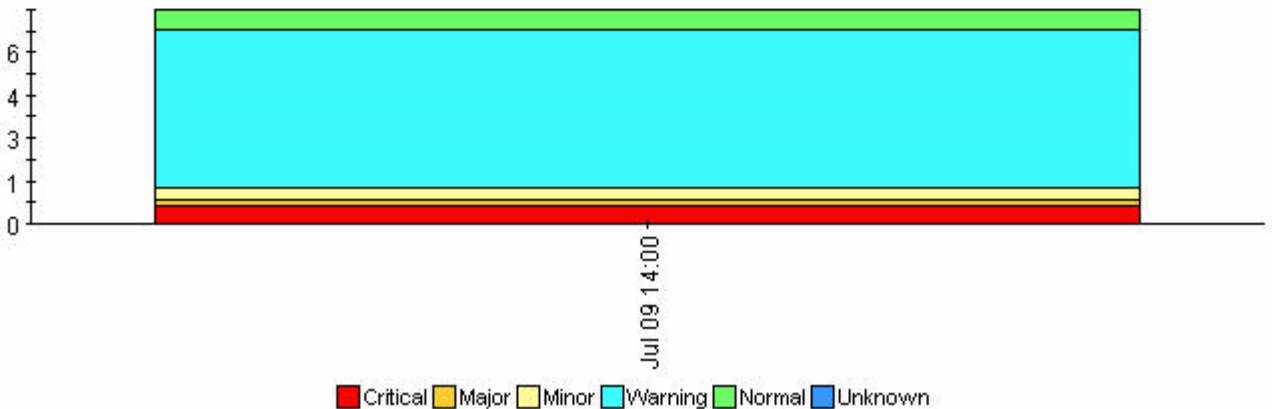
Hourly [Daily](#) [Weekly](#) [Monthly](#)

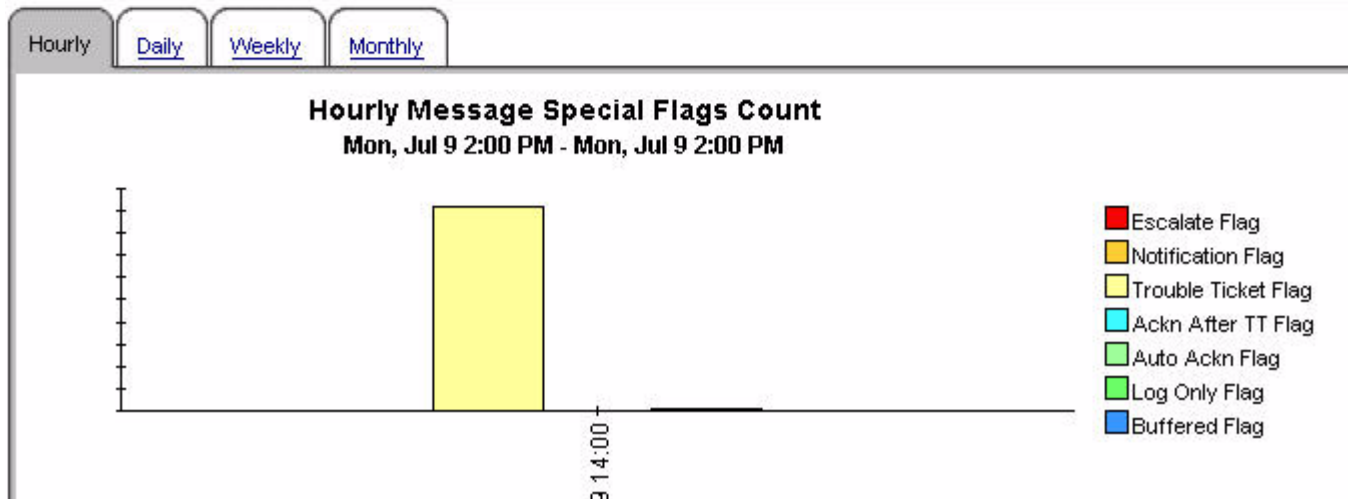
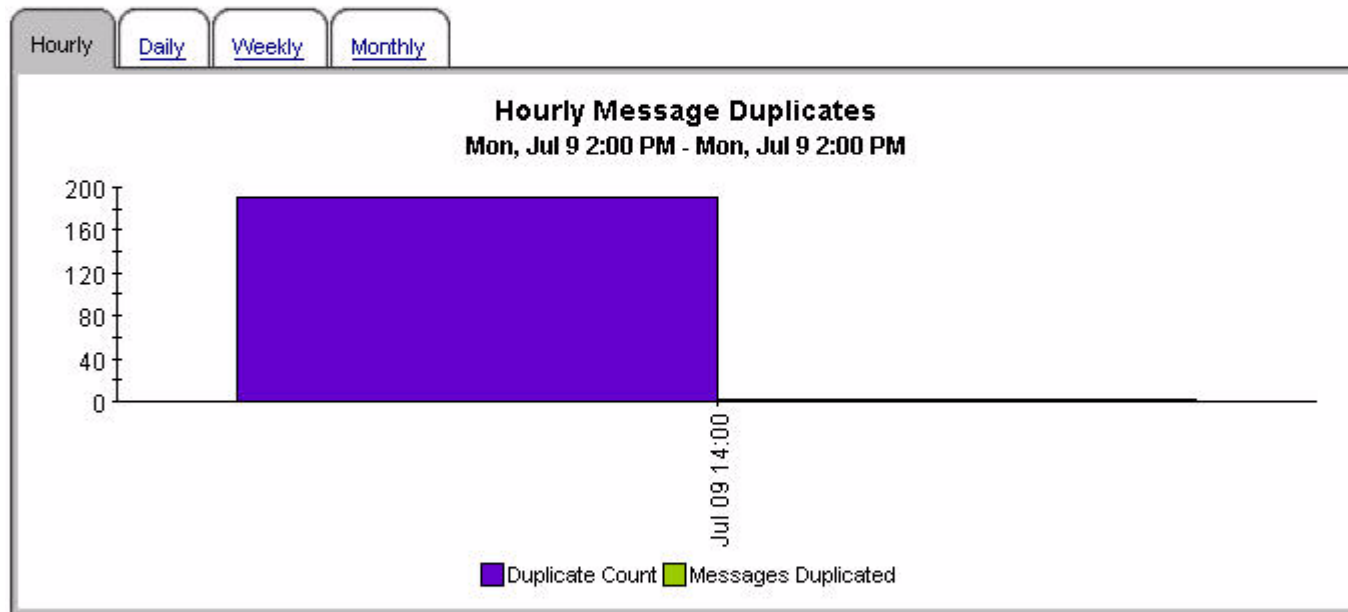
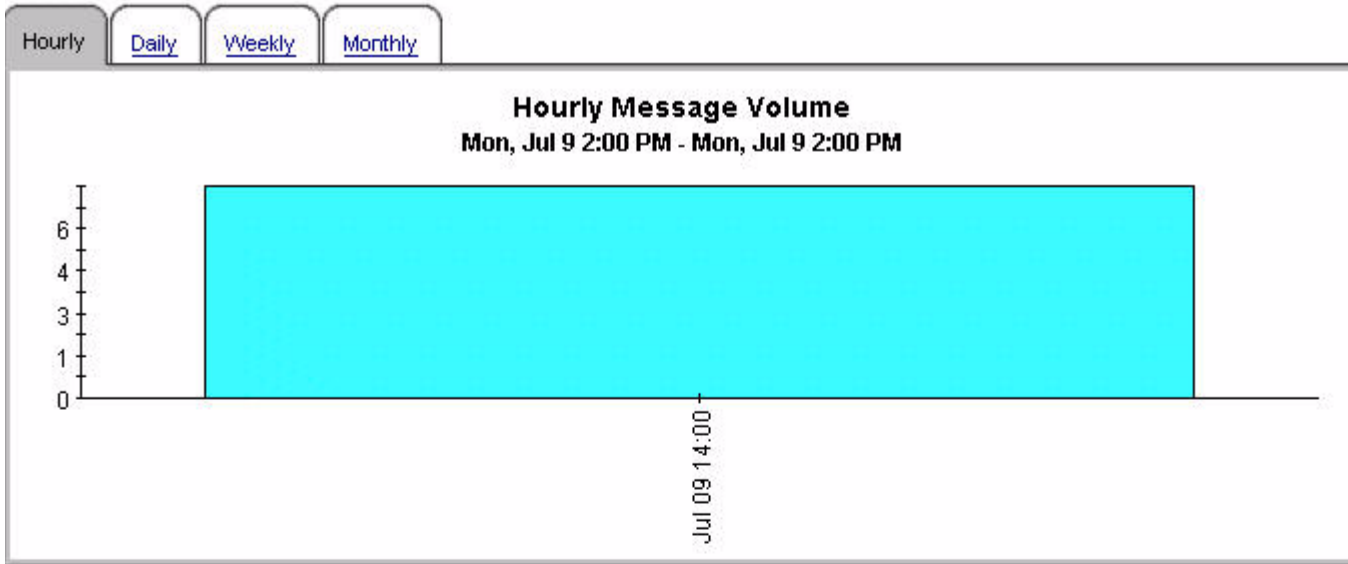
Hourly Message Age Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM





OV Operations



Active Message Trend by All Messages

Daily Message Severity by All Messages

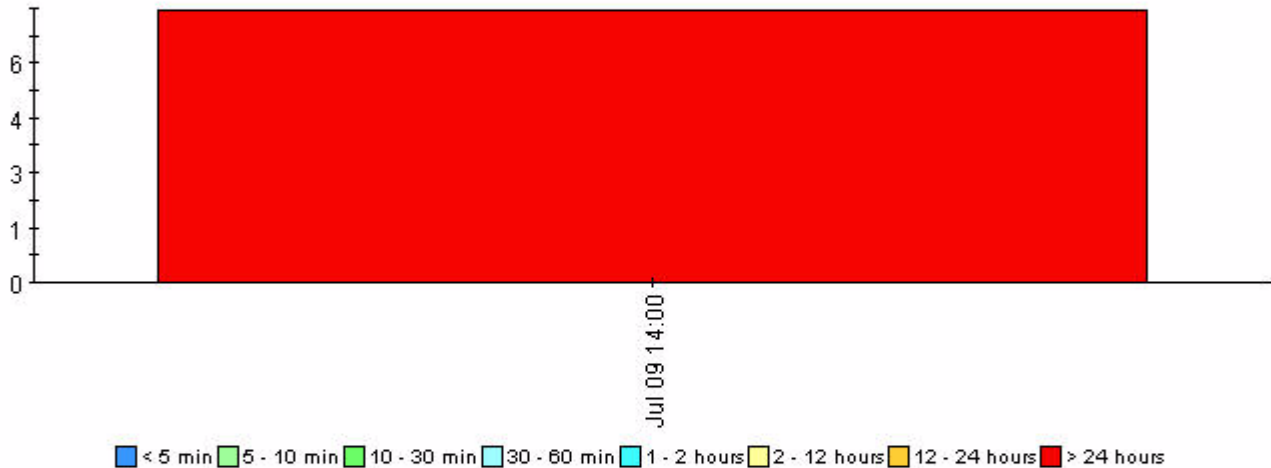
Mon, Jul 9, 2007

Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
7	1	0	0	5	1	0	0

- Hourly
- [Daily](#)
- [Weekly](#)
- [Monthly](#)

Hourly Message Age

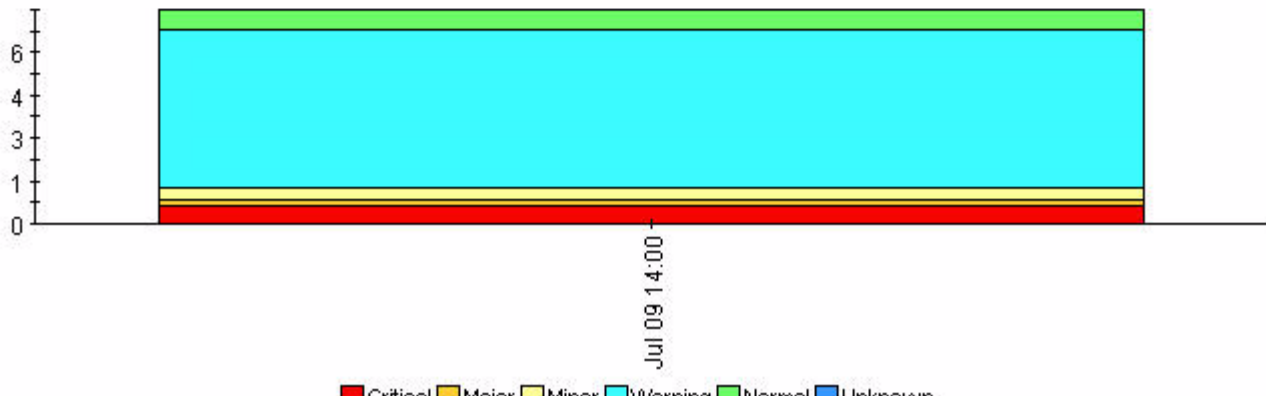
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



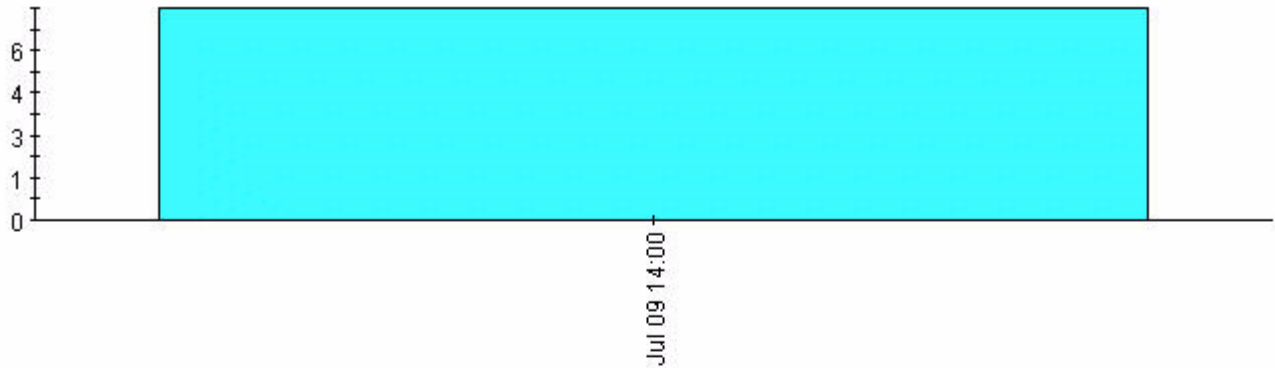
- Hourly
- [Daily](#)
- [Weekly](#)
- [Monthly](#)

Hourly Message Severity

Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly Message Volume
 Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



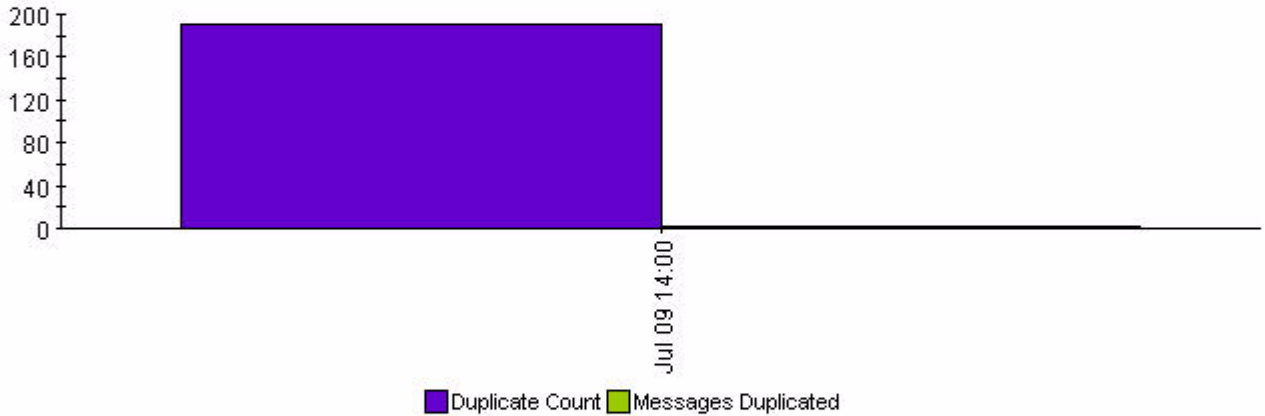
Hourly

[Daily](#)

[Weekly](#)

[Monthly](#)

Hourly Message Duplicates
 Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



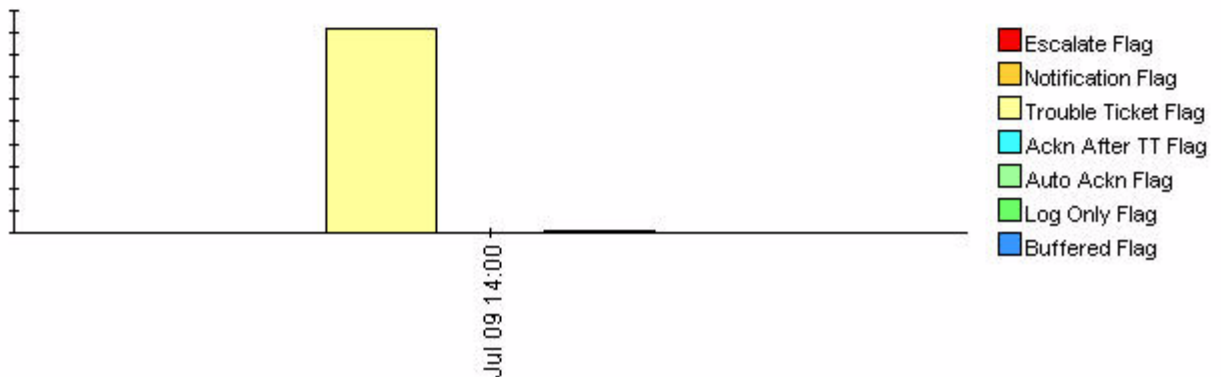
Hourly

[Daily](#)

[Weekly](#)

[Monthly](#)

Hourly Message Special Flags Count
 Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



OV Operations

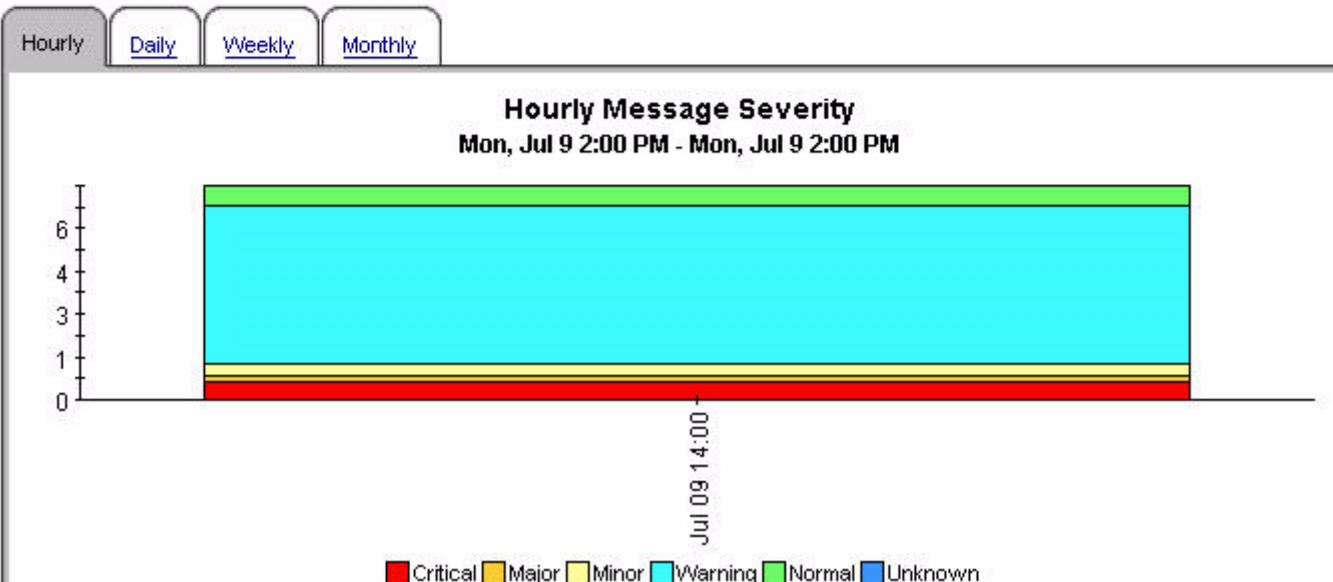
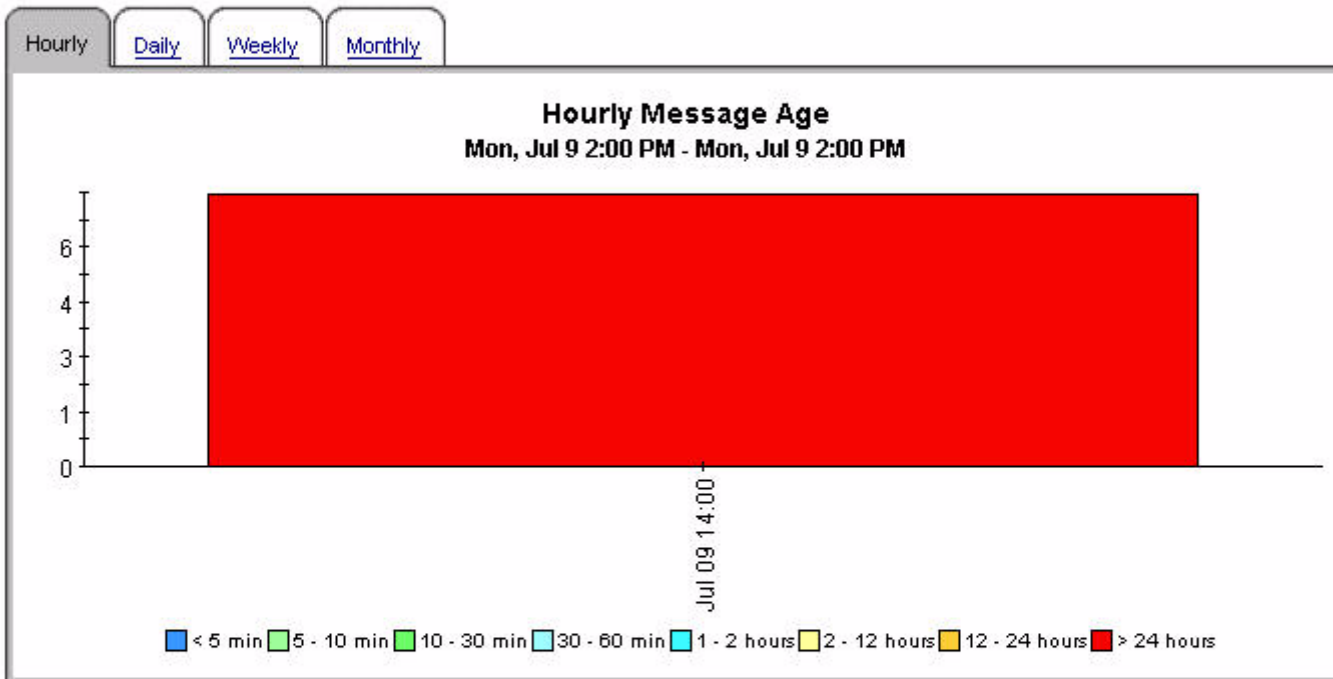


Active Message Trend by All Messages

Daily Message Severity by All Messages

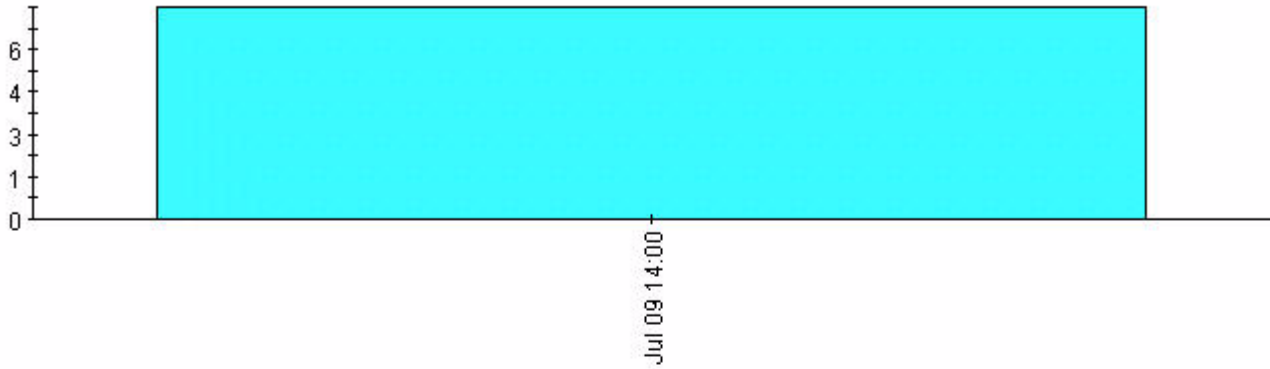
Mon, Jul 9, 2007

Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
7	1	0	0	5	1	0	0



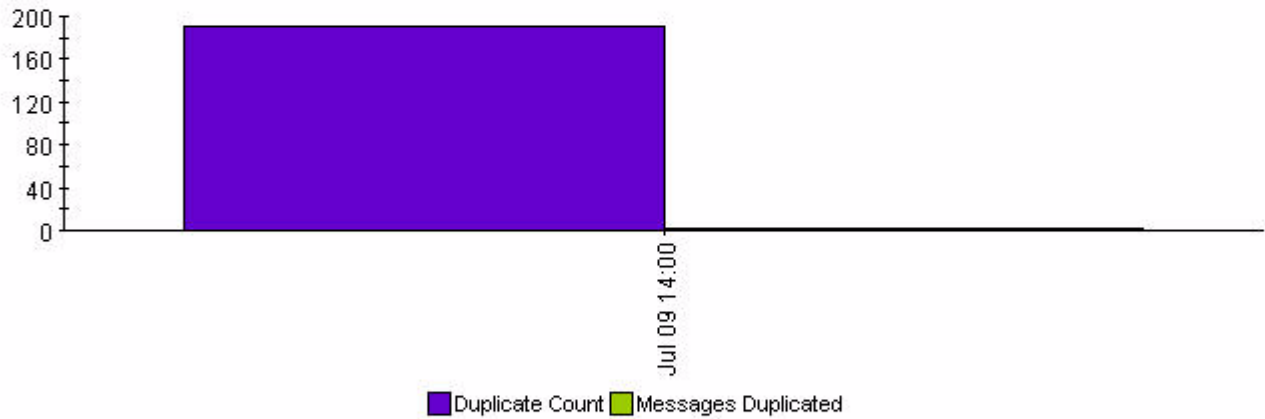
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



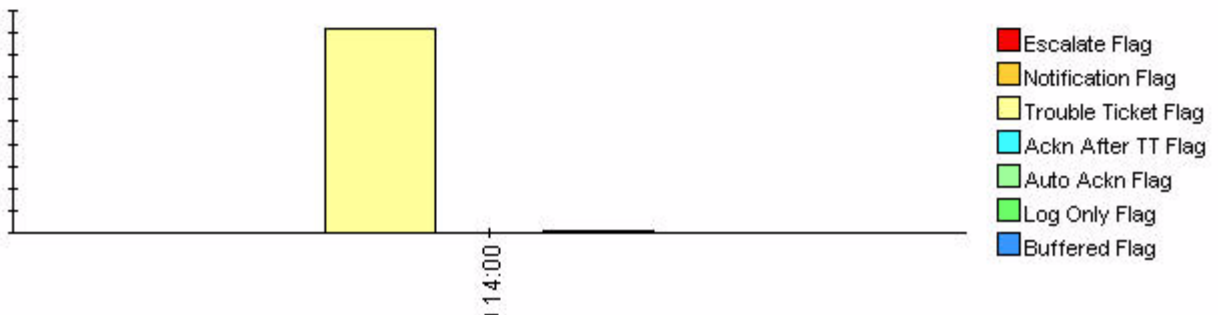
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Special Flags Count
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



OV Operations

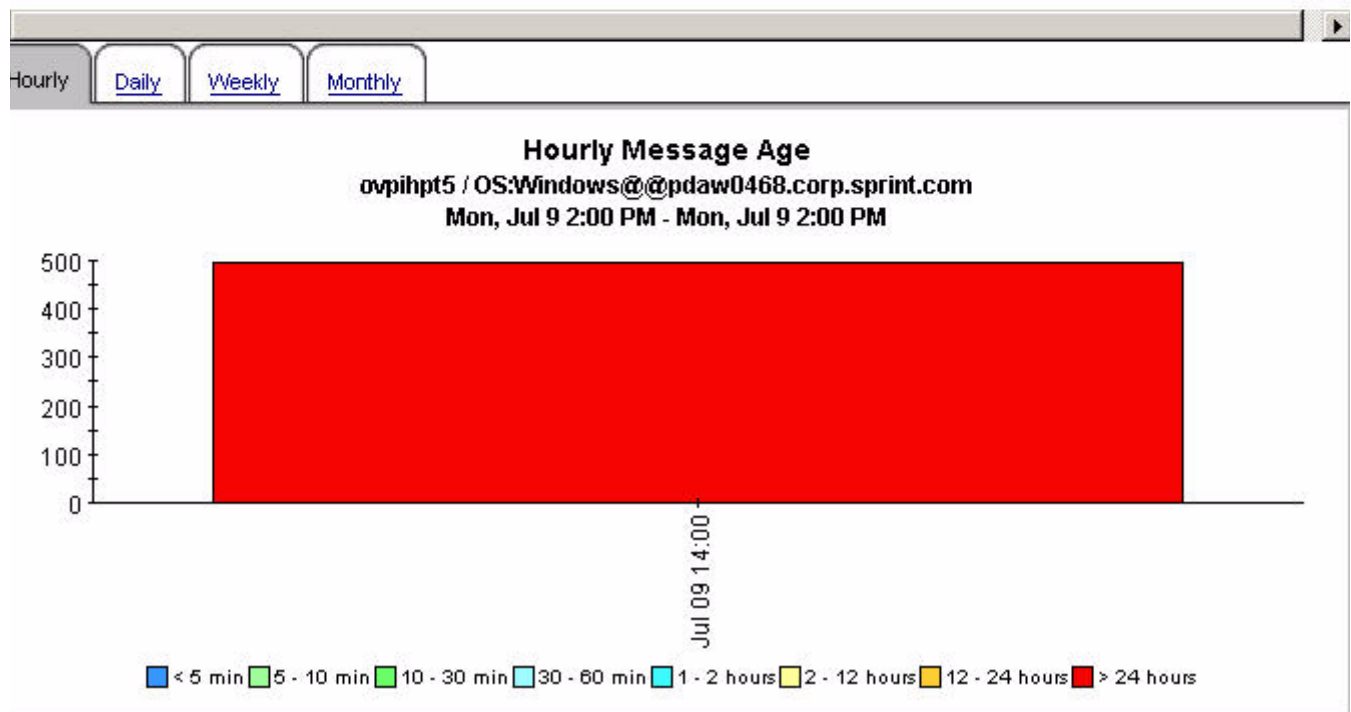
Active Message Trend Top 15 by Server and Service

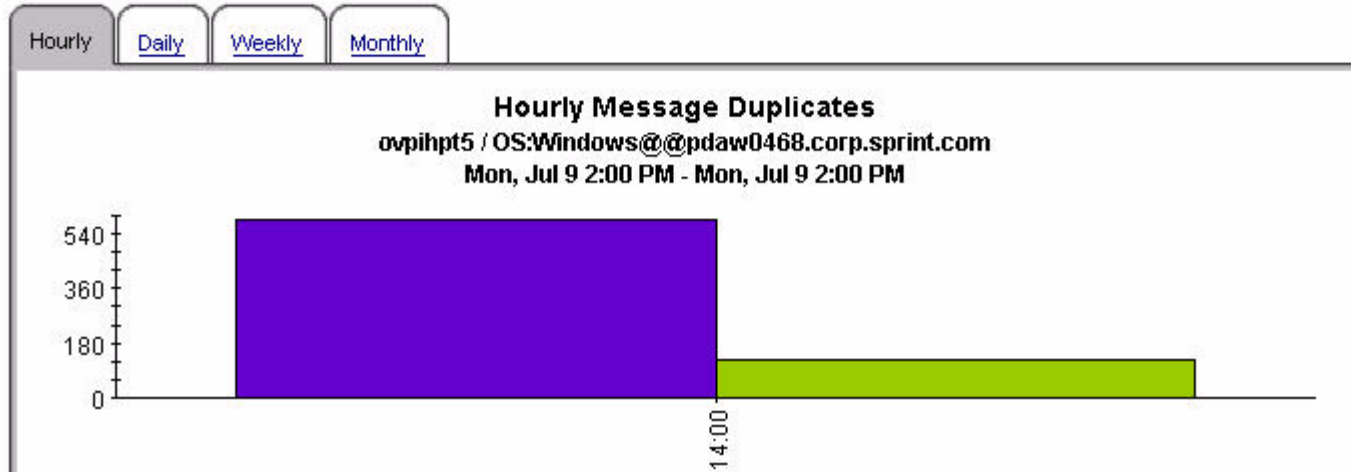
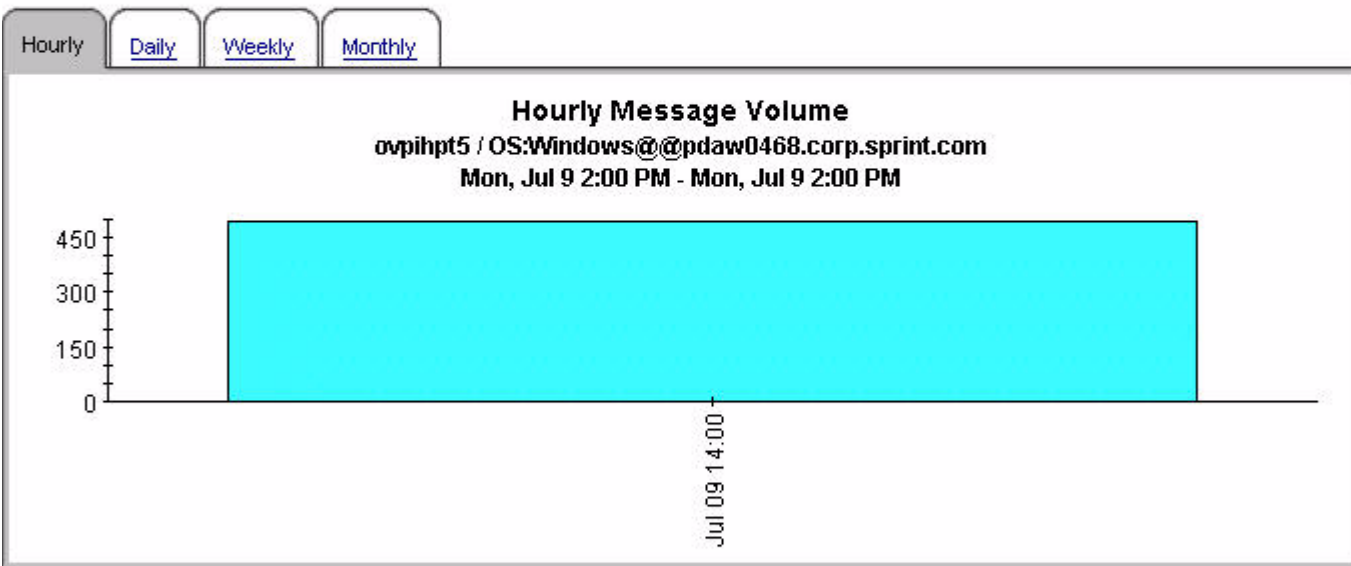
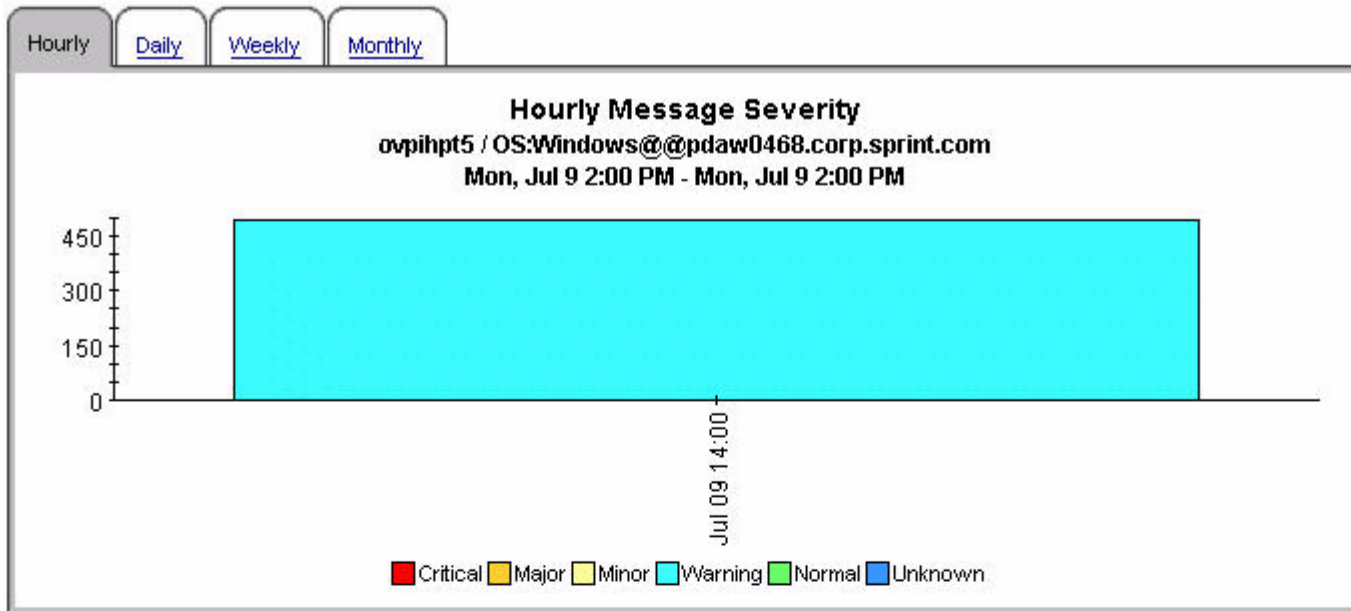


Daily Message Severity Top 15 by Server and Service

Mon, Jul 9, 2007

Server	Service	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalated
ovpihpt5	OS:Windows@@pdaw0468.corp.sprint.com	496	0	0	0	496	0	0	0
ovpihpt5	OS:Windows@@plsw0472.corp.sprint.com	242	0	0	0	242	0	0	0
ovpihpt5	OS:Windows@@plsw0470.corp.sprint.com	232	0	0	0	232	0	0	0
ovpihpt5	OS:Windows@@prew0478.corp.sprint.com	177	0	0	0	177	0	0	0
ovpihpt5	OS:Windows@@pksw0466.corp.sprint.com	163	0	0	0	163	0	0	0
ovpihpt5	OS:Windows@@plsw0464.corp.sprint.com	126	0	0	0	126	0	0	0
ovpihpt5	SNMPTraps:SNMP@@plsw0470.corp.sprint.com	53	2	0	0	51	0	0	0
ovpihpt5	SNMPTraps:SNMP@@pdaw0468.corp.sprint.com	48	1	1	0	46	0	0	0
ovpihpt5	SNMPTraps:SNMP@@plsw0472.corp.sprint.com	43	1	0	0	42	0	0	0
ovpihpt5	SNMPTraps:SNMP@@plse0138.corp.sprint.com	32	16	0	0	0	16	0	0
ovpihpt5	SNMPTraps:SNMP@@prew0478.corp.sprint.com	14	2	1	0	11	0	0	0
ovpihpt5	OS:AIX@@ddaa0640.dev.sprint.com	12	0	12	0	0	0	0	0
ovpihpt5	APP:2DS@@plsw0485.corp.sprint.com	10	0	5	0	0	5	0	0
ovpihpt5	SNMPTraps:clear@@geosprpcolgra	9	0	0	0	0	9	0	0
ovpihpt5	Batch-Prod	9	0	0	9	0	0	0	0





OV Operations

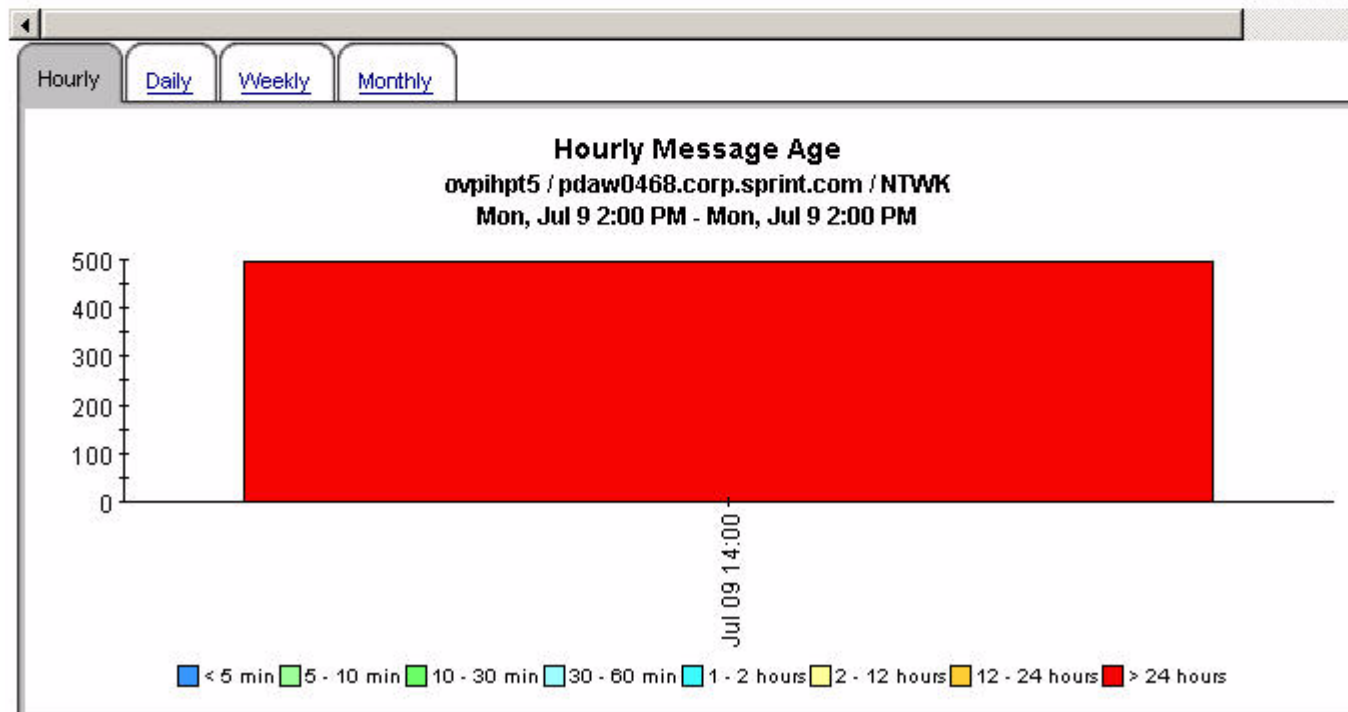


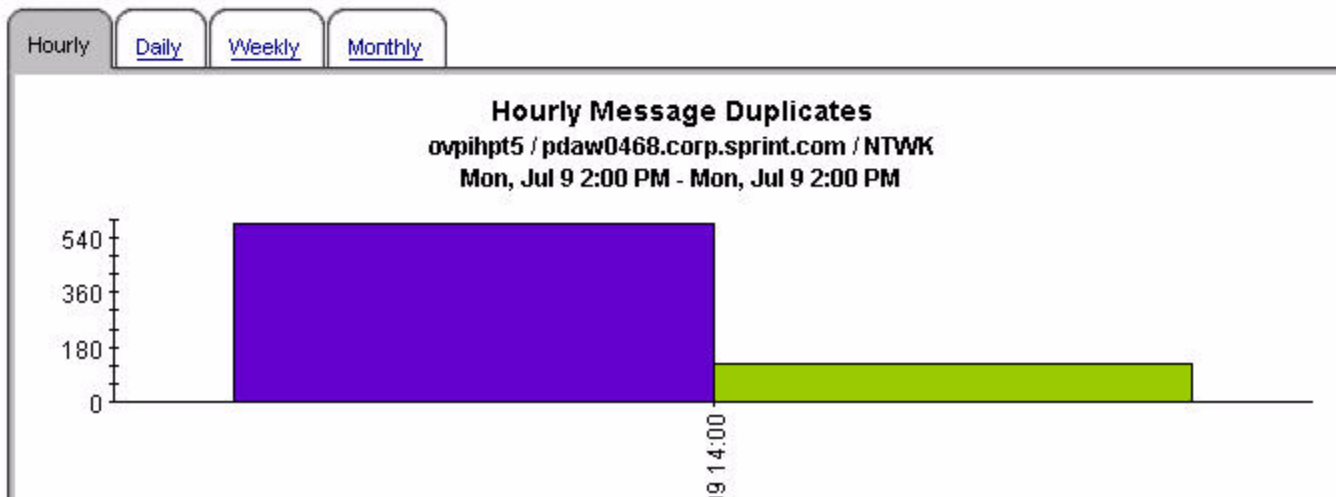
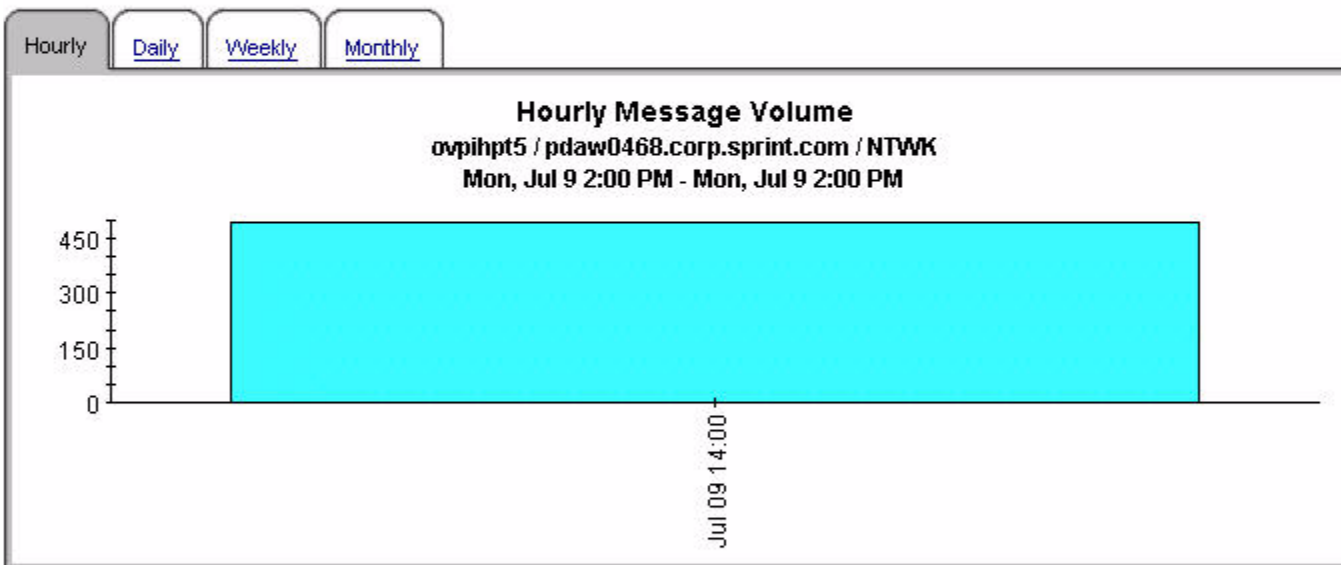
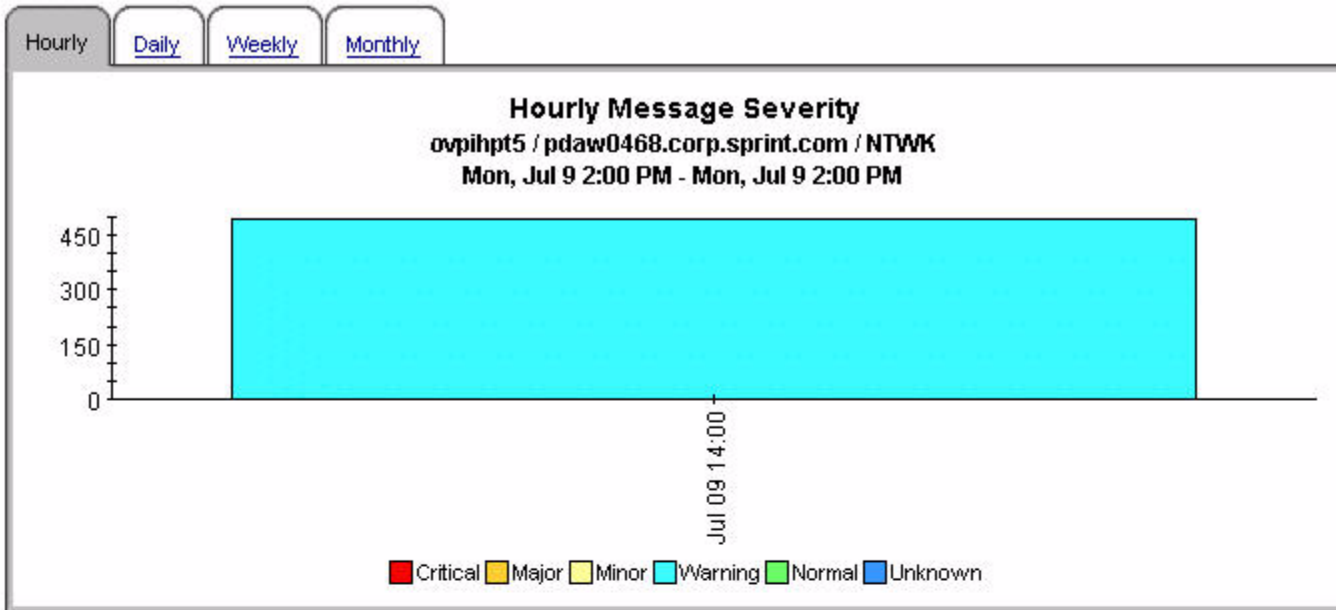
Active Message Trend Top 15 by Server, Node and Application

Daily Message Severity Top 15 by Server, Node and Application

Mon, Jul 9, 2007

Server	Node	Application	Message Count	Critical	Major	Minor	Warning	Normal	Unkn
ovpihpt5	pdaw0468.corp.sprint.com	NTWK	496	0	0	0	496	0	0
ovpihpt5	plsw0472.corp.sprint.com	NTWK	242	0	0	0	242	0	0
ovpihpt5	plsw0470.corp.sprint.com	NTWK	232	0	0	0	232	0	0
ovpihpt5	prew0478.corp.sprint.com	NTWK	177	0	0	0	177	0	0
ovpihpt5	pksw0466.corp.sprint.com	NTWK	163	0	0	0	163	0	0
ovpihpt5	plsw0464.corp.sprint.com	NTWK	126	0	0	0	126	0	0
ovpihpt5	plsw0470.corp.sprint.com	SNMPTraps	53	2	0	0	51	0	0
ovpihpt5	pdaw0468.corp.sprint.com	SNMPTraps	48	1	1	0	46	0	0
ovpihpt5	dlsa0631.dev.sprint.com	HP OpenView Operations	46	20	0	0	25	1	0
ovpihpt5	tdaa0641.test.sprint.com	HP OpenView Operations	44	20	0	0	23	1	0
ovpihpt5	pkda0452.corp.sprint.com	HP OpenView Operations	43	0	0	0	43	0	0
ovpihpt5	plsw0472.corp.sprint.com	SNMPTraps	43	1	0	0	42	0	0
ovpihpt5	dlsa0630.dev.sprint.com	HP OpenView Operations	42	15	0	0	25	2	0
ovpihpt5	ksophea1ccms01.corp.sprint.com	SNMPTraps	38	0	0	0	0	38	0
ovpihpt5	s0zn0314.it.sprintspectrum.com	HP OpenView Operations	34	0	0	0	34	0	0





OV Operations



Active Message Trend Top 15 by Server, Node and Message Group

Daily Message Severity Top 15 by Server, Node and Message Group

Mon, Jul 9, 2007

Server	Node	Message Group	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
ovpihpt5	pdaw0468.corp.sprint.com	NNM_ENV	544	1	1	0	542	0	0	0
ovpihpt5	plsw0470.corp.sprint.com	NNM_ENV	285	2	0	0	283	0	0	0
ovpihpt5	plsw0472.corp.sprint.com	NNM_ENV	285	1	0	0	284	0	0	0
ovpihpt5	prew0478.corp.sprint.com	NNM_ENV	191	2	1	0	188	0	0	0
ovpihpt5	pksw0466.corp.sprint.com	NNM_ENV	170	0	1	0	169	0	0	0
ovpihpt5	plsw0464.corp.sprint.com	NNM_ENV	130	2	1	0	127	0	0	0
ovpihpt5	dlsa0631.dev.sprint.com	OpC	46	20	0	0	25	1	0	0
ovpihpt5	tdaa0641.test.sprint.com	OpC	44	20	0	0	23	1	0	0
ovpihpt5	pkda0452.corp.sprint.com	OpC	43	0	0	0	43	0	0	0
ovpihpt5	dlsa0630.dev.sprint.com	OpC	42	15	0	0	25	2	0	0
ovpihpt5	ksophea1ccms01.corp.sprint.com	VOIP	38	0	0	0	0	38	0	0
ovpihpt5	s0zn0314.it.sprintspectrum.com	OpC	34	0	0	0	34	0	0	0
ovpihpt5	plse0138.corp.sprint.com	MUX	32	16	0	0	0	16	0	0
ovpihpt5	jes21.corp.sprint.com	Control-M	29	0	0	29	0	0	0	0
ovpihpt5	ohctid01.corp.sprint.com	OpC	25	0	0	0	24	1	0	0

Hourly

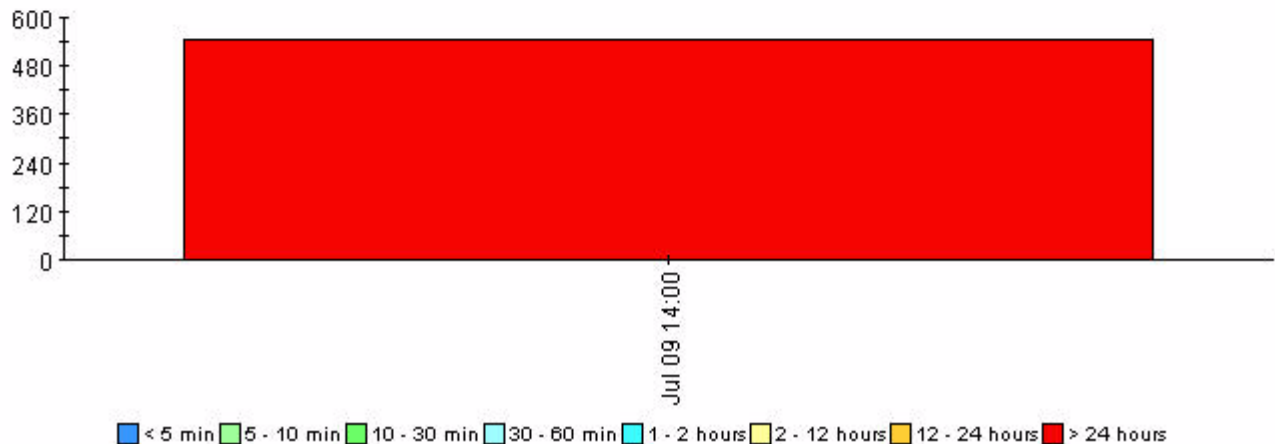
Daily

Weekly

Monthly

Hourly Message Age

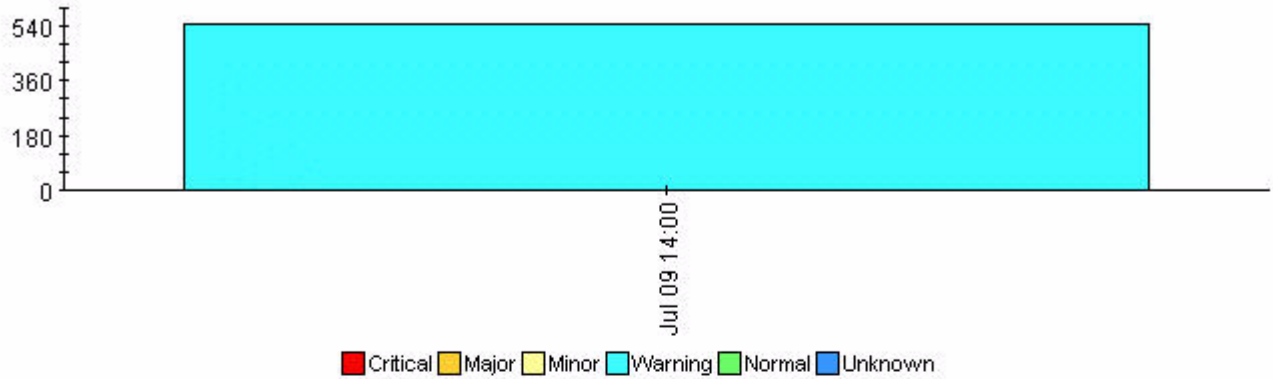
ovpihpt5 / pdaw0468.corp.sprint.com / NNM_ENV
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity

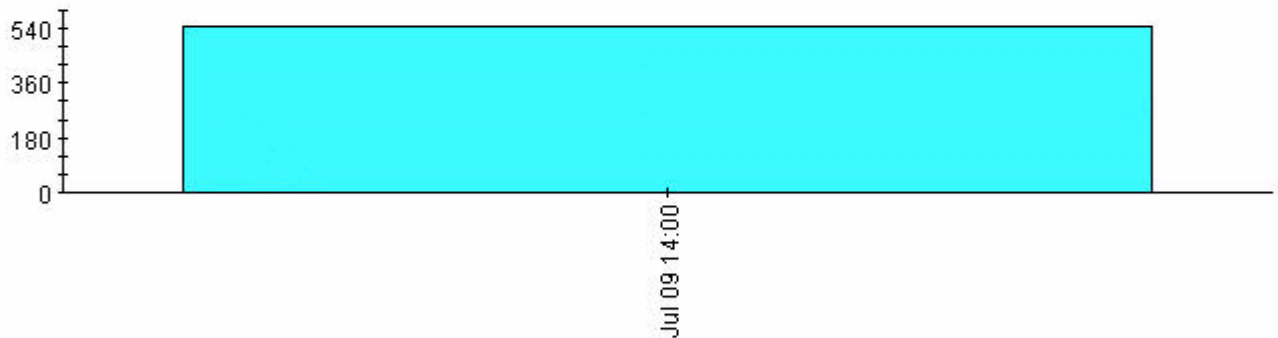
ovpihpt5 / pdaw0468.corp.sprint.com / NNM_ENV
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume

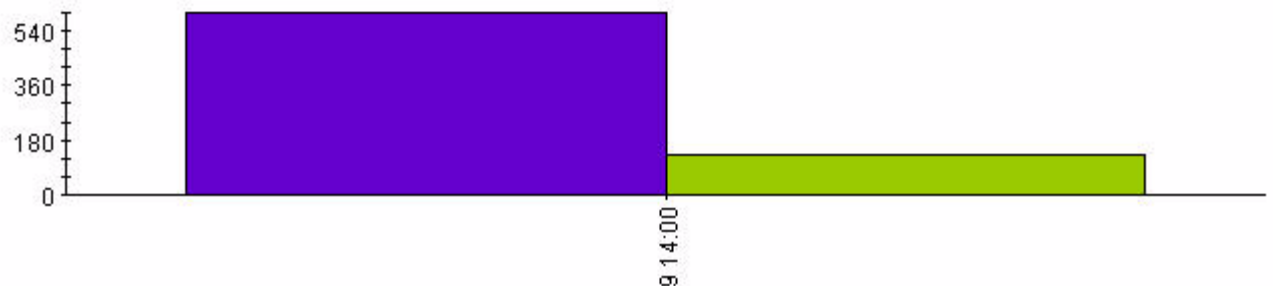
ovpihpt5 / pdaw0468.corp.sprint.com / NNM_ENV
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates

ovpihpt5 / pdaw0468.corp.sprint.com / NNM_ENV
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



OV Operations



Active Message Trend Top 15 by Service

Daily Message Severity Top 15 by Service

Mon, Jul 9, 2007

Service	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
OS:Windows@@pdaw0468.corp.sprint.com	496	0	0	0	496	0	0	0
OS:Windows@@plsw0472.corp.sprint.com	242	0	0	0	242	0	0	0
OS:Windows@@plsw0470.corp.sprint.com	232	0	0	0	232	0	0	0
OS:Windows@@prew0478.corp.sprint.com	177	0	0	0	177	0	0	0
OS:Windows@@pksw0466.corp.sprint.com	163	0	0	0	163	0	0	0
OS:Windows@@plsw0464.corp.sprint.com	126	0	0	0	126	0	0	0
SNMPTraps:SNMP@@plsw0470.corp.sprint.com	53	2	0	0	51	0	0	0
SNMPTraps:SNMP@@pdaw0468.corp.sprint.com	48	1	1	0	46	0	0	0
SNMPTraps:SNMP@@plsw0472.corp.sprint.com	43	1	0	0	42	0	0	0
SNMPTraps:<\$2>@@plse0138.corp.sprint.com	32	16	0	0	0	16	0	0
SNMPTraps:SNMP@@prew0478.corp.sprint.com	14	2	1	0	11	0	0	0
OS:AIX@@ddaa0640.dev.sprint.com	12	0	12	0	0	0	0	0
APP:2DS@@plsw0485.corp.sprint.com	10	0	5	0	0	5	0	0
SNMPTraps:clear@@geosprclgra	9	0	0	0	0	9	0	0
Batch-Prod	9	0	0	9	0	0	0	0

Hourly

[Daily](#)

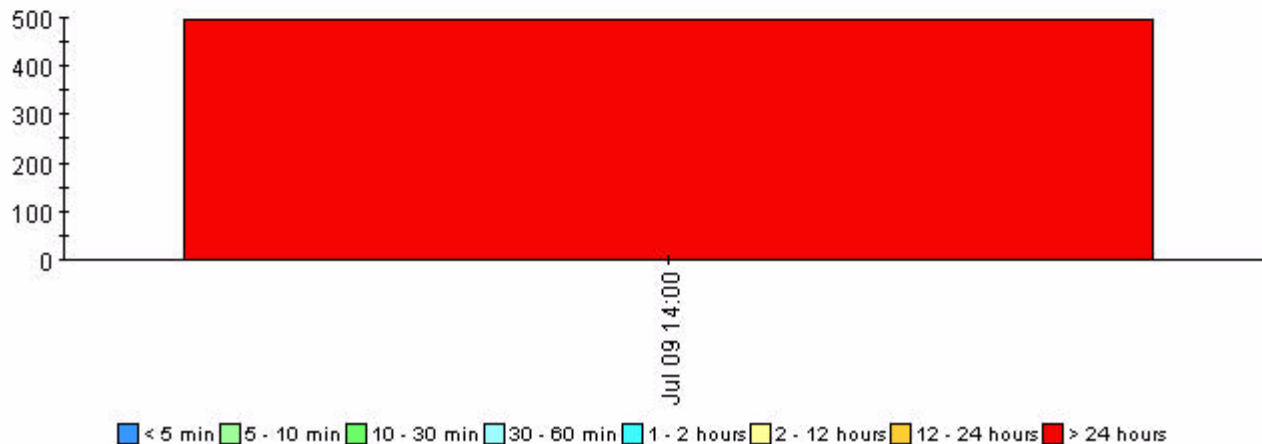
[Weekly](#)

[Monthly](#)

Hourly Message Age

OS:Windows@@pdaw0468.corp.sprint.com

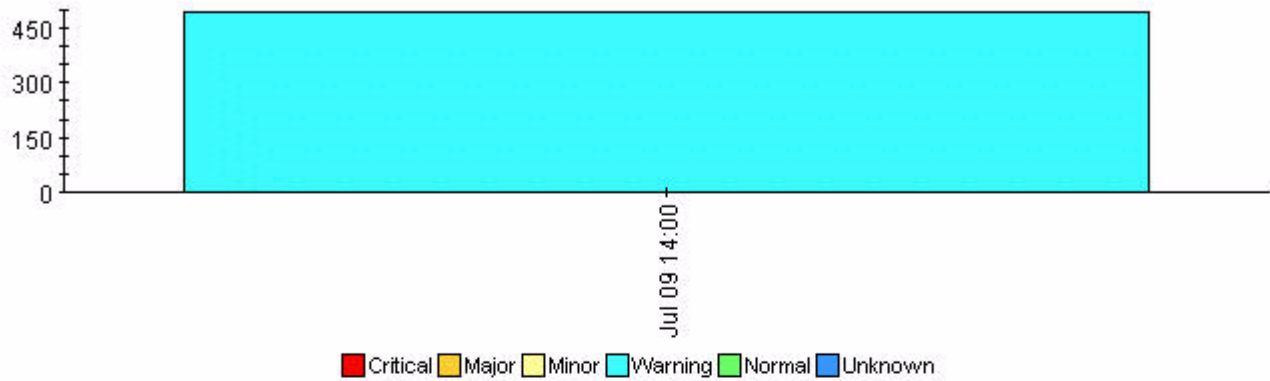
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity

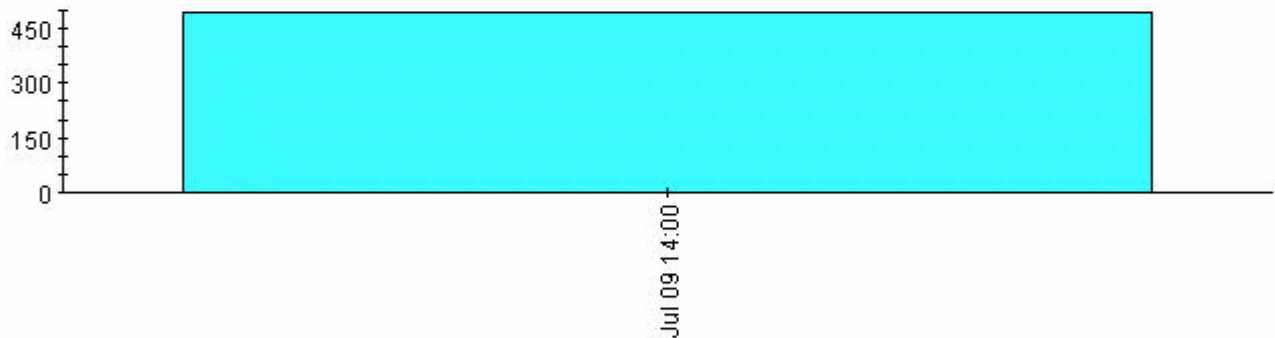
OS:Windows@@pdaw0468.corp.sprint.com
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume

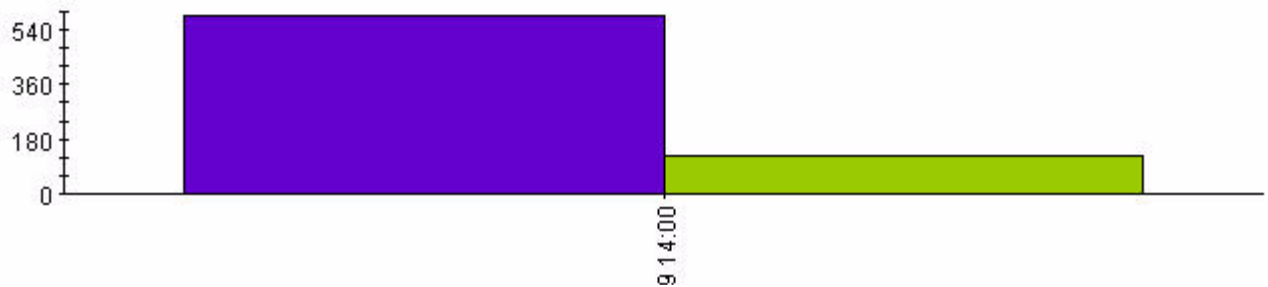
OS:Windows@@pdaw0468.corp.sprint.com
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates

OS:Windows@@pdaw0468.corp.sprint.com
Mon, Jul 9 2:00 PM - Mon, Jul 9 2:00 PM



6 History Message Reports

This chapter contains brief descriptions of the reports about history messages. A history message can be unacknowledged or acknowledged.

1. History Dashboard by Server and Node

A list of the top 30 management server and nodes with the most severe messages and the most special flags.

2. History Dashboard by Server Node and Template

A list of the top 30 management servers, nodes and templates with the most severe messages and the most special flags.

3. Message Age Severity Trend by Server and User

Management servers and users that have the daily messages with the longest age (where age refers to the amount of time that it took a user to acknowledge/clear the alarm) and details hourly, daily, weekly and monthly message age, severity, volume, duplicates, special flags, and delay in seconds for the selected management server and user pair.

4. Message OVO Server Summary

Displays message severity for each Operations management server and for the selected server, details message severity, age and duplicates daily, weekly and monthly.

5. Message Severity Trend by All Message

Provides a summary of all messages across all management servers by severity and details message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

6. Message Severity Trend by Application

A list of 15 applications that have the most associated messages and details for a selected application the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

7. Message Severity Trend by Message Group

A list of 15 message groups that have the most associated messages and details for a selected message group the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

8. Message Severity by Node

A list of 15 nodes that have the most associated messages and details for a selected node the message age, severity, volume, duplicates, special flag counts, and delay in seconds hourly, daily, weekly and monthly.

9. Message Severity by Node and Application

A list of 15 nodes and corresponding applications on those nodes that have the most associated messages and details for a node and application pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

10. Message Severity by Node and Message Group

A list of 15 nodes and corresponding message groups on those nodes that have the most associated messages and details for a node and message group pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

11. Message Severity Trend by Node and Template

A list of 15 nodes and corresponding templates managing those nodes that have the most associated messages and details for a selected node and template pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

12. Message Severity Trend by Node and Service

A list of 15 nodes and corresponding services running on those nodes that have the most associated messages and details for a selected node and service pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

13. Message Severity Trend by Server

A list of 15 Operations management servers that have the most associated messages and details for a selected Operations management server the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

14. Message Severity Trend by Server and Message Group

A list of 15 Operations management servers and corresponding message groups being monitored by those servers that have the most associated messages and details for a selected management server and message group pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

15. Message Severity by Server and Node

A list of 15 Operations management servers and corresponding nodes being managed by those servers that have the most associated messages and details for a selected management server and node pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

16. Message Severity by Server and Service

A list of 15 Operations management servers and corresponding services being managed by those servers that have the most associated messages and details for a selected management server and service pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

17. Message Severity by Server

A list of 15 Operations management servers and corresponding templates monitored by those servers that have the most associated messages and details for a selected management server and template pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

18. Message Severity by Server and Application

A list of 15 Operations management servers and corresponding applications being managed by those servers that have the most associated messages and details for a selected management server and application pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

19. Message Severity by Server, Node and Application

A list of 15 Operations management servers and corresponding nodes and applications on those nodes that have the most associated messages and details for a selected management server, node and application threesome the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

20. Message Severity by Server, Node and Message Group

A list of 15 Operations management servers and corresponding nodes and message groups from those nodes that have the most associated messages and details for a selected management server, node and message count threesome the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

21. Message Severity by Server, Node and Service

A list of 15 Operations management servers and corresponding nodes and services on those nodes that have the most associated messages and details for a selected management server, node and service threesome the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

22. Message Severity by Server, Template and Condition

A list of 15 Operations management servers and corresponding monitored templates and occurred conditions on those servers that have the most associated messages and details for a selected management server, template and condition threesome the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

23. Message Severity Trend by Server and User

A list of 15 Operations management servers and corresponding users on those servers that have the most associated messages and details for a selected management server and user pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

24. Message Severity Trend by Service

A list of 15 services that have the most associated messages and details for a selected service the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

25. Message Severity by Template

A list of 15 templates that have the most associated messages and details for a selected template the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

26. Message Severity by Template and Condition

A list of 15 templates and corresponding occurred conditions that have the most associated messages and details for a selected template and condition pair the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

27. Message Severity by User

A list of 15 users that have the most associated messages and details for a selected user the message age, severity, volume, duplicates, special flag counts and delay in seconds hourly, daily, weekly and monthly.

28. Monthly Server Breakdown with Special Flag

A list of the top 20 Operations management servers with the most messages with notify and trouble ticket details and a graph of hourly, daily, weekly and monthly special flag counts.

29. Template Breakdown with Special Flags

A list of the top 20 templates with the most messages with notify and trouble ticket details and a graph of hourly, daily, weekly, and monthly special flag counts.

OV Operations

Historical Message Trends OVO Server



Daily Message Severity by Server

Mon, Jul 9, 2007

Server	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
ovpihpt5	630	48	22	62	429	69	0	0

[Daily](#)
[Weekly](#)
[Monthly](#)

Daily Message Severity

ovpihpt5
Mon, Jul 9, 2007

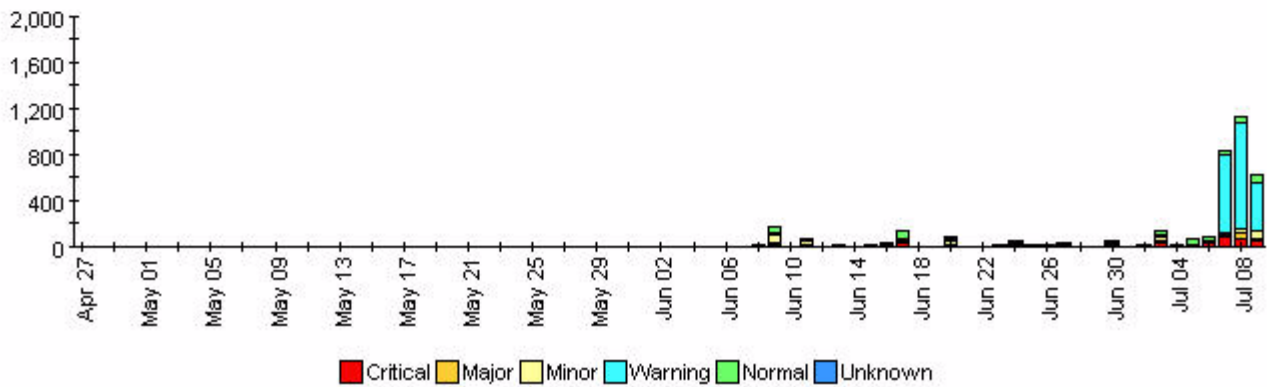
- (7.61%) Critical
- (3.49%) Major
- (9.84%) Minor
- (68.09%) Warning
- (10.95%) Normal
- (0.0%) Unknown



[Daily](#)
[Weekly](#)
[Monthly](#)

Daily Message Severity

ovpihpt5
Fri, Apr 27, 2007 - Mon, Jul 9, 2007



Daily

Weekly

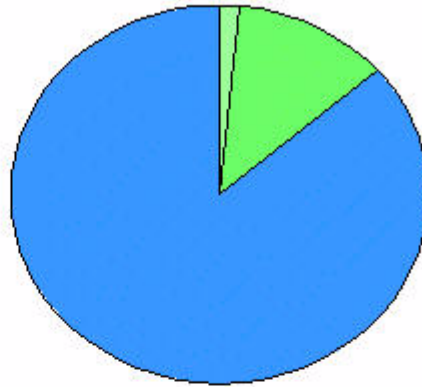
Monthly

Weekly Message Age

ovpihpt5

Sun, Jul 1, 2007

- (86.36%) < 5 min
- (1.51%) 5 - 10 min
- (12.12%) 10 - 30 min
- (0.0%) 30 - 60 min
- (0.0%) 1 - 2 hours
- (0.0%) 2 - 12 hours
- (0.0%) 12 - 24 hours
- (0.0%) > 24 hours



Daily

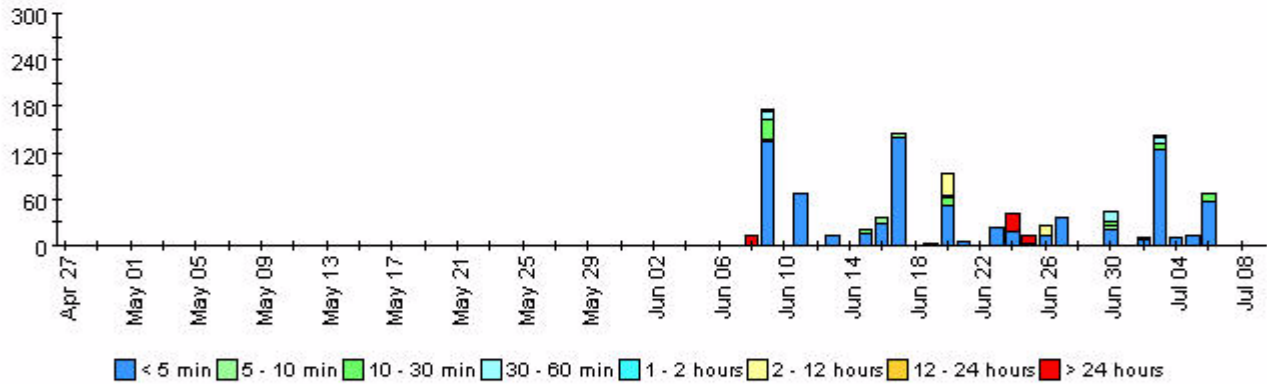
Weekly

Monthly

Daily Message Age

ovpihpt5

Fri, Apr 27, 2007 - Mon, Jul 9, 2007



Daily

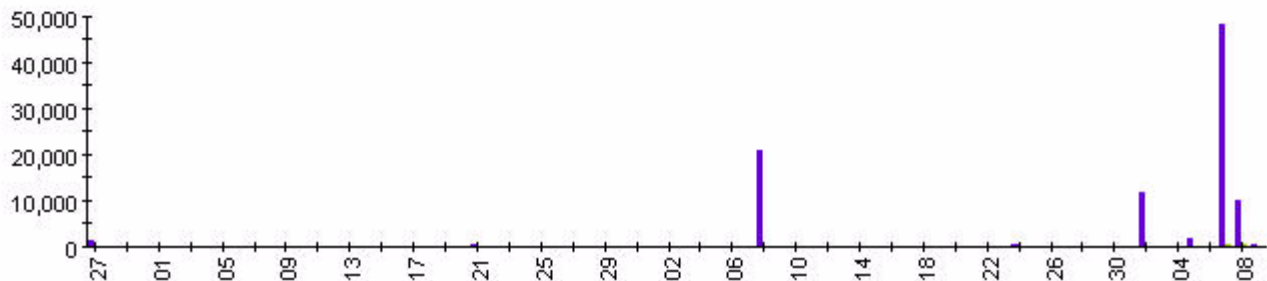
Weekly

Monthly

Daily Message Duplicates

ovpihpt5

Fri, Apr 27, 2007 - Mon, Jul 9, 2007



OV Operations



Consolidated Message Trend Top 15 by Application

Daily Message Severity Top 15 by Application

Mon, Jul 9, 2007

Application	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
NTWK	350	7	2	12	328	1	0	0
SNMPTraps	109	14	3	0	42	50	0	0
HP OpenView Operations	70	15	0	0	46	9	0	0
	32	0	0	32	0	0	0	0
INF	16	10	0	0	5	1	0	0
OS	14	0	10	4	0	0	0	0
OVOW	8	0	3	4	1	0	0	0
WLSSPI	6	0	0	0	0	6	0	0
APP	5	0	3	0	0	2	0	0
Edify	4	0	0	2	2	0	0	0
OpC	3	0	0	0	3	0	0	0
7gp	2	0	0	2	0	0	0	0
MIDDLEWARE	2	1	0	1	0	0	0	0
rhs	2	0	0	2	0	0	0	0
db2s_dbmon.pl	2	0	0	0	2	0	0	0

[Hourly](#)

Daily

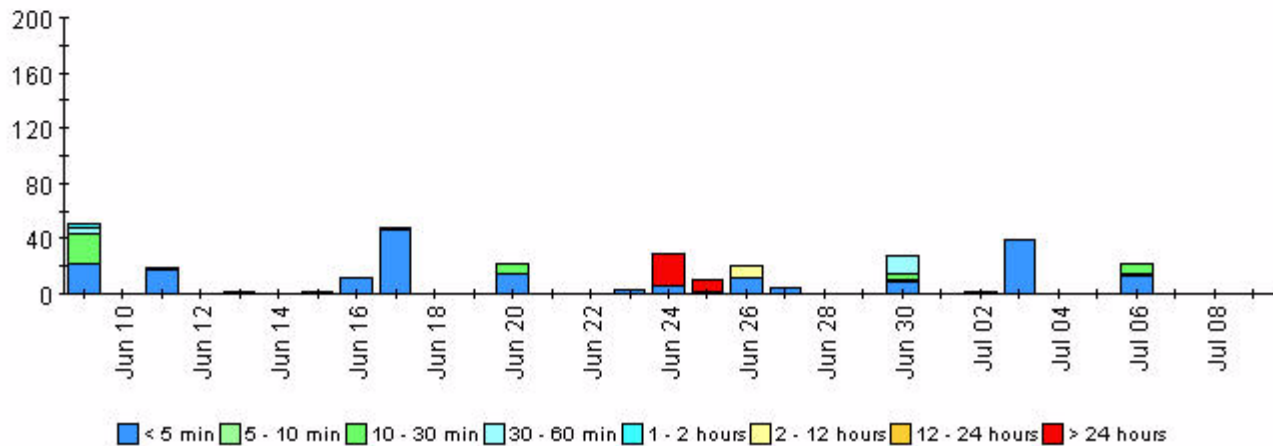
[Weekly](#)

[Monthly](#)

Daily Message Age

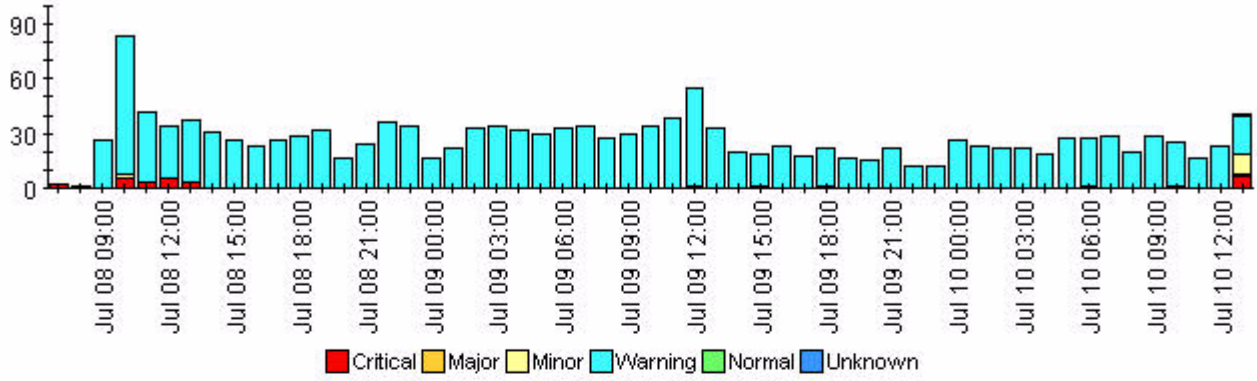
NTWK

Sat, Jun 9, 2007 - Mon, Jul 9, 2007



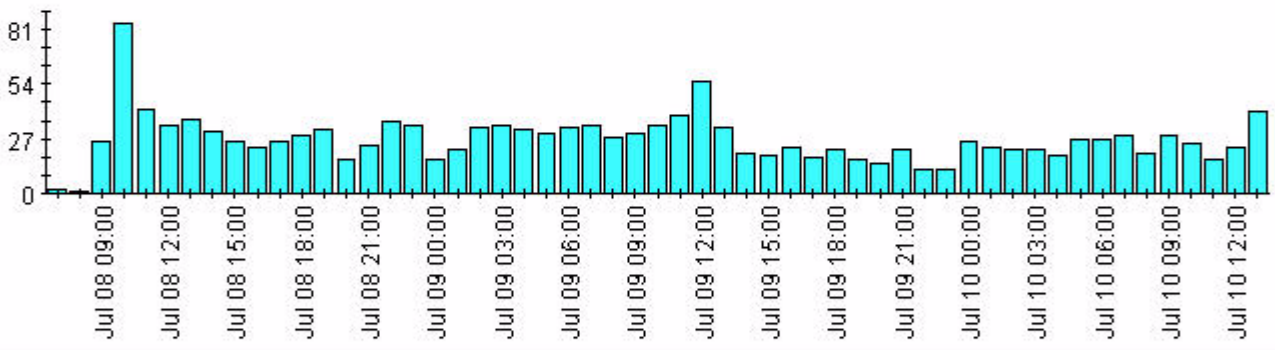
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity
NTWK
Sun, Jul 8 7:00 AM - Tue, Jul 10 1:00 PM



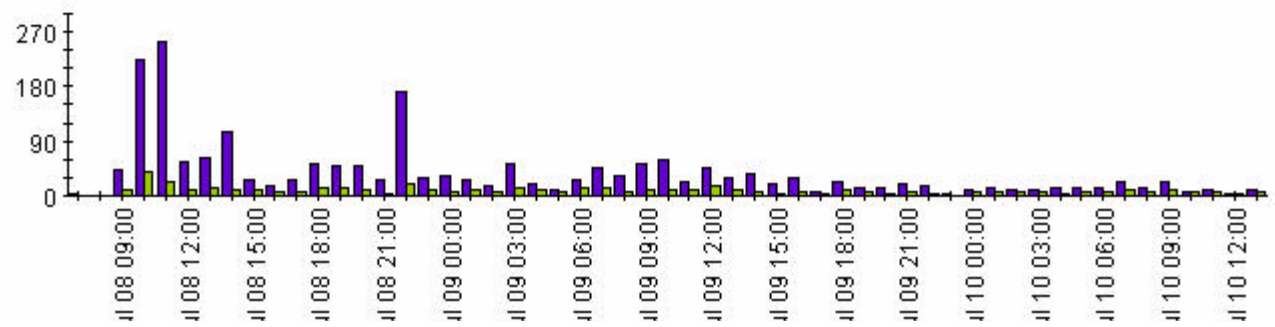
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume
NTWK
Sun, Jul 8 7:00 AM - Tue, Jul 10 1:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates
NTWK
Sun, Jul 8 7:00 AM - Tue, Jul 10 1:00 PM



OV Operations



Consolidated Message Trend Top 15 by Node

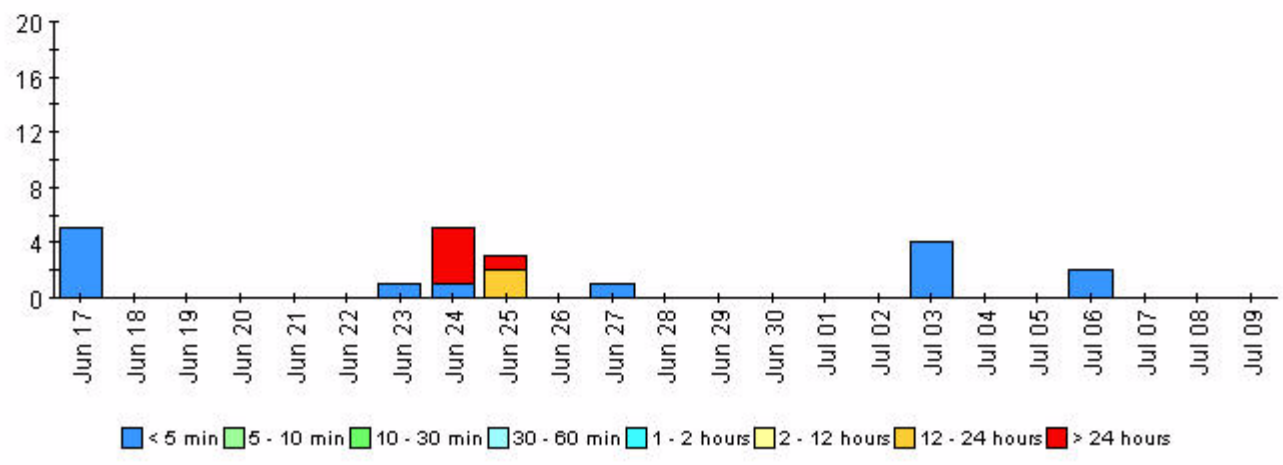
Daily Message Severity Top 15 by Node

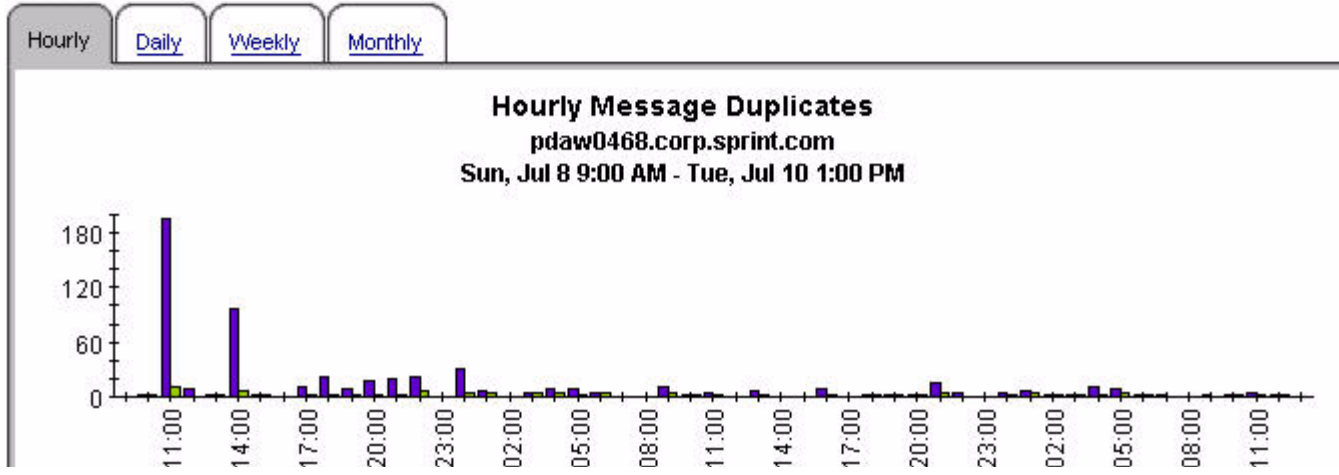
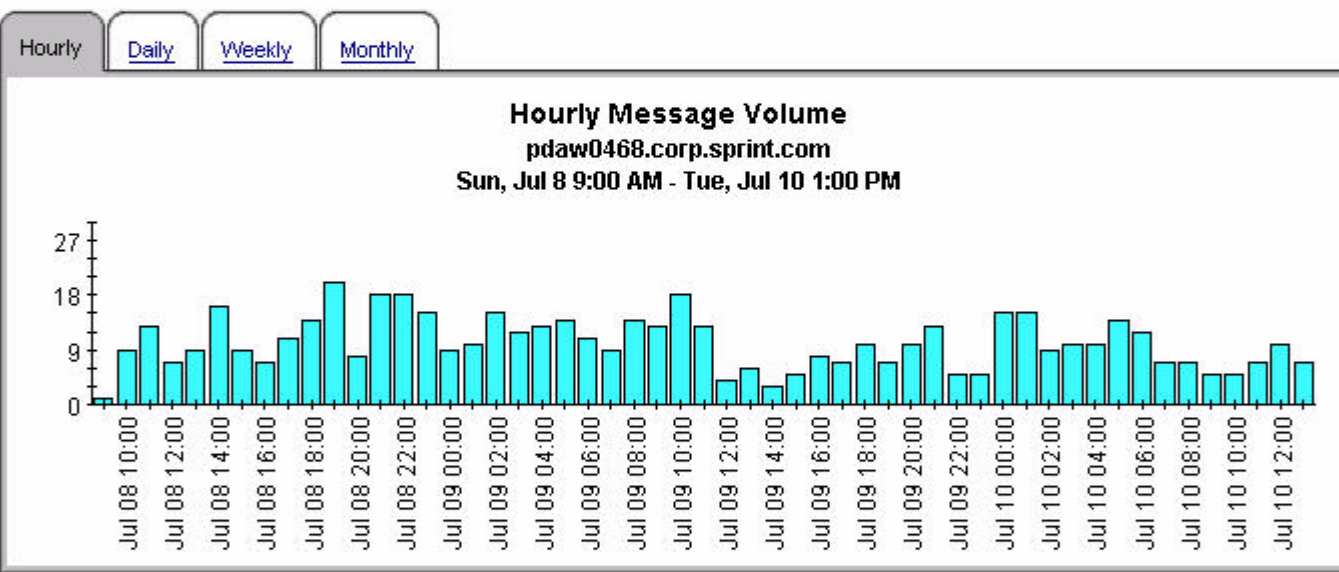
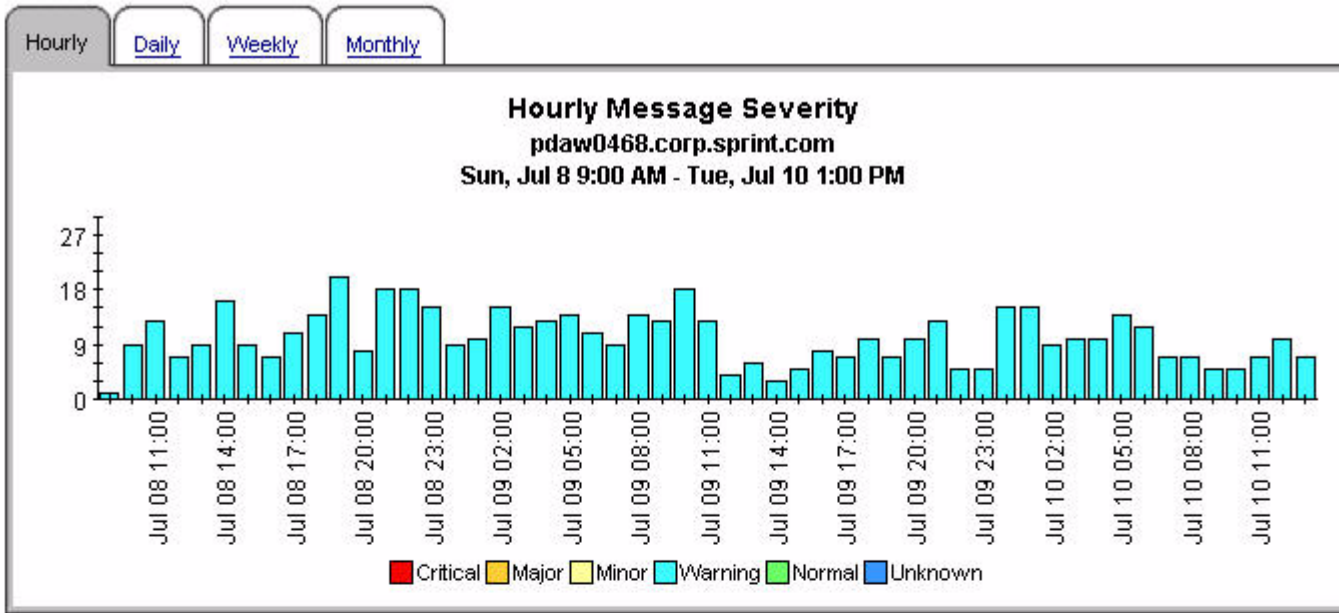
Mon, Jul 9, 2007

Node	Message Count	Critical	Major	Minor	Warning	Normal	Unknown
pdaw0468.corp.sprint.com	133	0	0	0	133	0	0
plsw0472.corp.sprint.com	74	0	0	0	74	0	0
plsw0470.corp.sprint.com	62	0	0	0	62	0	0
pksw0466.corp.sprint.com	40	0	0	0	40	0	0
plsw0464.corp.sprint.com	34	0	0	0	34	0	0
prew0478.corp.sprint.com	26	0	1	0	25	0	0
jes24.corp.sprint.com	15	0	0	15	0	0	0
jes21.corp.sprint.com	12	0	0	12	0	0	0
pvmk0027.corp.sprint.com	12	3	0	0	9	0	0
geosprclgra	11	0	2	0	0	9	0
plsa0636.corp.sprint.com	8	0	8	0	0	0	0
pree0136.corp.sprint.com	8	4	0	0	0	4	0
plss1986.corp.sprint.com	7	0	0	0	6	1	0
dadotp03.corp.sprint.com	6	0	0	0	0	6	0
pkda0452.corp.sprint.com	6	0	0	0	6	0	0

[Hourly](#)
[Daily](#)
[Weekly](#)
[Monthly](#)

Daily Message Age pdaw0468.corp.sprint.com Sun, Jun 17, 2007 - Mon, Jul 9, 2007





OV Operations



Consolidated Message Trend by Top 15 by Node and Message Group

Daily Message Severity Top 15 by Node and Message Group

Mon, Jul 9, 2007

Node	Msg Group	Critical	Message Count	Major	Minor	Warning	Normal	Unknown
pdaw0468.corp.sprint.com	NNM_ENV	0	133	0	0	133	0	0
plsw0472.corp.sprint.com	NNM_ENV	0	74	0	0	74	0	0
plsw0470.corp.sprint.com	NNM_ENV	0	62	0	0	62	0	0
pksw0466.corp.sprint.com	NNM_ENV	0	40	0	0	40	0	0
plsw0464.corp.sprint.com	NNM_ENV	0	34	0	0	34	0	0
prew0478.corp.sprint.com	NNM_ENV	0	26	1	0	25	0	0
jes24.corp.sprint.com	Control-M	0	15	0	15	0	0	0
jes21.corp.sprint.com	Control-M	0	12	0	12	0	0	0
pvmk0027.corp.sprint.com	OpC	3	12	0	0	9	0	0
geosprpclgra	ICM	0	11	2	0	0	9	0
plsa0636.corp.sprint.com	AIX	0	8	8	0	0	0	0
pree0136.corp.sprint.com	MUX	4	8	0	0	0	4	0
dadotp03.corp.sprint.com	WLSSPI	0	6	0	0	0	6	0
plsh0875.corp.sprint.com	OpC	3	6	0	0	3	0	0
plsh0697.it.sprintspectrum.com	Control-M	0	6	0	6	0	0	0

[Hourly](#)

[Daily](#)

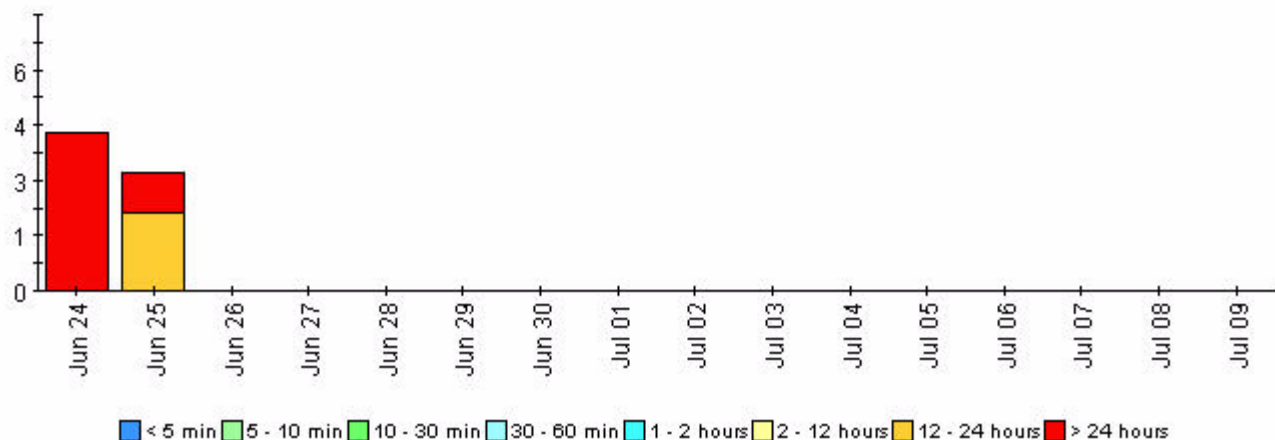
[Weekly](#)

[Monthly](#)

Daily Message Age

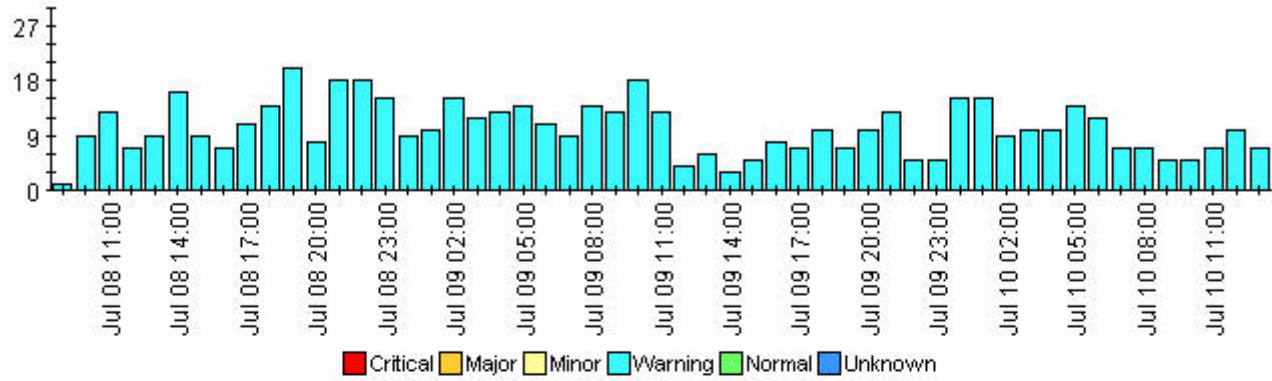
pdaw0468.corp.sprint.com / NNM_ENV

Sun, Jun 24, 2007 - Mon, Jul 9, 2007



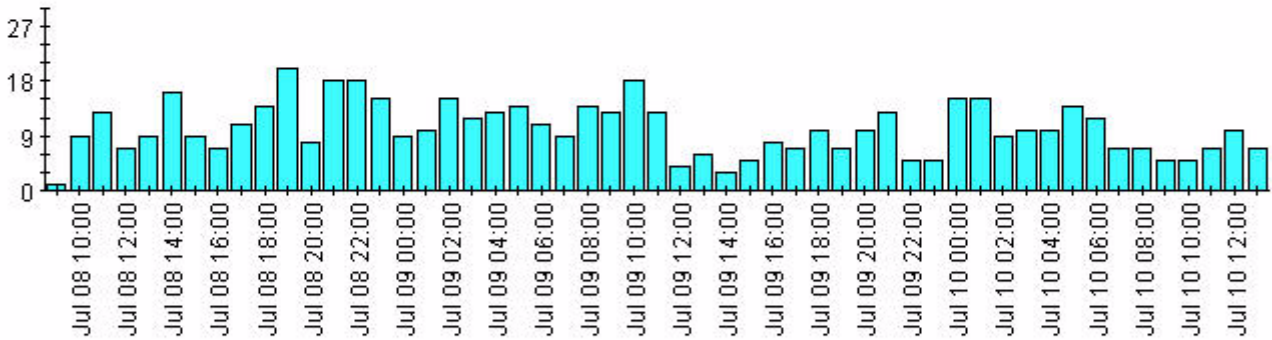
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity
 pdaw0468.corp.sprint.com / NNM_ENV
 Sun, Jul 8 9:00 AM - Tue, Jul 10 1:00 PM



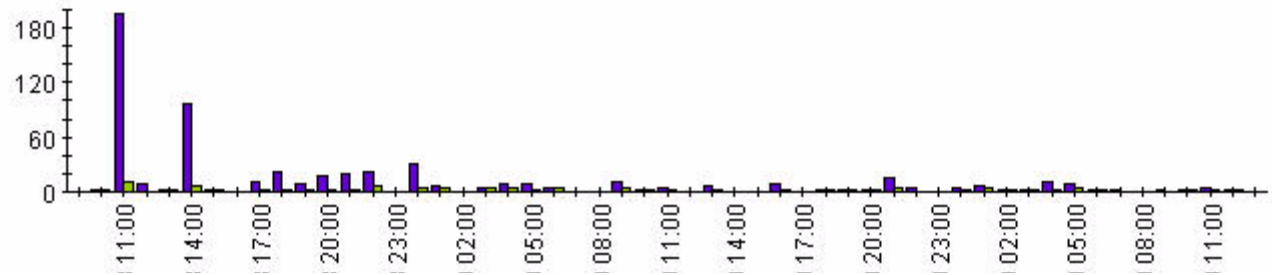
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume
 pdaw0468.corp.sprint.com / NNM_ENV
 Sun, Jul 8 9:00 AM - Tue, Jul 10 1:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates
 pdaw0468.corp.sprint.com / NNM_ENV
 Sun, Jul 8 9:00 AM - Tue, Jul 10 1:00 PM



OV Operations

Consolidated Message Trend Top 15 by Node and Service



Daily Message Severity Top 15 by Node and Service

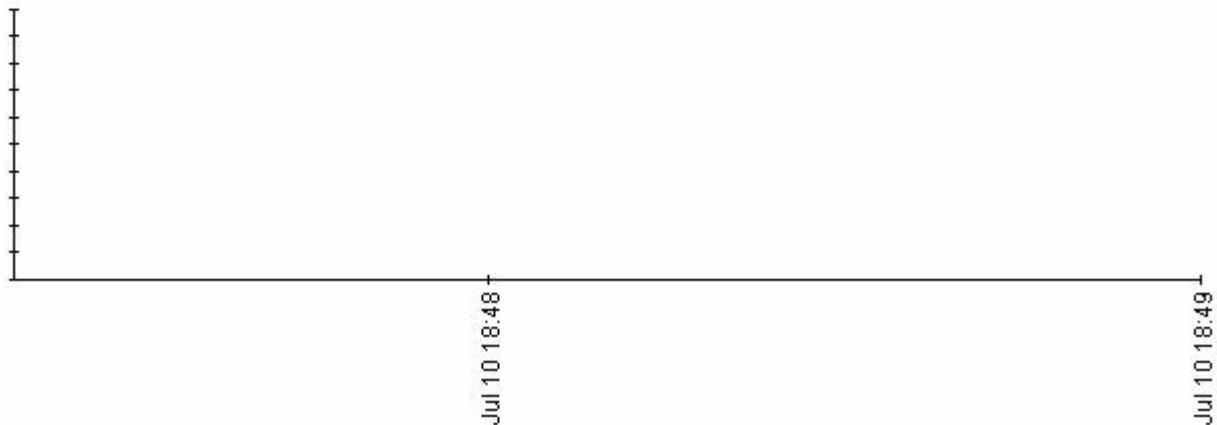
Mon, Jul 9, 2007

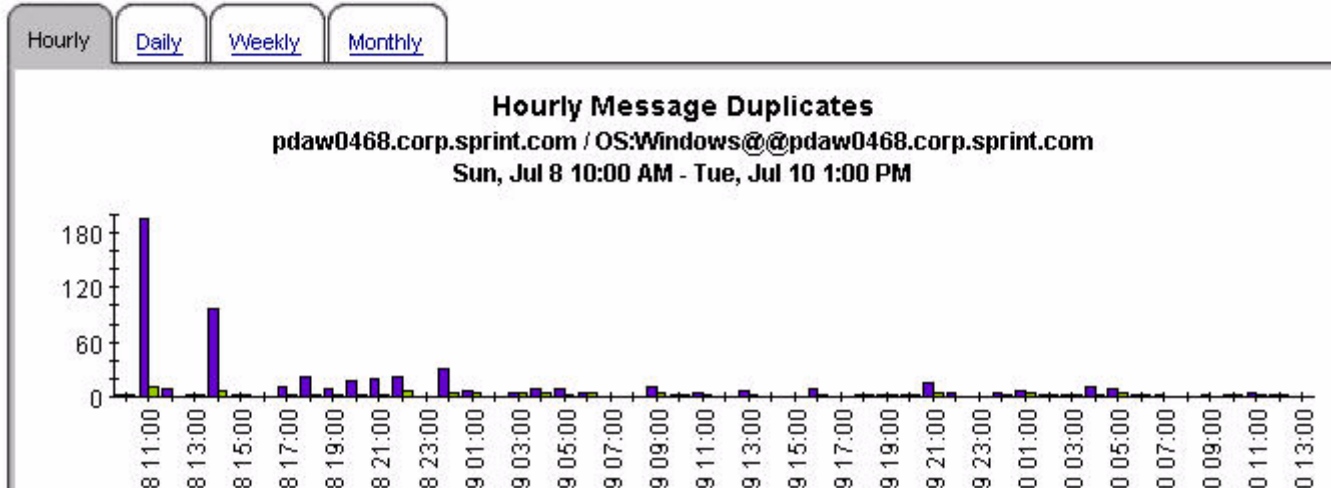
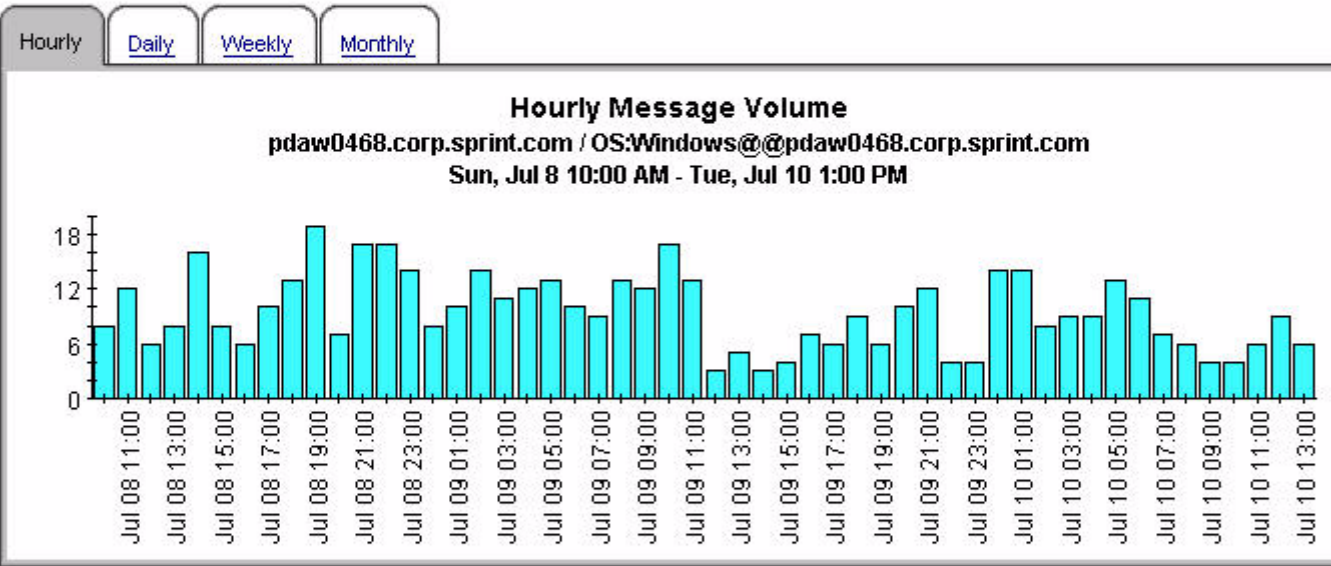
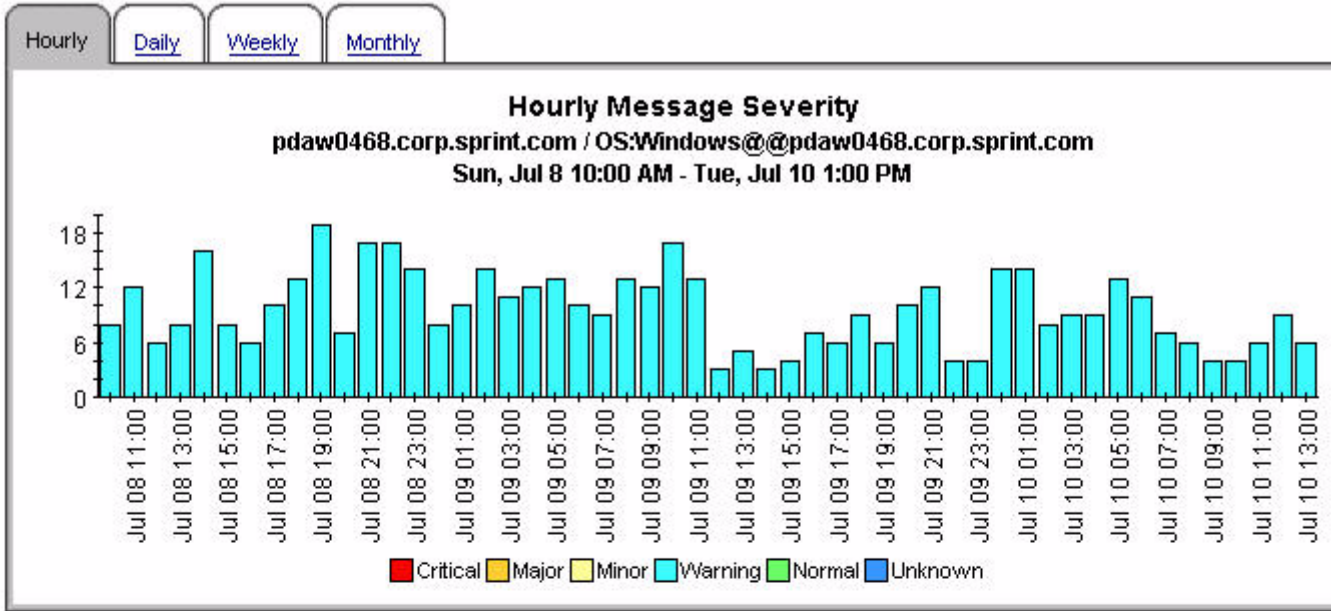
Node	Service	Message Count	Critical	Major	Minor	Warning	Normal	U
pdaw0468.corp.sprint.com	OS:Windows@@pdaw0468.corp.sprint.com	120	0	0	0	120	0	
plsw0472.corp.sprint.com	OS:Windows@@plsw0472.corp.sprint.com	64	0	0	0	64	0	
plsw0470.corp.sprint.com	OS:Windows@@plsw0470.corp.sprint.com	49	0	0	0	49	0	
pksw0466.corp.sprint.com	OS:Windows@@pksw0466.corp.sprint.com	38	0	0	0	38	0	
plsw0464.corp.sprint.com	OS:Windows@@plsw0464.corp.sprint.com	34	0	0	0	34	0	
prew0478.corp.sprint.com	OS:Windows@@prew0478.corp.sprint.com	23	0	0	0	23	0	
jes24.corp.sprint.com	Batch-Prod	15	0	0	15	0	0	
pdaw0468.corp.sprint.com	SNMPTraps:SNMP@@pdaw0468.corp.sprint.com	13	0	0	0	13	0	
plsw0470.corp.sprint.com	SNMPTraps:SNMP@@plsw0470.corp.sprint.com	13	0	0	0	13	0	
jes21.corp.sprint.com	Batch-Prod	12	0	0	12	0	0	
pvmk0027.corp.sprint.com	OpC	12	3	0	0	9	0	
plsw0472.corp.sprint.com	SNMPTraps:SNMP@@plsw0472.corp.sprint.com	10	0	0	0	10	0	
geosrpclgra	SNMPTraps:clear@@geosrpclgra	9	0	0	0	0	9	
plsa0636.corp.sprint.com	OS:AIX@@plsa0636.corp.sprint.com	8	0	8	0	0	0	
plss1986.corp.sprint.com	OpC	7	0	0	0	6	1	

Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Age

pdaw0468.corp.sprint.com / OS:Windows@@pdaw0468.corp.sprint.com
Sun, Jul 8 10:00 AM - Tue, Jul 10 1:00 PM



















OV Operations



Consolidated Message Trend by Top 15 by Server and Message Group

Daily Message Severity Top 15 by Server and Message Group

Mon, Jul 9, 2007

Server	Message Group	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Escalate
ovpihpt5	NNM_ENV	370	0	1	0	369	0	0	0
 ovpihpt5	OpC	70	15	0	0	46	9	0	0
 ovpihpt5	Server	43	9	0	0	0	34	0	0
 ovpihpt5	Control-M	38	0	0	38	0	0	0	0
 ovpihpt5	DATA	22	7	2	12	0	1	0	0
 ovpihpt5	WLSSPI	22	10	0	0	5	7	0	0
 ovpihpt5	AIX	11	0	10	1	0	0	0	0
 ovpihpt5	ICM	11	0	2	0	0	9	0	0
 ovpihpt5	MUX	10	5	0	0	0	5	0	0
 ovpihpt5	SNMP	7	0	0	4	3	0	0	0
 ovpihpt5	OS	5	1	1	0	3	0	0	0
 ovpihpt5	SUN	3	0	0	3	0	0	0	0
 ovpihpt5	Windows	3	0	3	0	0	0	0	0
 ovpihpt5	DB2SPI	3	0	0	1	2	0	0	0
 ovpihpt5	OVIS	3	0	2	0	0	1	0	0

[Hourly](#)

[Daily](#)

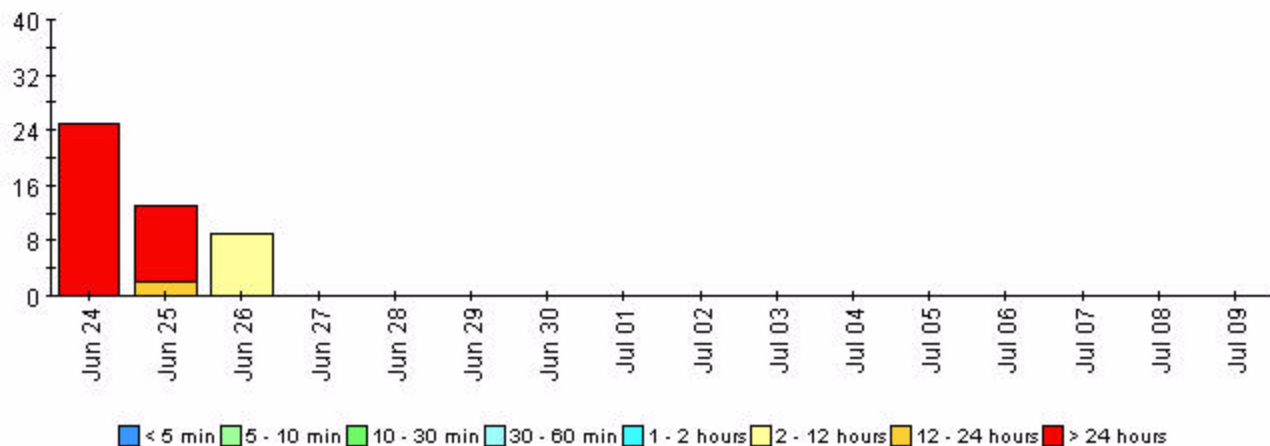
[Weekly](#)

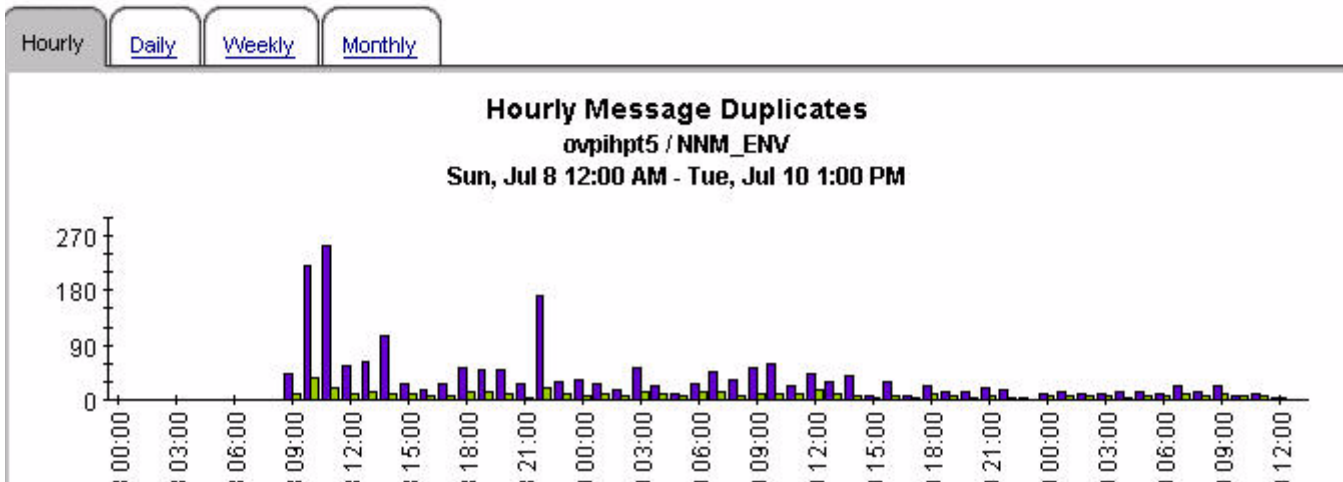
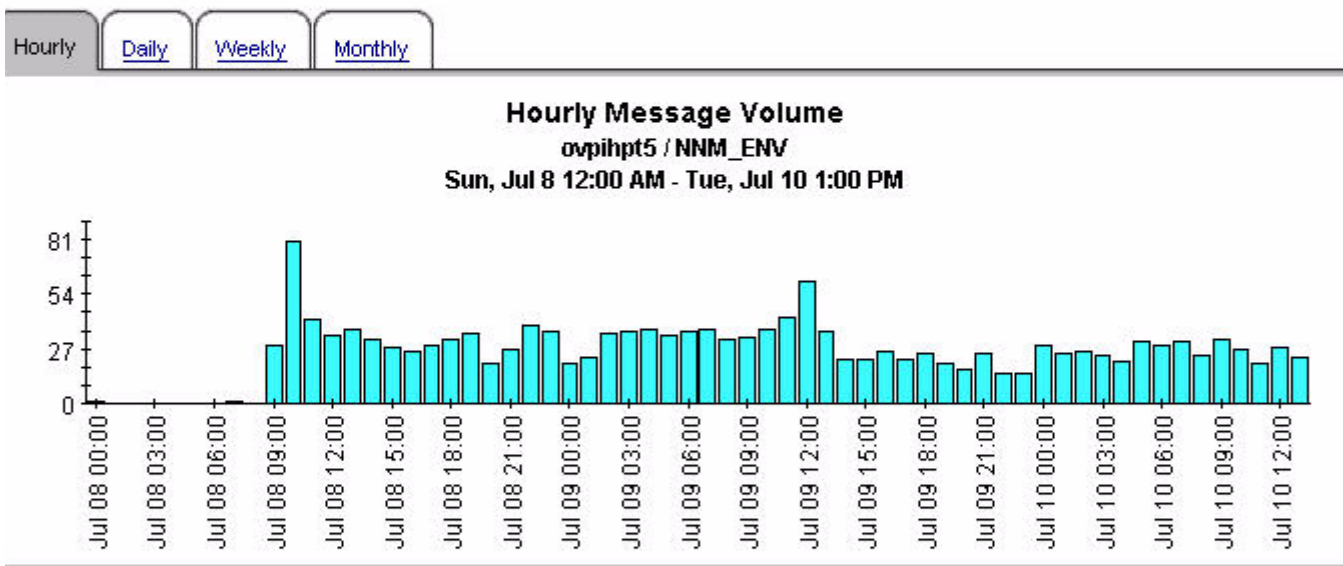
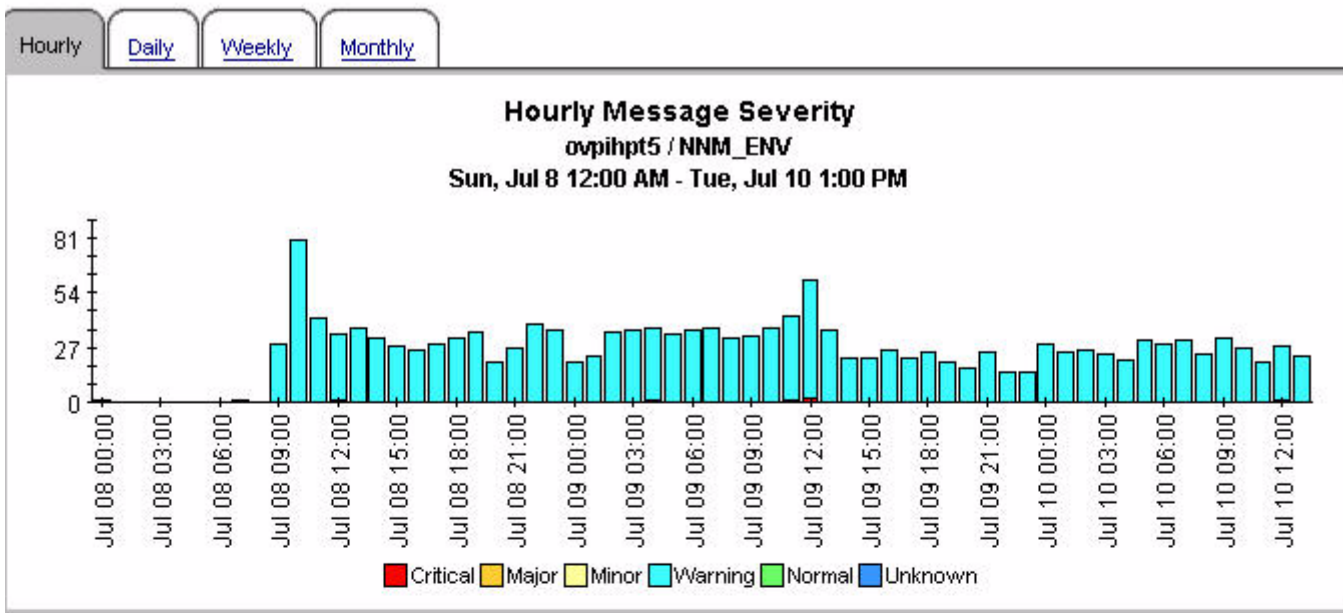
[Monthly](#)

Daily Message Age

ovpihpt5 / NNM_ENV

Sun, Jun 24, 2007 - Mon, Jul 9, 2007





OV Operations

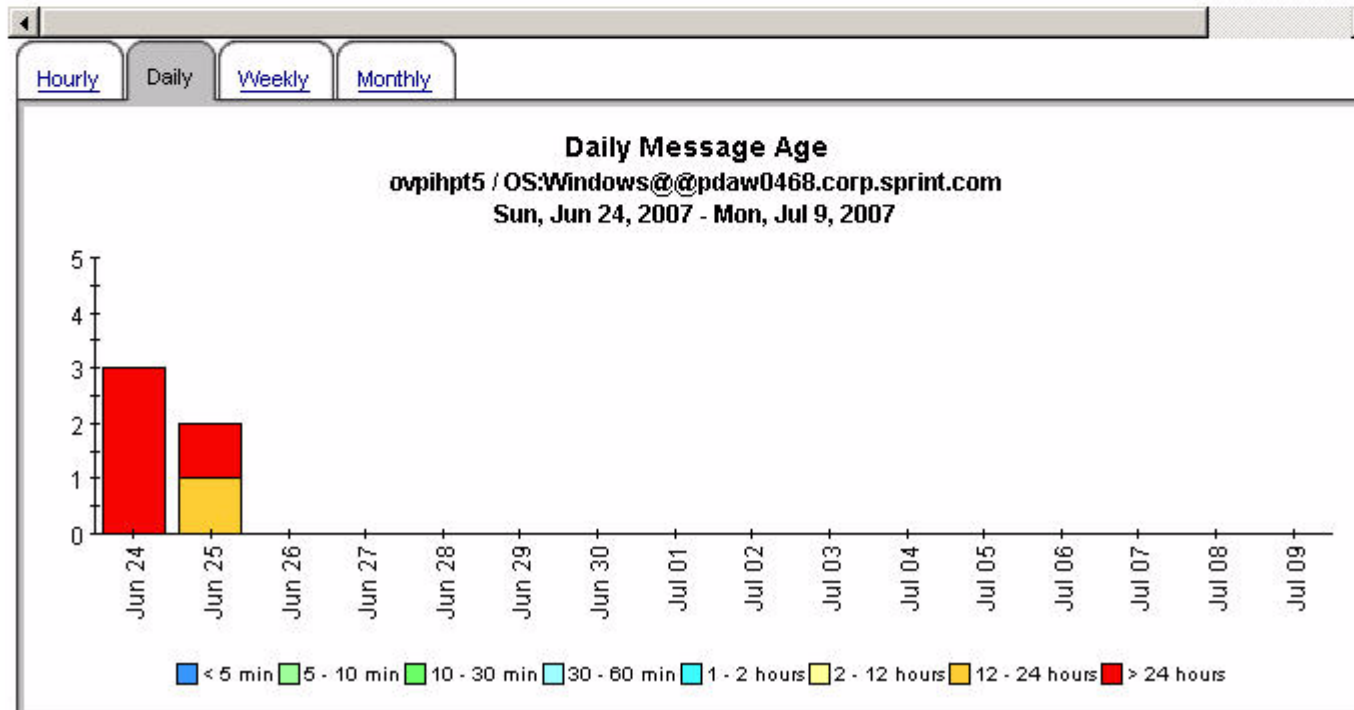
Consolidated Message Trend Top 15 by Server and Service



Daily Message Severity Top 15 by Server and Service

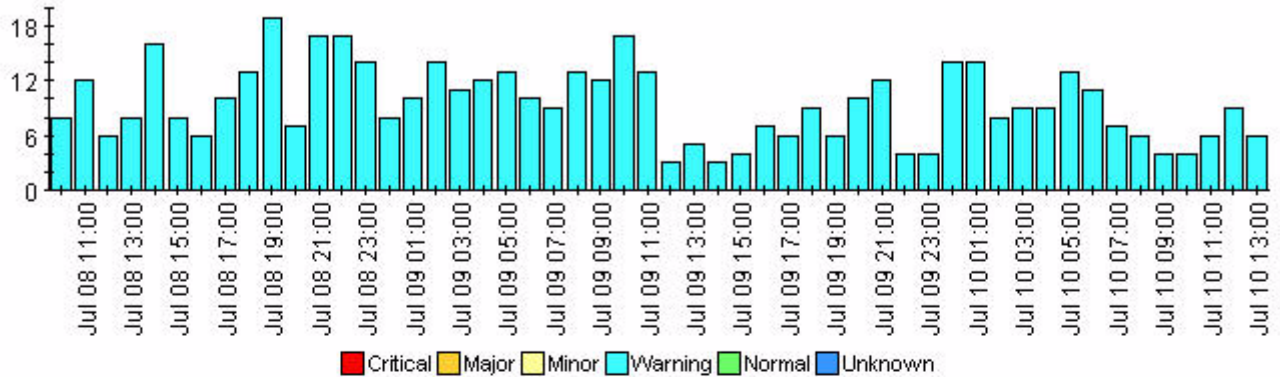
Mon, Jul 9, 2007

Server	Service	Message Count	Critical	Major	Minor	Warning	Normal	Ur
ovpihpt5	OS:Windows@@pdaw0468.corp.sprint.com	120	0	0	0	120	0	
ovpihpt5	OpC	95	25	0	1	53	16	
ovpihpt5	OS:Windows@@plsw0472.corp.sprint.com	64	0	0	0	64	0	
ovpihpt5	OS:Windows@@plsw0470.corp.sprint.com	49	0	0	0	49	0	
ovpihpt5	Batch-Prod	38	0	0	38	0	0	
ovpihpt5	OS:Windows@@pksw0466.corp.sprint.com	38	0	0	0	38	0	
ovpihpt5	OS:Windows@@plsw0464.corp.sprint.com	34	0	0	0	34	0	
ovpihpt5	OS:Windows@@prew0478.corp.sprint.com	23	0	0	0	23	0	
ovpihpt5	SNMPTraps:SNMP@@plsw0470.corp.sprint.com	13	0	0	0	13	0	
ovpihpt5	SNMPTraps:SNMP@@pdaw0468.corp.sprint.com	13	0	0	0	13	0	
ovpihpt5	SNMPTraps:SNMP@@plsw0472.corp.sprint.com	10	0	0	0	10	0	
ovpihpt5	SNMPTraps:clear@@geosprpclgra	9	0	0	0	0	9	
ovpihpt5	OS:AIX@@plsa0636.corp.sprint.com	8	0	8	0	0	0	
ovpihpt5	SeaBiscuit.Intel	4	0	1	0	3	0	
ovpihpt5	SNMPTraps:ADTRAN MX2800 DS3@@pree0136.corp.sprint.com	4	2	0	0	0	2	



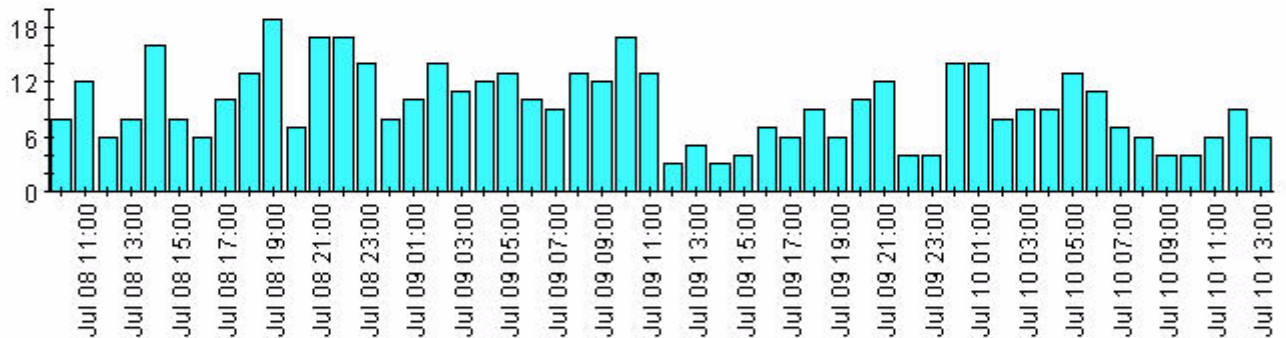
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Severity
 ovpihpt5 / OS:Windows@@pdaw0468.corp.sprint.com
 Sun, Jul 8 10:00 AM - Tue, Jul 10 1:00 PM



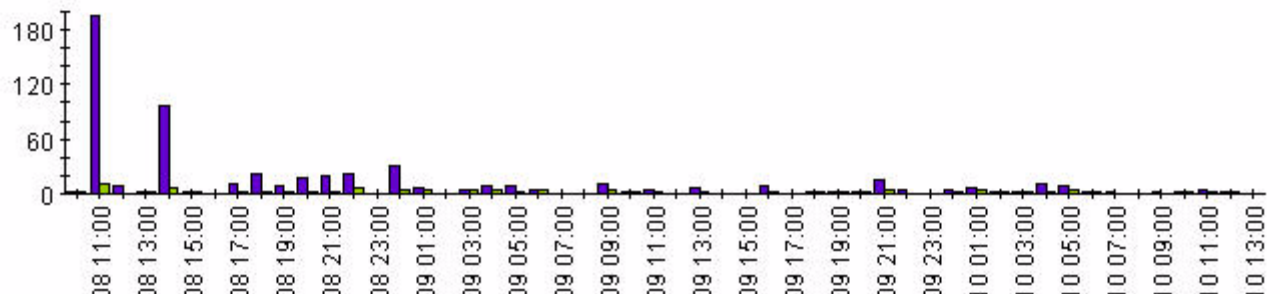
Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Volume
 ovpihpt5 / OS:Windows@@pdaw0468.corp.sprint.com
 Sun, Jul 8 10:00 AM - Tue, Jul 10 1:00 PM



Hourly [Daily](#) [Weekly](#) [Monthly](#)

Hourly Message Duplicates
 ovpihpt5 / OS:Windows@@pdaw0468.corp.sprint.com
 Sun, Jul 8 10:00 AM - Tue, Jul 10 1:00 PM



OV Operations



Consolidated Message Trend Top 15 by Server, Node and Application

Daily Message Severity Top 15 by Server, Node and Application

Mon, Jul 9, 2007

Server	Node	Application	Message Count	Critical	Major	Minor	Warning	Normal	Unknown	Esc
ovpihpt5	pdaw0468.corp.sprint.com	NTWK	120	0	0	0	120	0	0	
ovpihpt5	plsw0472.corp.sprint.com	NTWK	64	0	0	0	64	0	0	
ovpihpt5	plsw0470.corp.sprint.com	NTWK	49	0	0	0	49	0	0	
ovpihpt5	pksw0466.corp.sprint.com	NTWK	38	0	0	0	38	0	0	
ovpihpt5	plsw0464.corp.sprint.com	NTWK	34	0	0	0	34	0	0	
ovpihpt5	prew0478.corp.sprint.com	NTWK	23	0	0	0	23	0	0	
ovpihpt5	jes24.corp.sprint.com		15	0	0	15	0	0	0	
ovpihpt5	pdaw0468.corp.sprint.com	SNMPTraps	13	0	0	0	13	0	0	
ovpihpt5	plsw0470.corp.sprint.com	SNMPTraps	13	0	0	0	13	0	0	
ovpihpt5	jes21.corp.sprint.com		12	0	0	12	0	0	0	
ovpihpt5	pvmk0027.corp.sprint.com	HP OpenView Operations	12	3	0	0	9	0	0	
ovpihpt5	geosprpclgra	SNMPTraps	11	0	2	0	0	9	0	
ovpihpt5	plsw0472.corp.sprint.com	SNMPTraps	10	0	0	0	10	0	0	
ovpihpt5	plsa0636.corp.sprint.com	OS	8	0	8	0	0	0	0	
ovpihpt5	pree0136.corp.sprint.com	SNMPTraps	8	4	0	0	0	4	0	

Hourly

Daily

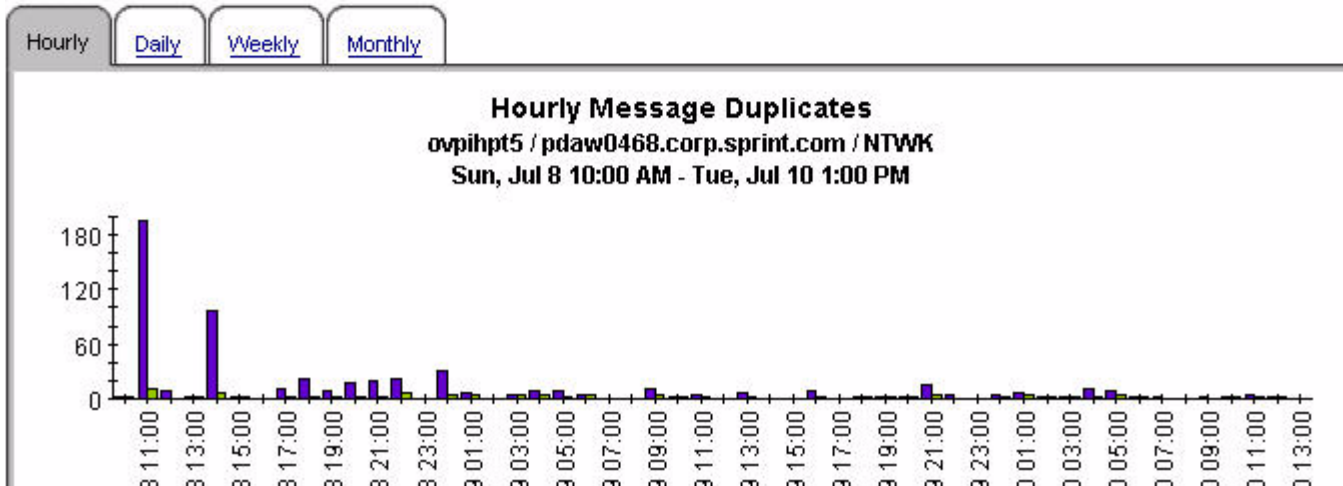
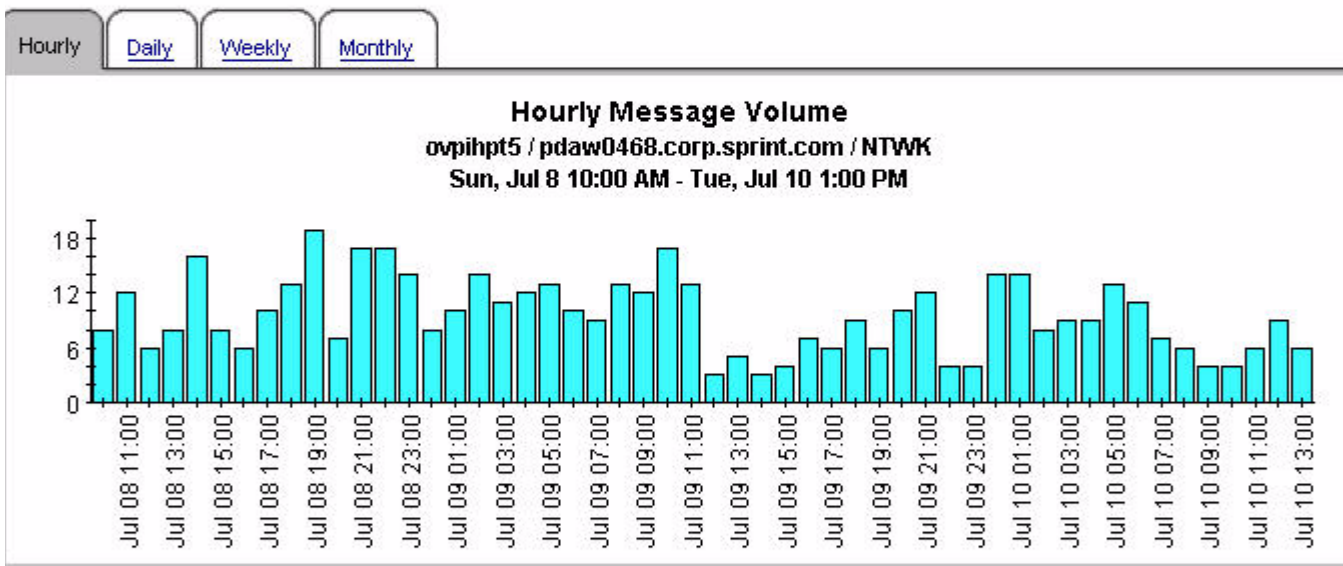
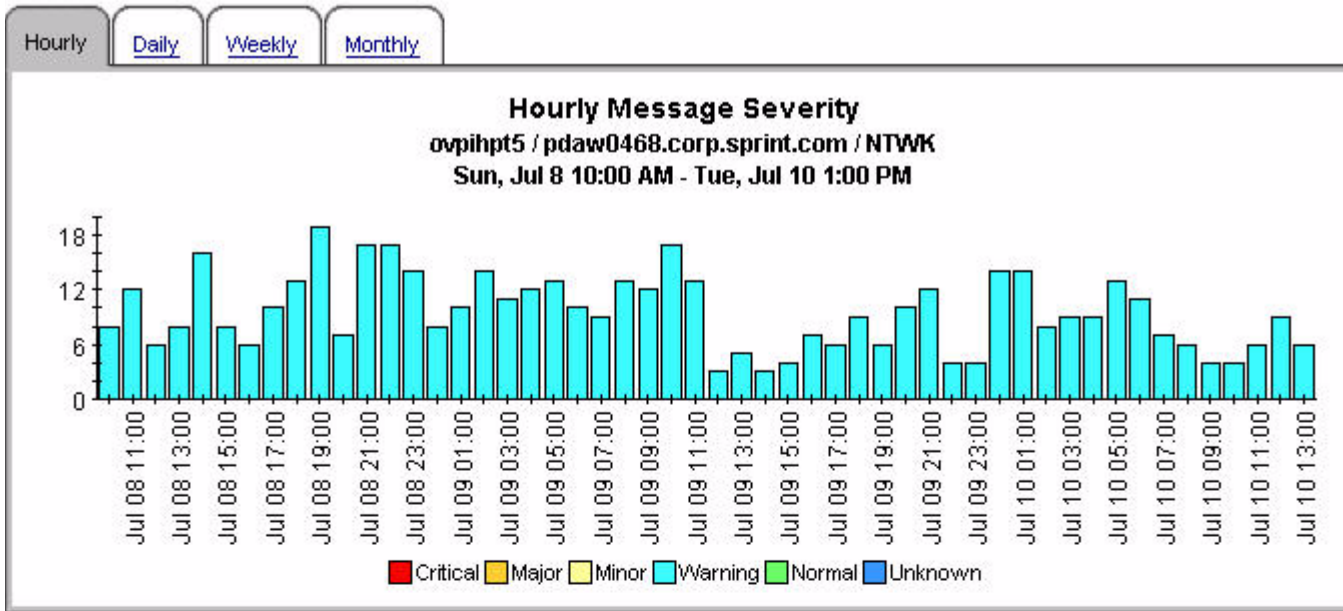
Weekly

Monthly

Hourly Message Age

ovpihpt5 / pdaw0468.corp.sprint.com / NTWK
Sun, Jul 8 10:00 AM - Tue, Jul 10 1:00 PM





OV Operations

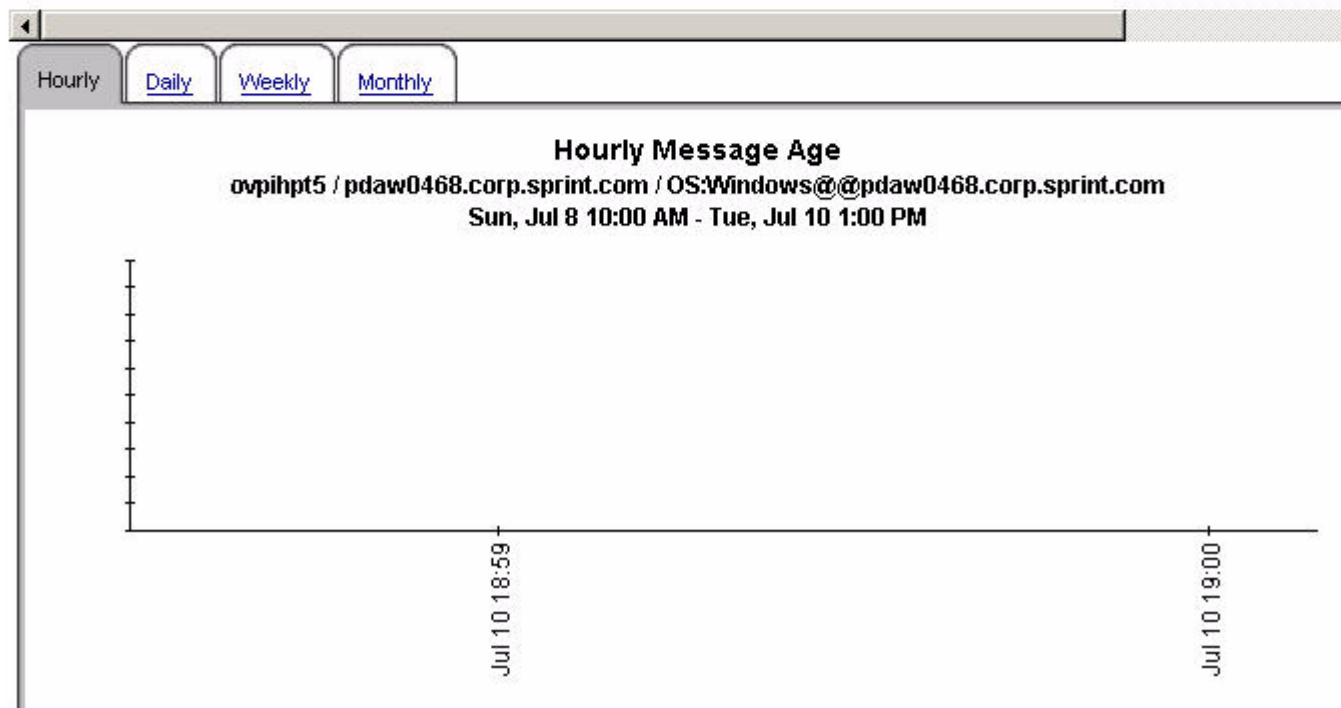
Consolidated Message Trend Top 15 by Server, Node and Service

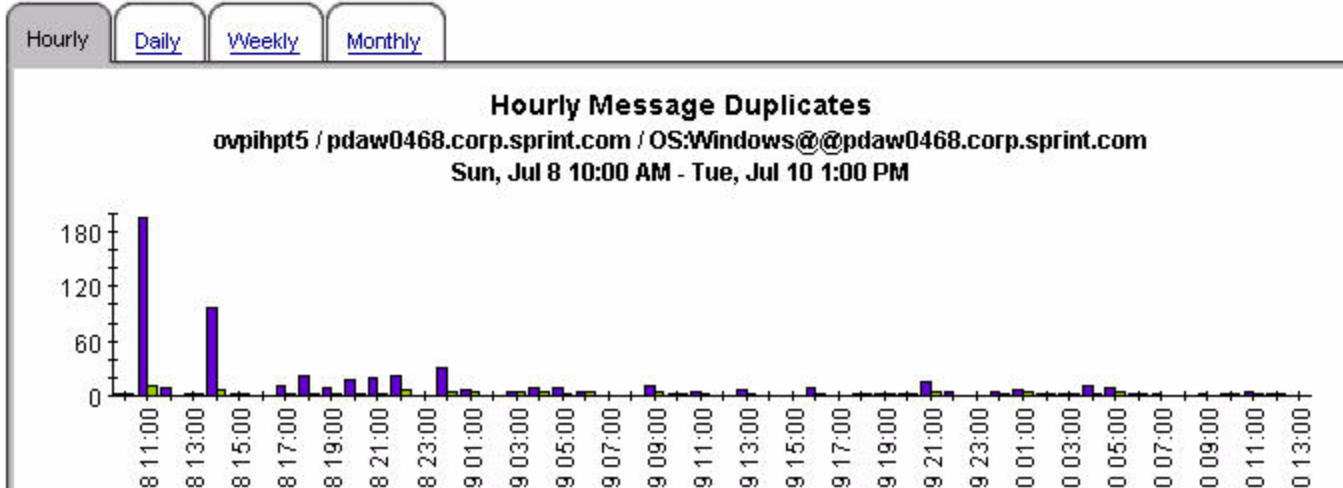
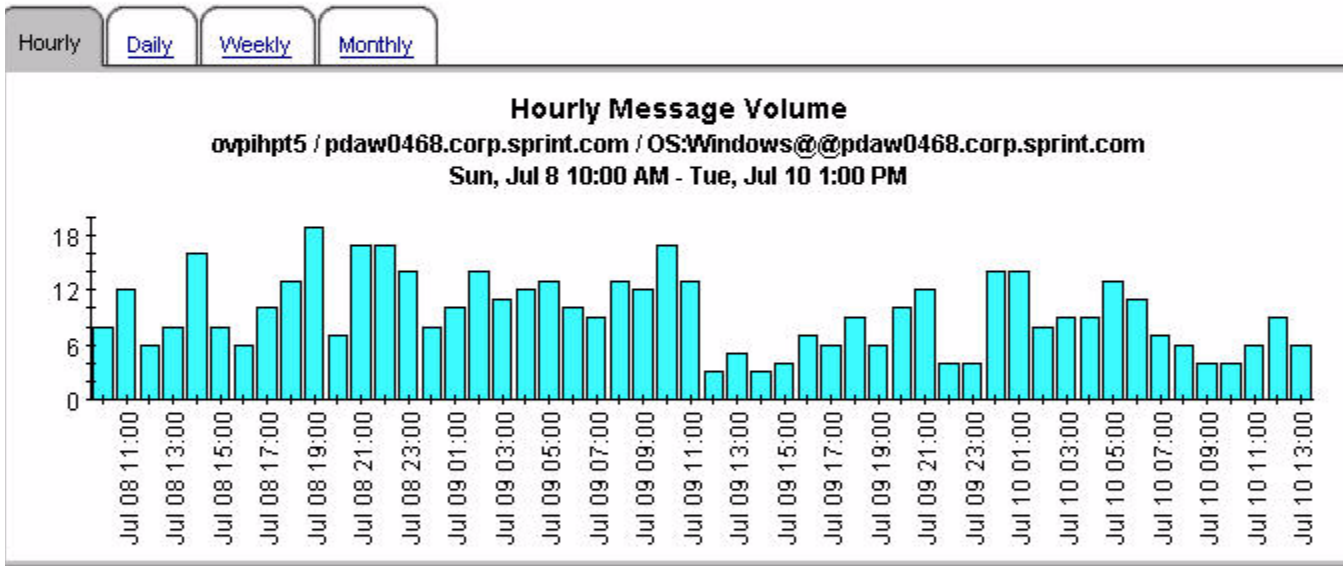
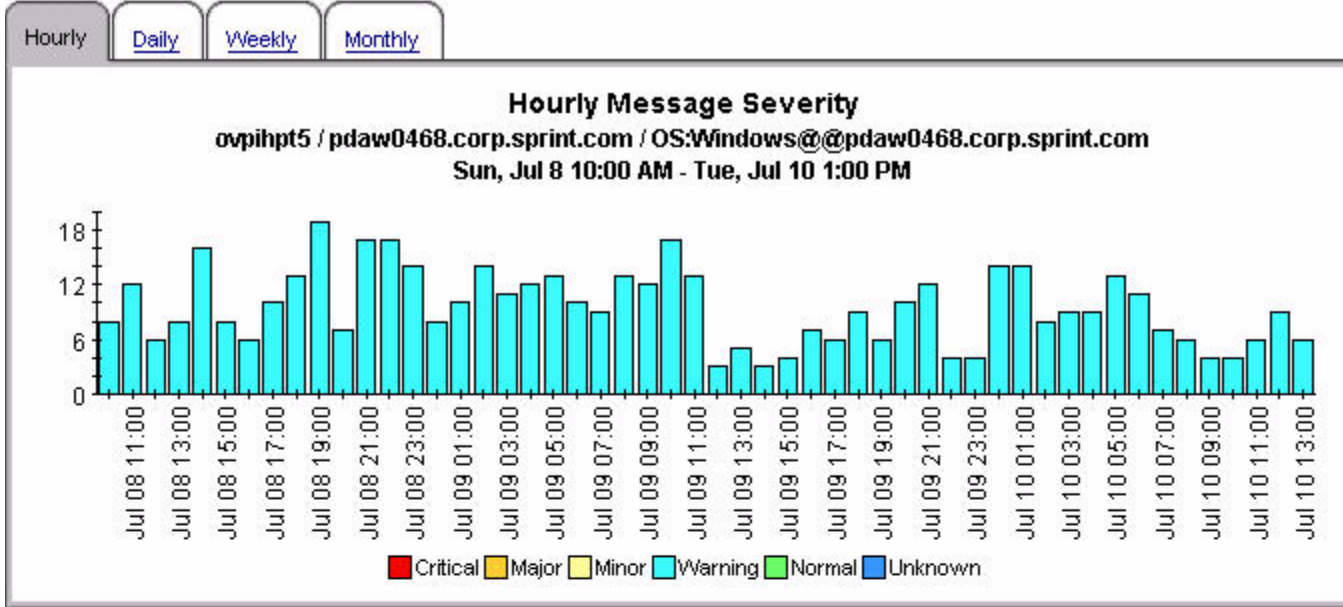


Daily Message Severity Top 15 by Server, Node and Service

Mon, Jul 9, 2007

Server	Node	Service	Message Count	Critical	Major	Minor	Warning
ovpihpt5	pdaw0468.corp.sprint.com	OS:Windows@@pdaw0468.corp.sprint.com	120	0	0	0	120
ovpihpt5	plsw0472.corp.sprint.com	OS:Windows@@plsw0472.corp.sprint.com	64	0	0	0	64
ovpihpt5	plsw0470.corp.sprint.com	OS:Windows@@plsw0470.corp.sprint.com	49	0	0	0	49
ovpihpt5	pksw0466.corp.sprint.com	OS:Windows@@pksw0466.corp.sprint.com	38	0	0	0	38
ovpihpt5	plsw0464.corp.sprint.com	OS:Windows@@plsw0464.corp.sprint.com	34	0	0	0	34
ovpihpt5	prew0478.corp.sprint.com	OS:Windows@@prew0478.corp.sprint.com	23	0	0	0	23
ovpihpt5	jes24.corp.sprint.com	Batch-Prod	15	0	0	15	0
ovpihpt5	pdaw0468.corp.sprint.com	SNMPTraps:SNMP@@pdaw0468.corp.sprint.com	13	0	0	0	13
ovpihpt5	plsw0470.corp.sprint.com	SNMPTraps:SNMP@@plsw0470.corp.sprint.com	13	0	0	0	13
ovpihpt5	jes21.corp.sprint.com	Batch-Prod	12	0	0	12	0
ovpihpt5	pvmk0027.corp.sprint.com	OpC	12	3	0	0	9
ovpihpt5	plsw0472.corp.sprint.com	SNMPTraps:SNMP@@plsw0472.corp.sprint.com	10	0	0	0	10
ovpihpt5	geosprpclgra	SNMPTraps:clear@@geosprpclgra	9	0	0	0	0
ovpihpt5	plsa0636.corp.sprint.com	OS:AIX@@plsa0636.corp.sprint.com	8	0	8	0	0
ovpihpt5	plss1986.corp.sprint.com	OpC	7	0	0	0	6





7 Configuration Reports

The OVO Report Pack includes two configuration reports:

1. Notification Channels

Lists the program, service, day, starting time and ending time for each Operations management server notification channel for the current and previous day.

2. Trouble Ticket Channels (see sample page 46)

Shows the program, on/off flag and time period for each Operations management server for the current and previous day.

OV Operations

Trouble Ticket Channel Configuration



Current Day			
OVO Server	Program	On/Off Flag	Time Period
ovpihpt5	/opt/OV/bin/OpC/extern_intf/sd_event.sh	ON	Tue, Jul 10 12:00 AM

Previous Day			
OVO Server	Program	On/Off Flag	Time Period
ovpihpt5	/opt/OV/bin/OpC/extern_intf/sd_event.sh	ON	Mon, Jul 9 3:20 PM
ovpihpt5	/opt/OV/bin/OpC/extern_intf/sd_event.sh	ON	Mon, Jul 9 3:21 PM

Appendix A: Import and Reporting Tables

This appendix contains the following tables:

- Import tables:
 - (1) History message table
 - (2) Active message statistics table
 - (3) Service log entries table
 - (4) Configuration entries table
- Reporting tables:
 - (5) History message property table
 - (6) History message data tables
 - (7) Consolidated message metrics by time interval
 - (8) Active message property table
 - (9) Active message data tables
 - (10) Active message metrics by time interval
 - (11) Service log property table
 - (12) Service log data tables
 - (13) Service log metrics by time interval

1. History Message Import Table

The following fields apply to OVO UNIX only. They do not apply to OVO Windows:

- APPLICATION_ID
- ESCALATE_FLAG
- IP_ADDRESS
- NOTIFY_SERVICES
- status_flag
- TEMPLATE_DESCRIPTION

Each field listed above is **bolded** in the table below.

R_OVO_MSG_BASE

K_OVO_MSG_BASE

OVPI Field	Type	OVO Table(s) HISTORY	OVO Table(s) ACTIVE	OVO Field
		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	CMA_FLAG
ACKN_AFTER_TT_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	ACKN_AFTER_TT_FLAG
ACKN_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	ACKN_TIME
ACKN_USER	Vchar(20)	OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	ACKN_USER
APPLICATION	Vchar(254)	OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	APPLICATION
APPLICATION_ID	Vchar(254)	Opc_msg_Messages	Opc_act_messages	APPLICATION_ID
AUTO_ACKN_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	AUTO_ACKN_FLAG
AUTO_ANNO_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	AUTO_ANNO_FLAG
AUTO_CALL		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	AUTO_CALL
AUTO_NODE_ID		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	AUTO_NODE_ID
AUTO_STATUS		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	AUTO_STATUS
cma_name		opc_MSG_cust_attrib	opc_act_cust_attrib	cma_name
cma_value		opc_MSG_cust_attrib	opc_act_cust_attrib	cma_value

OVPI Field	Type	OVO Table(s) HISTORY	OVO Table(s) ACTIVE	OVO Field
CONDITION_ID	Vchar(36)	OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	CONDITION_ID
DESCRIPTION	Vchar(254)	OPC_COND, OPC_TRAP_COND, OPC_MONITOR_COND	OPC_COND, OPC_TRAP_COND, OPC_MONITOR_COND	DESCRIPTION
DUPL_COUNT		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	DUPL_COUNT
ESCALATE_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	ESCALATE_FLAG
FORWARD		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	FORWARD
IP_ADDRESS		OPC_NODE_NAMES	OPC_NODE_NAMES	IP_ADDRESS
LAST_TIME_RECEIVED		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LAST_TIME_RECEIVED
LOCAL_ACKN_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_ACKN_TIME
LOCAL_AGT_CREATION_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_AGT_CREATION_TIME
LOCAL_CREATION_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_CREATION_TIME
LOCAL_LAST_TIME_RECEIVED		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_LAST_TIME_RECEIVED
LOCAL_RECEIVING_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_RECEIVING_TIME
LOCAL_RECEIVING_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_RECEIVING_TIME
LOCAL_UNBUFFER_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOCAL_UNBUFFER_TIME
LOG_ONLY_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	LOG_ONLY_FLAG
MESSAGE_GROUP		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MESSAGE_GROUP
MESSAGE_NUMBER		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MESSAGE_NUMBER
MESSAGE_TYPE		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MESSAGE_TYPE
MSG_GEN_NODE_ID		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MSG_GEN_NODE_ID
MSG_KEY		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MSG_KEY
MSG_SOURCE_NAME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MSG_SOURCE_NAME

OVPI Field	Type	OVO Table(s) HISTORY	OVO Table(s) ACTIVE	OVO Field
MSG_SOURCE_TYPE		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	MSG_SOURCE_TYPE
NODE_ID		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	NODE_ID
NODE_NAME	Vchar(64)	OPC_NODE_NAMES	OPC_NODE_NAMES	NODE_NAME
NOTIFICATION_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	NOTIFICATION_FLAG
NOTIFY_SERVICES		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	NOTIFY_SERVICES
OBJECT		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OBJECT
OP_INIT_ACKN_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OP_INIT_ACKN_FLAG
OP_INIT_ANNO_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OP_INIT_ANNO_FLAG
OP_INIT_CALL		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OP_INIT_CALL
OP_INIT_NODE_ID		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OP_INIT_NODE_ID
OP_INIT_STATUS		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	OP_INIT_STATUS
OVO_SERVER	Vchar(16)			
RECEIVING_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	RECEIVING_TIME
service_id		opc_notif_schedule	opc_notif_schedule	service_id
SERVICE_NAME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	SERVICE_NAME
SEVERITY		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	SEVERITY
status_flag		opc_trouble_ticket	opc_trouble_ticket	status_flag
TEMPLATE_DESCRIPTION	Vchar(254)	opc_tmpl_options	opc_tmpl_options	TEMPLATE_DESCRIPTION
TEMPLATE_ID	Vchar(36)	opc_tmpl_options	opc_tmpl_options	TEMPLATE_ID
TEMPLATE_NAME		opc_tmpl_options	opc_tmpl_options	TEMPLATE_NAME
TROUBLE_TICK_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	TROUBLE_TICK_FLAG
UNBUFFER_TIME		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	UNBUFFER_TIME
UNMATCHED_FLAG		OPC_MSG_MESSAGES	OPC_ACT_MESSAGES	UNMATCHED_FLAG

2. Active Message Import Table

R_OVO_ACT_BASE

K_OVO_ACT_BASE

Column Name	Data Type	Description	Source Table	Comment
OVO_SERVER	varchar(128)	OV server records were exported from		Created by export process
NODE_NAME (based on NODE_ID)	varchar(254) varchar2(1024)		OPC_NODE_NAMES	All records
NODE_ID (ID of node where event occurred)	varchar2(36)		OPC_ACT_MESSAGES	All records
APPLICATION	varchar2(254)	ONA records only	OPC_ACT_MESSAGES	ONA records only
SERVICE_NAME	varchar2(2048)	ONS records only	OPC_ACT_MESSAGES	ONS records only
MSG_GROUP	varchar2(32)	ONM records only	OPC_ACT_MESSAGES	ONM records only
OVO_GMT_OFFSET	number(12)			All records
CNT_MESSAGES	gauge/float	Count of current ACTIVE messages	OPC_ACT_MESSAGES	All records
CNT_UNKNOWN	gauge/float	With severity = 1 = unknown	OPC_ACT_MESSAGES	All records
CNT_NORMAL	gauge/float	With severity = 2 = normal	OPC_ACT_MESSAGES	All records
CNT_WARNING	gauge/float	With severity = 4 = warning	OPC_ACT_MESSAGES	All records
CNT_CRITICAL	gauge/float	With severity = 8 = critical	OPC_ACT_MESSAGES	All records
CNT_MINOR	gauge/float	With severity = 16 = minor	OPC_ACT_MESSAGES	All records
CNT_MAJOR	gauge/float	With severity = 32 = major	OPC_ACT_MESSAGES	All records
MIN_AGE_MSG	gauge/float	Minimum age of current ACTIVE messages	OPC_ACT_MESSAGES	All records
MAX_AGE_MSG	gauge/float	Maximum age of current ACTIVE messages	OPC_ACT_MESSAGES	All records

Column Name	Data Type	Description	Source Table	Comment
AVG_AGE_MSG	gauge/float	Average age of current ACTIVE messages	OPC_ACT_MESSAGES	All records
TOT_AGE_MSG	gauge/float	Total age of current ACTIVE messages	OPC_ACT_MESSAGES	All records
CNT_AGE_5_MIN	gauge/float	Messages less than 5 minutes old	OPC_ACT_MESSAGES	All records
CNT_AGE_5_10_MIN	gauge/float	>= 5 minutes and < 10 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_10_30_MIN	gauge/float	>= 10 minutes and < 30 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_30_60_MIN	gauge/float	>= 30 minutes and < 60 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_60_120_MIN	gauge/float	>= 60 minutes and < 120 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_120_720_MIN	gauge/float	>= 120 minutes and < 720 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_720_1440_MIN	gauge/float	>= 720 minutes and < 1440 minutes	OPC_ACT_MESSAGES	All records
CNT_AGE_GT_1440_MIN	gauge/float	> 1440 minutes	OPC_ACT_MESSAGES	All records
CNT_CURR_BUFFERED	gauge/float	Count current buffered messages	OPC_ACT_MESSAGES	All records
CNT_PREV_BUFFERED	gauge/float	Count messages previously buffered	OPC_ACT_MESSAGES	All records
CNT_DUPL_COUNT	gauge/float	Total duplicates received	OPC_ACT_MESSAGES	All records
CNT_DUPL_MSG	gauge/float	Count of messages receiving duplicates	OPC_ACT_MESSAGES	All records
CNT_ESCALATE_FLAG	gauge/float	Count flagged as escalated	OPC_ACT_MESSAGES	All records
CNT_AUTO_ACKN_FLAG	gauge/float	Count flagged as auto acknowledge	OPC_ACT_MESSAGES	All records
CNT_LOG_ONLY_FLAG	gauge/float	Count flagged as log only	OPC_ACT_MESSAGES	All records

Column Name	Data Type	Description	Source Table	Comment
CNT_NOTIFICATION_FLAG	gauge/float	Count flagged to send notification	OPC_ACT_MESSAGES	All records
CNT_TROUBLE_TICK_FLAG	gauge/float	Count flagged to generate trouble ticket	OPC_ACT_MESSAGES	All records
CNT_ACKN_AFTER_TT_FLAG	gauge/float	Count flagged to auto acknowledge after generating trouble ticket	OPC_ACT_MESSAGES	All records
APPLICATION_ID	Number	Unique ID for long application names	NA	ONA
NODE_IP_ADDR	Number	IP Address in long form	OPC_NODES	All records
SERVICE_NAME_ID	Number	Unique ID for long service names	NA	ONS

3. Service Log Import Table

R_OVO_SRVLOG_BASE

K_OVO_SRVLOG_BASE

Column Name	Data Type	Column Sample Data	OVO Source Table	Comment
SPLIT_FLAG	number			Created by export process
ORIG_TA_PERIOD	date	18/6/2007 10:03:43 PM		Created by export process
OVO_SERVER	varchar(128)			Created by export process
SERVICE_NAME	varchar2(2048)	SeM_SPI:Server@@nsprod01	OPC_SERVICE_LOG	
SEVERITY	number(3)	4	OPC_SERVICE_LOG	1. Unknown 2. Normal 4. Warning 8. Critical 16. Minor 32. Major
START_TIME	number(12)	1108624087	OPC_SERVICE_LOG	
LOCAL_START_TIME	date	4/5/2005 10:03:43 PM	OPC_SERVICE_LOG	TA_PERIOD
END_TIME	number(12)	1108624087	OPC_SERVICE_LOG	
LOCAL_END_TIME	date	4/5/2005 11:03:43 PM	OPC_SERVICE_LOG	
DURATION	number(12)	1108624087		Created by export process
OVO_GMT_OFFSET	number(12)			Created by export process
EXPORT_TIME	number(12)	1108594373		Created by export process

4. Configuration Import Table

The metrics in the following table are available from OVOU only. They are not available from OVOW. The following reports are affected:

- Notif_Channels.rep
- TT_Channels.rep

R_OVO_SRVLOG_BASE [?]

K_OVO_SRVLOG_BASE [?]

Column Name	OVOU Source Table	Comment
dsi_key_id_		Standard OVPI numeric element ID
ta_period		Standard OVPI time stamp
delta_time		Standard OVPI column not used in this case
ta_samples		Standard OVPI column. Always 1 in this case
OVO_SERVER		Created by export process
Type		Record type indicator TT or NOTIF
NOTIF_SVC_ID	Opc_notif_services	Service Identifier
NOTIF_SVC_NAME	Opc_notif_services	Notif Service Name
FLAG	opc_trouble_ticket	Active/Inactive
PROGRAM	Opc_notif_services	
opc_trouble_ticket	External program	
DAY	opc_notif_schedule	Day for Notif
STARTING	opc_notif_schedule	Start time for Notif channel
ENDING	opc_notif_schedule	End time for Notif channel

5. History Message Property Table

All OVO Consolidated Message summarized data tables are associated with the K_OVO_MSG property table K_OVO_MSG.

Column Name	Data Type	Population Method
dsi_key_id		Maintained by OVPI
dsi_target_name		Record type indicator based on trend_sum by variables: O: OVO_SERVER ON: OVO_SERVER - NODE_NAME OA: OVO_SERVER - APPLICATION OS: OVO_SERVER - SERVICE_NAME OM: OVO_SERVER - MSG_GROUP OU: OVO_SERVER - ACKN_USER OT: OVO_SERVER - TEMPLATE OTD: OVO_SERVER - TEMPLATE - DESCRIPTION ONA: OVO_SERVER - NODE_NAME - APPLICATION ONS: OVO_SERVER - NODE_NAME - SERVICE_NAME ONM: OVO_SERVER - NODE_NAME - MSG_GROUP All Msgs (executive summary across all messages) A: APPLICATION S: SERVICE_NAME M: MSG_GROUP U: ACKN_USER T: TEMPLATE TD: TEMPALTE - DESCRIPTION N: NODE NT: NODE - TEMPLATE NS: NODE - SERVICE NA: NODE - APPLICATION NM: NODE - MSG GROUP

Column Name	Data Type	Population Method
dsi_table_key		Due to custom rollup, all by variables, except for GRP_LEVEL and the interval by variable, are concatenated and inserted into dsi_table_key
dsi_status	number(3,0)	Specifies the global status attribute for the managed object. The default value is 2.
dsi_status_time	date	Contains the timestamp of the last status. The default value is the current time.
dsi_descr		Set to same value as dsi_table_key
GRP_LEVEL		Same as dsi_target_name
OVO_SERVER	Varchar(128)	trend_sum populates based on by variable "OVO_SERVER"
NODE_NAME	Varchar(254) Varchar2(1024)	trend_sum populates based on by variable "NODE_NAME"
APPLICATION	Varchar2(254)	trend_sum populates based on by variable "APPLICATION"
SERVICE_NAME	Varchar2(2048)	trend_sum populates based on by variable "SERVICE_NAME"
ACKN_USER	Varchar2(20)	trend_sum populates based on by variable "ACKN_USER"
MESSAGE_GROUP	VARCHAR(255)	trend_sum populates based on by variable "MSG_GROUP"
MSG_SOURCE_NAME	VARCHAR(255)	trend_sum populates based on by variable "TEMPLATE"
APPLICATION_ID	number	Unique hash for application
COND_DESCRIPTION_ID	number	Unique hash for condition description
SERVICE_NAME_ID	number	
CONDITION_DESCR	VARCHAR(255)	trend_sum populates based on by variable "CONDITION"
OTHER standard columns found in OVPI RPs		

6. History Message Data Table

Destination Table	Rollup Processing Populating Table
SH_OVO_MSG	Populated by several roll-up combinations: SH_OVO_MSG. <i>nnn</i>
SD_OVO_MSG	Populated by trend_sum using SD_OVO_MSG.sum
SW_OVO_MSG	Populated by trend_sum using SW_OVO_MSG.sum
SM_OVO_MSG	Populated by trend_sum using SM_OVO_MSG.sum

7. Consolidated Message Metrics by Time Period

Metric	Hour	Day	Week	Month
CNT_MESSAGES	X	X	X	X
CNT_UNKNOWN	X	X	X	X
CNT_NORMAL	X	X	X	X
CNT_WARNING	X	X	X	X
CNT_CRITICAL	X	X	X	X
CNT_MINOR	X	X	X	X
CNT_MAJOR	X	X	X	X
MIN_RECEIVE_DELAY	X	X	X	X
MAX_RECEIVE_DELAY	X	X	X	X
AVG_RECEIVE_DELAY	X	X	X	X
TOT_RECEIVE_DELAY	X	X	X	X
MIN_AGE_MSG	X	X	X	X
MAX_AGE_MSG	X	X	X	X

Metric	Hour	Day	Week	Month
AVG_AGE_MSG	X	X	X	X
TOT_AGE_MSG	X	X	X	X
CNT_AGE_5_MIN	X	X	X	X
CNT_AGE_5_10_MIN	X	X	X	X
CNT_AGE_10_30_MIN	X	X	X	X
CNT_AGE_30_60_MIN	X	X	X	X
CNT_AGE_60_120_MIN	X	X	X	X
CNT_AGE_120_720_MIN	X	X	X	X
CNT_AGE_720_1440_MIN	X	X	X	X
CNT_AGE_GT_1440_MIN	X	X	X	X
CNT_PREV_BUFFERED	X	X	X	X
CNT_DUPL_COUNT	X	X	X	X
CNT_DUPL_MSG	X	X	X	X
CNT_ESCALATE_FLAG	X	X	X	X
CNT_AUTO_ACKN_FLAG	X	X	X	X
CNT_LOG_ONLY_FLAG	X	X	X	X
CNT_NOTIFICATION_FLAG	X	X	X	X
CNT_TROUBLE_TICK_FLAG	X	X	X	X
CNT_ACKN_AFTER_TT_FLAG	X	X	X	X

8. Active Message Property Table

All OVOu Active Message summarized data tables are associated with the K_OVO_ACT property table.

K_OVO_ACT

Column Name	Data Type	Population Method
dsi_key_id		Maintained by OVPI
dsi_target_name		ON: OVO_SERVER - NODE_NAME OS: OVO_SERVER - SERVICE_NAME OM: OVO_SERVER - MSG_GROUP ONA: OVO_SERVER - NODE_NAME - APPLICATION ONS: OVO_SERVER - NODE_NAME - SERVICE_NAME ONM: OVO_SERVER - NODE_NAME - MSG_GROUP All Msgs executive summary across all messages A: APPLICATION S: SERVICE_NAME M: MSG_GROUP
node_id	varchar2(128)	Unique ID of node where event occurred.
dsi_status	number(3,0)	Specifies the global status attribute for the managed object. The default value is 2.
dsi_status_time	date	Contains the timestamp of the last status. The default value is the current time.
dsi_table_key		Due to custom rollup, all by variables, <u>except</u> for GRP_LEVEL and the interval by variable, will be concatenated and inserted into dsi_table_key
dsi_descr		NULL. Not used
GRP_LEVEL		Same as dsi_target_name
OVO_SERVER	varchar(128)	trend_sum populates based on by variable "OVO_SERVER"
NODE_NAME	varchar(254) archar2(2048)	trend_sum populates based on by variable "NODE_NAME"

Column Name	Data Type	Population Method
APPLICATION	varchar2(254)	trend_sum populates based on by variable "APPLICATION"
SERVICE_NAME	varchar2(2048)	trend_sum populates based on by variable "SERVICE_NAME"
MSG_GROUP	varchar2(32)	trend_sum populates based on by variable "MSG_GROUP"
APPLICATION_ID	Number	Unique hash for the application
SERVICE_NAME_ID	Number	Unique hash for the service
OTHER standard columns found in OVPI RPs		

9. Active Message Data Table

Destination Table	Rollup Processing Populating Table
SH_OVO_ACT	Populated by several roll-up combinations: SH_OVO_ACT.nnn
SD_OVO_ACT	Populated by trend_sum using SD_OVO_ACT.sum
SW_OVO_ACT	Populated by trend_sum using SW_OVO_ACT.sum
SM_OVO_ACT	Populated by trend_sum using SM_OVO_ACT.sum

10. Active Message Metrics By Time Interval

Metric	Hour	Day	Week	Month
CNT_MESSAGES	X	X	X	X
CNT_UNKNOWN	X	X	X	X
CNT_NORMAL	X	X	X	X

Metric	Hour	Day	Week	Month
CNT_WARNING	X	X	X	X
CNT_CRITICAL	X	X	X	X
CNT_MINOR	X	X	X	X
CNT_MAJOR	X	X	X	X
MIN_AGE_MSG	X	X	X	X
MAX_AGE_MSG	X	X	X	X
AVG_AGE_MSG	X	X	X	X
TOT_AGE_MSG	X	X	X	X
CNT_AGE_5_MIN	X	X	X	X
CNT_AGE_5_10_MIN	X	X	X	X
CNT_AGE_10_30_MIN	X	X	X	X
CNT_AGE_30_60_MIN	X	X	X	X
CNT_AGE_60_120_MIN	X	X	X	X
CNT_AGE_120_720_MIN	X	X	X	X
CNT_AGE_720_1440_MIN	X	X	X	X
CNT_AGE_GT_1440_MIN	X	X	X	X
CNT_CURR_BUFFERED	X	X	X	X
CNT_PREV_BUFFERED	X	X	X	X
CNT_DUPL_COUNT	X	X	X	X
CNT_DUPL_MSG	X	X	X	X
CNT_ESCALATE_FLAG	X	X	X	X
CNT_AUTO_ACKN_FLAG	X	X	X	X
CNT_LOG_ONLY_FLAG	X	X	X	X

Metric	Hour	Day	Week	Month
CNT_NOTIFICATION_FLAG	X	X	X	X
CNT_TROUBLE_TICK_FLAG	X	X	X	X
CNT_ACKN_AFTER_TT_FLAG	X	X	X	X

11. Service Log Property Table

All OVOu Service Log summarized data tables are associated with the K_OVO_SRVLOG property table.

K_OVO_SRVLOG

Column Name	Population Method
dsi_key_id	Maintained by OVPI
dsi_target_name	trend_sum populates based on by variable "OVO_SERVER"
dsi_table_key	trend_sum populates based on by variable "SERVICE_NAME"
dsi_descr	NULL. Not used
OVO_SERVER	trend_sum populates based on by variable "OVO_SERVER"
SERVICE_NAME	trend_sum populates based on by variable "SERVICE_NAME"

12. Service Log Data Tables

The following OVOu Service Log rollup tables are used for reporting:

Destination Table	Rollup Processing Populating Table
SD_OVO_SRVLOG	populated by trend_sum using SD_OVO_SRVLOG.sum
SW_OVO_SRVLOG	populated by trend_sum using SW_OVO_SRVLOG.sum
SM_OVO_SRVLOG	populated by trend_sum using SM_OVO_SRVLOG.sum

13. Service Log Metrics by Time Interval

Metric	Day	Week	Month
CNT_MESSAGES	X	X	X
DURATION_TOTAL	X	X	X
DURATION_UNKNOWN	X	X	X
DURATION_NORMAL	X	X	X
DURATION_WARNING	X	X	X
DURATION_CRITICAL	X	X	X
DURATION_MINOR	X	X	X
DURATION_MAJOR	X	X	X

B PI Report Packs

Business Technology	Reporting Solution
Application Server	<ul style="list-style-type: none"> • Application Server Report Pack <ul style="list-style-type: none"> — WebLogic SPI — WebSphere SPI
Database SPI	<ul style="list-style-type: none"> • Database Report Pack
HP Business Process Insight	<ul style="list-style-type: none"> • BPI Report Pack
HP Internet Services	<ul style="list-style-type: none"> • Internet Services Report Pack
HP Network Node Manager	<ul style="list-style-type: none"> • NNM Event & Availability Report Pack
HP Service Desk	<ul style="list-style-type: none"> • Service Desk Report Pack • Change Management Report Pack • SLM Integration Report Pack
HP Sitescope	<ul style="list-style-type: none"> • Sitescope Report Pack
IP Telephony	<ul style="list-style-type: none"> • Cisco IP Telephony Call Detail • Cisco IP Telephony Gateway Statistics
MPLS VPN	<ul style="list-style-type: none"> • MPLS VPN Report Pack
Networking	<p>Traffic Profiling</p> <ul style="list-style-type: none"> • RMON II • NetFlow Interface • NetFlow Global View • IP QoS Report Pack • Class-Based QoS Report Pack <p>Quality Assurance</p> <ul style="list-style-type: none"> • Cisco Ping • Service Assurance • IP Access Rate <p>Infrastructure Usage</p> <ul style="list-style-type: none"> • Interface Reporting • Device Resource

Business Technology	Reporting Solution
Networking (con't)	<p>LAN/WAN Edge</p> <ul style="list-style-type: none"> • Frame Relay (SNMP only) • ATM (SNMP only) <p>WAN Core</p> <ul style="list-style-type: none"> • Frame Relay (multiple switch vendors) • ATM (multiple switch vendors)
System Resources	<ul style="list-style-type: none"> • System Resource Report Pack

C Version History

Version/date released	New features and defect fixes
1.0 / May 2006	Total of 47 reports: Active folder (14) Message Weekly folder (3) Config folder (2) Message folder (27) Service Log folder (1) The OVOu Datapipe 1.0 collects data from: <ul style="list-style-type: none">• OVOu 7.0• OVOu 8.0
1.1 / April 2007	<i>new features:</i> Location Independent Reporting (LIR) <i>new datapipe:</i> OVOu Datapipe 1.1 <i>defect fixes:</i> <ul style="list-style-type: none">• QXCR1000401476: Mapping between managed_nodes and Customers & Locations• QXCR1000371765: OVO RP update_OVO_MSG_props.sql hanging on Oracle.• QXCM1000353122: OVOu datapipe not collecting data.• QXCR1000381445: Multiple issues with OVOu datapipe.• QXCR1000384269: OVO datapipe problem when multiple cma pairs.
1.2 / October 2007	<i>new datapipe:</i> <ul style="list-style-type: none">• OVO Datapipe 1.2 <i>new data collection:</i> <ul style="list-style-type: none">• OVOw 7.5• OMu 8.0 <i>new upgrade package:</i> <ul style="list-style-type: none">• UPGRADE_OVO_to_12.p

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