

Introducing HP OpenView VantagePoint Internet Services (VP-IS)





Visit VP-IS Interactive website http://ovweb1.external.hp.com/nnminteract/ovis-main.htm



HP OPENVIEW

What is VP Internet Services 2.0?

- For companies that provide business-critical internet services
- Measure, monitor and report against service level agreements
- Provides end-to-end service assurance by proactively managing availability and performance
- Reduce Mean-time-to-Repair the service through tight linkage between internet services monitoring and troubleshooting





Overview

- Users engage many internet services (HTTP, DNS, etc.) in everyday use, generally without any knowledge of the service
- But poor service performance gives user a poor experience
- High service availability and performance is key to making the user experience satisfying







The industry's most complete "<u>Active</u>" monitoring probe technology solution lets you pinpoint the source of the service problem

- The active software probes detect and automatically alarm whenever end-to-end response time SLOs are violated
- Builtin reports help you quickly determine system application related problems
- Integration with VP Operation's templates point to problems on mission critical servers



Integration with NNM Event Correlation Services allow quick determination of network or application problems and "root cause analysis" for network failures.

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Why HP OpenView VantagePoint Internet Services 2.0 is the right choice

- Tight integration with HP OV troubleshooting tools increases service availability
- Tight integration with HP OV reporting tools for consistent look-and-feel
- At-a-glance health summary information
- Automatic baselining gives your more intelligent alarms
- Support of leading-edge technologies such as WAP
- Support is all from HP (no 3rd party support ₅ needed)





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Easy licensing model

- One license needed per managed server (independent as to how many services run on them)
- Software probes are not licensed
- No separate license for the measurement server

You only pay for what you want to manage!







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Product Structure and Pricing —

J5100AA	HP OV VantagePoint Internet Services 2.x Enterprise Server LTU	\$ 11,995.00
J5101AA	HP OV VantagePoint Internet Services 2.x Datacenter Server LTU	\$ 4,995.00
J5102AA	HP OV VantagePoint Internet Services 2.x Advanced Server LTU	\$ 1,995.00
J5103AA	HP OV VantagePoint Internet Services 2.x Server LTU	\$ 995.00
J5104AA	HP OV VantagePoint Internet Services 2.x Media/Manual	\$ 195.00

Tier classification of the server (see ESP, keyword "ovtierm")





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Ordering Example

Customer wants to test from 35 NT-based probe locations

- 12 HTTP servers (2 Sun Enterprise 5500, 10 NT w/ 4 CPUs)
- 4 DNS (Sun Enterprise 450)
- 5 servers running FTP and NNTP (NT w/ 8 CPUs)

The following needs to be ordered:

- 1 J5104AA (media and manuals)
- 2 J5101AA (VPIS Datacenter License) for Sun 5500
- 10 J5103AA (VPIS Server License) for NT w/ 4 CPUs
- 4 J5102AA (VPIS Advanced License) for Sun 450
- 5 J5102AA (VPIS Advanced License) for NT w/ 8 CPUs



- **NOTE: no charge for software probes**
 - no charge for VPIS measurement server
 - charge per managed server (independent of the number of services running)

HP OpenView VantagePoint Internet Services HP OPENVIEW HD OPENVIEW HD OPENVIEW HOW YOU Should deploy VP Internet Services 2.0

- Only one measurement server needed (only runs on NT)
- Deploy the software probes to the points in the network from where the response time should be measured
- Measure the response time of several servers (e.g. HTTP, DNS, FTP ...) from one probe system
- VP Internet Services 2.0 can run standalone, but it can also be integrated into NNM and VP Operations





Overview

- **VP-IS** actively probes services to measure their performance and availability. Examples:
 - % of time service is available
 - Time to set up a transaction
 - Time to complete a transaction
 - % of successful completion of transaction
- Data from the probe(s) go to the database on the **VP-IS** server







Overview (cont'd)

- The **VP-IS** server offers a web interface for viewing the data, with tabs for:
 - Snapshot view
 - Availability view
 - Response Time view
 - Service Level Violations view
 - Reports view
- Details on these views in a moment







Overview (cont'd)

- Alarms can also be sent to NNM or ITO for fault diagnosis
- Integration with NNM creates new map symbols for customers and the services they receive
 - Symbol status colors reflect alarm status of monitored services









Overview

- **VP-IS** lets you structure the services by customer and service groups.
 - E.g. ISP has multiple customers
 - Each customer has service groups with specific service targets (e.g. URLs, DNS servers, etc).
 - VP-IS summarizes data by customer and service group







Snapshot View (Overview (cont'd))

- Top-level Summary info, intuitively presented
- Three meters:
 - <u>Availability</u> (avg. % of time service has been available)
 - <u>Response Time</u> (avg. service completion time)
 - <u>Service Level Violations</u> (% of SLOs tested that were in violation)

• Graphs:

- Response Time (request setup, and total)
- Service availability per time-slot
- Service Level Violations per service







Availability View (Overview (cont'd))

- Shows service availability bar charts, grouped by:
 - Customer
 - Service Group
 - Shift (8-hr period)
- Each bar shows % of time the service was responding







Response Time View (Overview (cont'd))

- Shows service responsetime bar charts, grouped by:
 - Customer
 - Service Group
 - Shift (8-hr period)
- Each bar shows average time the service took to complete a transaction
- Bar segments show response time components







Service Level Violation View

(Overview (cont'd))

- Shows service violations bar charts, grouped by:
 - Customer
 - Service Group
 - Shift (8-hr period)
- Each bar shows percentage of samples whose value violated an SLO threshold (details on SLOs later)







Reports View (Overview (cont'd))

- Based on a light version of Service Reporter
- Top-level provides links to detailed reports on:
 - All service types
 - Service Level Objectives
- Reports generated nightly using data from longer time periods than the other online displays







Drill Down Reports (Overview (cont'd))

- Top-level views (Snapshot, Availability, Response Time, Service Level Violation) offer "Drill-down" and "Trend" reports that provide additional levels of detail
 - e.g., a drill-down report on SLO violations viewed by Service Group (DNS, FTP, etc.)







Nuts and Bolts

Hardware and Software Requirements





System Requirements

• Hardware

- Intel Pentium class, 300MHz or faster processor with 128MB of memory or more recommended
- 60MB of disk space is required initially, with possible increases as more data is added
- Report generation may temporarily require an additional 50MB to 400MB





System Requirements

- Software
 - Microsoft NT 4.0 (Server or Workstation) with Service Pack 3, 4 or 5
 - Microsoft IIS 4.0 Web Server (from Option Pack 4)
 - 200MB or more virtual memory on the VP-IS station
 - Systems running other applications may require larger virtual memory settings to accommodate VP-IS in addition to the other applications
 - NNM 6.0 or above (if integrating with NNM)





Implementation Summary (or, "How to Make VP-IS Work")

- Install **VP-IS** on a Windows NT system
 - Optionally, integrate with NNM and/or ITO
- Configure VP-IS probe(s) to measure services – Probe can be local (on VP-IS station), or remote
- The probe(s) poll for service availability and performance, and send data to **VP-IS** station
- User views VP-IS generated reports, responds to VP-IS performance/availability alarms in NNM or ITO





Licensing VP-IS

- Runs 60-day evaluation if not licensed
 - 15.*.* exempt from licensing
- Instructions in package tell where to obtain license key
 - Open the License dialog
 - Enter license string; press OK
- Temporary key available (after evaluation period expires) from HP support







Monitored Services

- **VP-IS** has probes to monitor availability and performance of several key Internet services:
 - •HTTP (Web pages)
 - •HTTPS (Secure web pages)
 - •WAP (Wireless access protocol)
 - •FTP (Remote file transfer)
 - •DNS
 - (Domain name service)

invent

•ICMP (ping-based connectivity test)

- •RADIUS (Remote authentication)
- •SMTP (Sending mail to a server)
- •POP3 (Getting mail from a server)
- •NNTP
 - (Pulling news headers, articles)



- A probe emulates a user request for a service
- The probe finds out if the service is available, and takes service-specific performance measurements
 - E.G., the HTTP probe requests a web page, and measures request setup time, transfer time, and total response time (plus several finer-grained protocol steps)
- Default polling interval is 5 minutes





HTTP and HTTPS probes

- Can use a proxy if desired
- Supports standard HTTP authentication
- By default, do not download embedded images and frames
- Can match returned HTML with a pattern to find out if desired page was returned, or an error (page not found, etc)







Structure of Services in VP-IS







Structure of Services in VP-IS (cont'd)

- "Customer" is a client whose services will be tracked
- Service Group
 - A named container used to group one or more service elements that make up a service provided to the customer
 - One service only (HTTP, DNS, etc.) per service group
 - "University of Malacca" has two service groups:
 - one named "DNS" has service target, objectives, and probe to test the DNS server that provides UM's internet DNS service
 - one named "Web Presence" has service targets, objectives, and probes to test all the HTTP servers that host UM's web presence





Structure of Services in VP-IS (cont'd)

- Service Target
 - The origin for all or part of the service named by a Service Group
 - Polled by a VP-IS probe for service measurements
- Service Level Objective (SLO)
 - Defines the criteria to determine if the service provided by a target is available and is performing acceptably
- Probe Location
 - the location of the measurement process that measures the performance of one or more service targets





Configuring VP-IS

- Three approaches:
 - Wizard
 - for step-by-step set up of Internet service monitoring
 - simple to use, but not fast in large environments
 - Configuration manager
 - straightforward manipulation of **VP-IS** configurations
 - Configuration command line
 - for bulk configuration
 - requires understanding of XML
 - fast (once set up), but not simple





Configuration Steps (Configuring VP-IS cont'd)

- 1. Creating a Customer
 - Requires only a name ("University of Malta")

Customer	Information	×
Ŷ	Customer Name University of Malta	OK Cancel
		Help

- 2. Creating one (or more) Service Groups
 - Each requires a name ("Dial-in Authentication Service") and a service type ("RADIUS")

Create Service	Group	×
89	Service Group Name Dial-in Authentication Service	OK Cancel
	Monitored Service RADIUS - Authentication Service	- -
	FTP - File Server HTTP - Web Pages	
	ICMP - TCP/IP Availability (ping) POP3 - Mail Server SMTP - Mail Service	
	NNTP - News Service WAP - Wireless Service RADIUS - Authentication Service	





Configuration Steps (Configuring VP-IS cont'd)

- 3. Defining Service Target(s), Service Objective(s), and Probe Location(s) for each Service Group
 - the specific information needed to configure the target(s) depends on the service type of the Service Group
 - information for probe configuration includes location, polling interval, timeout, and any proxy information
 - configuring a service objective is covered in detail shortly







Defining Service Targets (Configuring VP-IS cont'd)

HTTP - Web Pages Information

Load Images and Frames 🔽

/eb Server Port 80

(e.g. "www.hp.com")

http:// www.britishairwaves.com 🔻 /lightWaving/startJrn.jhtml

Pattern

<none>

-Address (URL)-

Screen Content

• Example: HTTP

Loading images, advertisements, etc. mimics the user experience, and is the default. But this material often comes from diverse servers, not the target server. By not loading this screen content, you get a more focussed measure of the target server's performance.

Pattern matching permits content validation to determine if desired page was fetched, or an error Specify non-standard port numbers and user logon information as necessary

Target URL

(e.g. "/country/us/eng/supportservices.htm")

User Information

Password

User <none>

0K

Pattern Matching Information

Pattern Matching Settings

"British Airwaves" -"Error 404"



Cancel



Defining Probe Locations







Defining Service Objectives (Configuring VP-IS cont'd)

- Sets up the measurement tests to be performed against the data from targets defined in this service group
 - Only tests data collected by the probes defined in this service group

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Defining Service Objectives

Select the metric you want to measure. Metrics offered vary by service type.	Objective Information Metric Metric to be evaluated AVAILABILITY Service Level	Cancel Help
Define the acceptable level of performance for the metric: the "Service Level Objective"	Alarms Duration 10 Max Scale Value 100 100 100 90 100 100 10	Units Percent Percent Percent Percent
Set alarm values, typically below the SLO violation level	Critical < 90 Use historical baseline in addition to thresholds to trigger alarms: 80 Message HTTP Service is unavailable Objective Activity Times	Percent percent
Define when (the hours and days) to take measurements	 Always monitor Monitor at specific times Monitor at specific times Tuesday Tuesday Wednesday Stop alarming 5:00:00 PM Friday 	Saturday Sunday
		38



Defining Service Objectives

- The <u>Service Level Objective</u> (SLO) is independent of Alarms
 - An SLO violation is stored in the VP-IS database, but does not *itself* send an alarm
- <u>Alarms</u> are independent of the SLO
 - Not stored in the VP-IS database
 - Sent to a destination that can receive and process alarms, like NNM or ITO
- **Duration** is the time this metric must exceed an alarm threshold before the alarm is sent

Metric	Metric to b	e evalua ITY	ated		.		Cancel
	,						Help
Service Level-							
		- <u>I</u> -	Servi	ce Lev	el Objective	> 90	Percent
Alarms							
uration 10) minutes		— Alam	Band			— — Linite ——
Max Si	cale Value	100	100		Normal	> 90	Percent
		, 	, 90		Warning	> 90	Percent
		- <u>j</u> -	90	5	Minor	> 90	Percent
		-1-	90	5	Major	> 90	Percent
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Defining Service Objectives

- Create custom messages for alarms as desired
- Variables convey specifics about each alarm
 - For example, <VALUE> inserts the current value of the metric into the alarm message
 - Several other variables are available; see the online help for details
- Activate monitoring of this metric based on known usage patterns to reduce unnecessary data collection

Metric				OK
Metric to be	Cancel			
RESPONSE	E_TIME	•		Cancer
				Help
Service Level				
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		< warning	4 - -	Seconds
	4	< Minor	< 6 -	Seconds
	6	< Major	< 10	Seconds
	_	Critical	> 10	Seconds
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Objective Activity Times				
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start alarming [12:		M Wed ■ Thurs	nesday vdau	
Stop alarming 12:	00:00 AM 🕂		, aay	





Service Alarms (Configuring VP-IS cont'd)

- Be sure to configure the alarm destinations ("targets")
 File⇒ Configure⇒ Alarm Destinations
- VP-IS can send its alarms to:
 - HP OpenView NNM
 - HP OpenView IT/Operations
 - generic SNMP management servers
- NNM and ITO integration covered later

Internet Services Configuratio	n Manager
ile <u>V</u> iew Action <u>H</u> elp	
Configure	Alarm Destinations
Save Probe Config Info Ctrl+S	Dashboard Transing
E <u>x</u> it	
Configure Alarm Targets	X
Alarm Targets ✓ Event DB (e.g. NNM ✓ SNMP	Integration)
TT/Operations TT/Operations TT/Operations Proxy	Help
SNMP	
Target SNMP System scalawag Community Name Port public 162	IT/Operations ITO Prefix VPIS





User's Overview of VP-IS

• Common Features of the Web Interface Pages







- Used to filter the data into smaller subsets
 - Used in combination to zero-in on detailed information
 - Filter selections carry over between views
 - The less filtering is done (e.g., all customers, all services, 30-day interval), the more processing time required





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Service Level Violation Meter

(The Snapshot View, cont'd)

20 20 10 12.5 10 Percent		• Shows the percentage of all metrics (in current interval) that violate an SLO							
		Response Time SLO:< 0.5 sec ()Critical Alarm Threshold:> 1.0 sec ()							
	Service Level Violation	Time 0)	Time	1	Time	2	Time	; 3
Ŀ	pat.com	0.7 🤇	D	0.3		1.8	🛈 🗰	0.3	
arge	kim.com	0.3	1/	0.3	0/	0.7	<mark>;</mark> 2/	0.4	0/
F	lou.com	0.3	33%	0.2	0%	0.3	-7 ₃ 67%	0.2	0%
	Service Level Violation Meter Reading		1/ ₃ 33%		1/ ₆ 17%		³ / ₉ 33%		³ / ₁₂ 25%







Response time variations during the snapshot interval

W hich service types experience the most (or few est) service violations?

D istribution of service availability over snapshot interval



Available

Unavailable

10:10 - 05/03/00 14:00 (4 Hours)

0.0~

DNS - Domain Name Server

125

Service Level Violation

41.67%





What is the Status of Services for "Akimbo Research"?









- Two modes let you send **VP-IS** alarms to **ITO** :
 - IT/Operations
 - The default, sends alarms to ITO with the **VP-IS** server name set in the **opcmsg** node attribute
 - **VP-IS** server must be configured in the ITO node bank
 - IT/Operations (proxy)
 - Sets the **opcmsg** node attribute to the IP-address of the target
 - All target nodes must be configured in the ITO node bank





Internet Services Configuration Manager

Alarm Destinations

Dashboard Tracing

License

View Action Help

Save Probe Config Info Ctrl+S

AKIMAO RESEATCI

Configure

Exit

- ITO integration sets the opcmsg application attribute with this prefix
- ITO integration also sets the opcmsg message group attribute to: <ITO Prefix> <Probe Name> For example:

VPIS ICMP

Configure Alarm Destinations Alarm Targets Event DB (e.g. NNM Integration) SNMP VPIS HTTP IT/Operations IT/Operations IT/Operations Proxy So you can, e.g., create message groups IT/Operations SNMP for all monitored services, or set up a TO Prefix Community Name Port VPIS. message template with specific



conditions

ΠK.

Cancel

Help



- 1. Add the **VP-IS** server to the **ITO** node bank
- 2. Install an ITO agent on the VP-IS server
- 3. If proxy mode, add target nodes to ITO node bank

 Ensure node(s) belong to a node group and are added to the ITO administrator/operator Responsibility matrix
- 4. Add the opcmsg(1|3) message template to the VP-IS server node and distribute this template
- 5. Test: opcmsg a=VPIS o=VPIS_Test msg_text="Test"
- 6. Set the **VP-IS** alarm destination as shown earlier











- NNM integration lets you send VP-IS alarms to NNM
- NNM integration adds VP-IS information to serviceproviding nodes in NNM submaps
 - New symbols under such nodes represent
 - **Customers** to which the node provides services
 - Services provided those customers
 - Service Level Objectives of each service
- Integration also populates views in *Customer Views*, if present





• Requirements

- NNM version 6.0 or higher
 - Customer Views for NNM is optional
- IP submaps must be persistent to all levels
 - On Windows NT, the persistence default is not suitable
 - See NNM's A Guide to Scalability and Distribution
 - Chapter 2: background about on-demand submaps and persistence
 - Chapter 4: instructions for changing the level of persistence
 - Potentially requires additional memory to maintain NNM performance





1. Ensure that **VP-IS** is fully installed and operational, to create a **VP-IS** server with which to integrate

Remaining steps occur at the <u>NNM</u> station(s) you want to integrate with

- 2. Set submap persistence to "All Levels" (if necessary)
- 3. Install integration package using instructions on **CD-ROM** cover
- 4. Start NNM as usual





• What's new:

- New Alarm category
 - Default destination for VP-IS alarms
- New menu
 - Items for obtaining details on VP-IS tagged nodes, and for launching VP-IS interface
- New symbols in submaps to represent VP-IS customers, services, and service-level objectives





Alarms

(Integrating NNM and VP-IS, cont'd)

- Alarms in this category originate from the **VP-IS** system
- VP-IS alarms work the same as other NNM alarms
 - Use standard NNM methods to configure and manage them as necessary
 - Acknowledge or delete them as usual
 - Acknowledging/deleting an alarm does <u>not</u> change the status of the associated service objective symbol in the map (described later)







Internet Services Menu (Integrating NNM and VP-IS, cont'd)

- Rebuild Internet Services Symbols
 - Rebuilds the VP-IS-added symbols in the map according to the current data
- Node Details
 - Show all details VP-IS has about a selected node
- Remaining items launch **VP-IS** dashboard as indicated
 - If using Netscape Navigator on Windows NT, dashboard items (excepting "All") are broken









Internet Services Symbols (Integrating NNM and VP-IS, cont'd)

- The node-level submap of a VP-IS target node, if in the NNM management domain, gets new symbols that represent customers receiving services from the node
- Service symbols in the customer's child submap represent the services provided to that customer by this node







Internet Services Symbols (Integrating NNM and VP-IS, cont'd)

- In response to an alarm from VP-IS, NNM creates a symbol to represent the SLO sending the alarm
- SLO-symbol color reflects alarm severity
- SLO-symbol names can be long
 - Use Panner (or, on NT, rightclick on symbol) for more readable view







Batch Configuration (Scalability and Distribution, cont'd)

- Consider batch configuration when:
 - Large numbers of services to target
 - Targets available in some machine-readable form
- Create a tool to reformat the targets and feed them into the **VP-IS** batch configuration interface
- Use batch interface to save **VP-IS** configurations(and potentially distribute to other **VP-IS** installations)





Batch Configuration (Scalability and Distribution, cont'd)

- The **IOPSload** program is the batch configuration interface
 - **IOPSload** uses **XML** to define configurations
 - Command options:
 - -save <file> :stores current configuration into <file> of XML
 - -load <file> :adds configuration data in <file> of XML to
 current configuration (does not replace current configuration)
 - -check :verifies syntax of <file> of XML
 - -remove <file> :removes configuration data defined in <file>
 of XML from current configuration





Remote Probes

(Scalability and Distribution, cont'd)

- Manual process in the first release
 - Transfer certain binaries from the local VP-IS management station to the remote computer where the probe is wanted
 - Transfer configuration information created on the local
 VP-IS management station to the remote computer
 where the probe is wanted
 - Start up the remote probe





Case Study - VantagePoint Internet Services



Internal E-Services

Service LevelM anagem ent

Configuration / Change

Heþ Desk

Service Reporting







Jim's Challenge: End-to-end service response time analysis per customer

- Empower his operators, help desk staff and account managers with the tools for managing internet service levels
- How can he leverage existing troubleshooting tools while providing staff with at-a-glance information by customer and by service?

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Example – customer care

🔁 To Do Overview Specialist		
Specialist MILLT Thomas Miller		
Startdate 24/10/1998 to 26/10/ Pool FMSLOC2 Image: Constraint of the second	Internet HP OpenView Services Snapshot Availability Response Time Service Level Violations Reports	
Workorders Service calls Problem	All Customers All Customers All Customers All Customers All Customers All Customers All Services	
Nr. Status Description 9639 REGISTERED Hardware Failure 9625 DISPATCHED Unix netconfig needs i 9585 REGISTERED Oracle OPS\$ database Image: Comparison of the second seco	$ \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	
Help Select all Deselect M	Availability Response Time Response Time Components 0.8 0.4 0.0 12:00 13:00 14:00 15:00 18:00 Setup Time Completion Time	
-1.Trouble ticket	Service Samples 100 50 12:00 13:00 14:00 15:00	
	-2.W ho is affected. -3.W am custom ers	66



Example – account manager





-2.SLA CreditManagement

HP OPENVIEW HOW VPIS compares to Micromuse ISM

• VPIS shows monthly, weekly and daily trend reports based on historical measurement data; this allows the users to get out of the firefighting mode to become proactive

Micromuse only does neartime alarming but no historical trend reporting

• VPIS offers a UI for defining SLAs and alarms whenever these SLA is violated

Micromuse doesn't allow for the definition of SLAs

•VPIS is tightly integrated with NNM and VP Operations *Micromuse doesn't have such a strong integration with market-leading troubleshooting tools*





HP OPENVIEW

How VPIS compares to Agilent Firehunter

- VPIS allows customers to get all support from HP With Firehunter the customers get yet another vendor that they have to establish support agreements with
- VPIS integrates tightly into the suite of OV troubleshooting tools Firehunter is a point product only with less strong of an integration with OV troubleshooting tools
- VPIS support leading edge technologies such as WAP Firehunter doesn't offer a solution for WAP management

