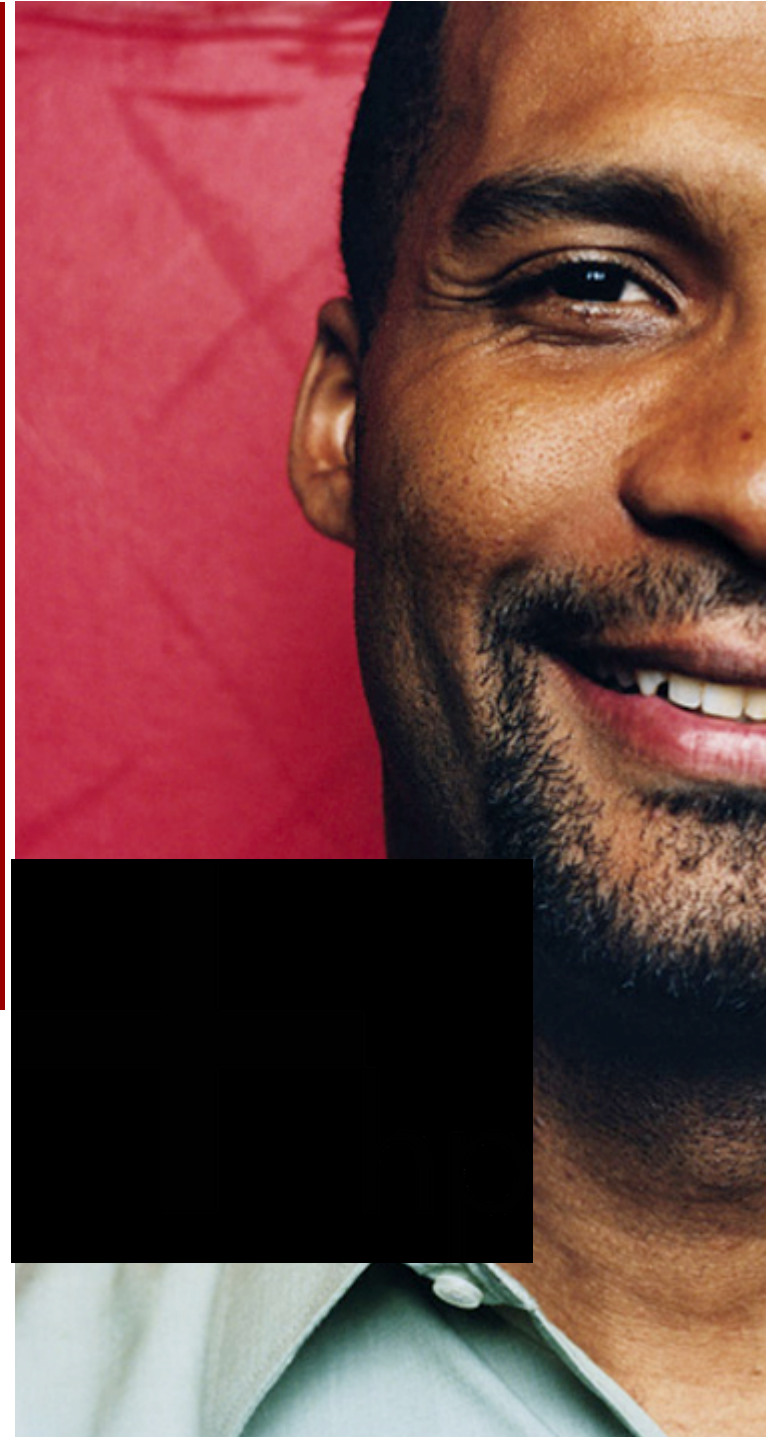




What's New in HP OpenView Operations 8 for UNIX

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HP OpenView Operations for UNIX provides ...



Adaptive management

business aware

service centric


operations centric

- Scale & security - highly scalable, reliable and secure management
- Out-of-the-box infrastructure and application management
- Service-driven management - aligns IT with the business
- Speed - fast problem isolation and automatic correction
- Simplification - takes the complexity out of applications
- Automation – minimal user interaction
- Solution component building block approach
- Tight integration with other HP OpenView or 3rd. party solution components



Cope with current IT challenges through service-driven operations management

- Discover and lay out network, system, application and storage assets
- Integrate diverse and heterogeneous environments
- Use service views to map complex infrastructure relations to application and business services
- Continually monitor availability and performance
- Problem identification, directed alerts and alarms
- Problem resolution advice or automated action and correction

|  Operations centric | |
|--|--|
| Assess Advise Act | |
| Assess | Detect infrastructure assets of all types Model network topology, systems, applications, storage and web services Monitor availability and performance Integrate vendor-specific management |
| Advise | Correlate events from discrete elements to identify root cause Report on potential risks Diagnose problems based on state of the infrastructure |
| Act | Remote stop and restart failing applications – with or without operator intervention |

Back in control of application complexity ...



| | |
|-------------------------|--|
| business application | |
| database | |
| Internet infrastructure | |
| operating system | |
| network devices | |

Recap – new features of OVO/UNIX 8



Unparalleled security

- Secure agent-server communication based on HTTPS (replaces DCE-RPC on core agent platforms)
- OVO Agent running as non-root
- Pluggable Authentication Module (PAM) for user login

Service-driven operations mgmt

- Java UI and Service Navigator enhancements for enriched service management
- Service-centric configuration for Service Navigator views (Service Nav. Value Pack for OVOU 8)

Infrastructure readiness

- NNM 7.x support
- ECS 3.31 runtime and OV Composer integration
- Additional features for new HTTPS Agents:
 - Improved cluster awareness
 - DHCP support
- Veritas Cluster support for HP-UX Management Server
- Deployable OVPA packages
- Enriched Smart Plug-Ins
- SNMP trap interceptor for HTTPS Linux agent

New HTTPS Agent: Secure Communication



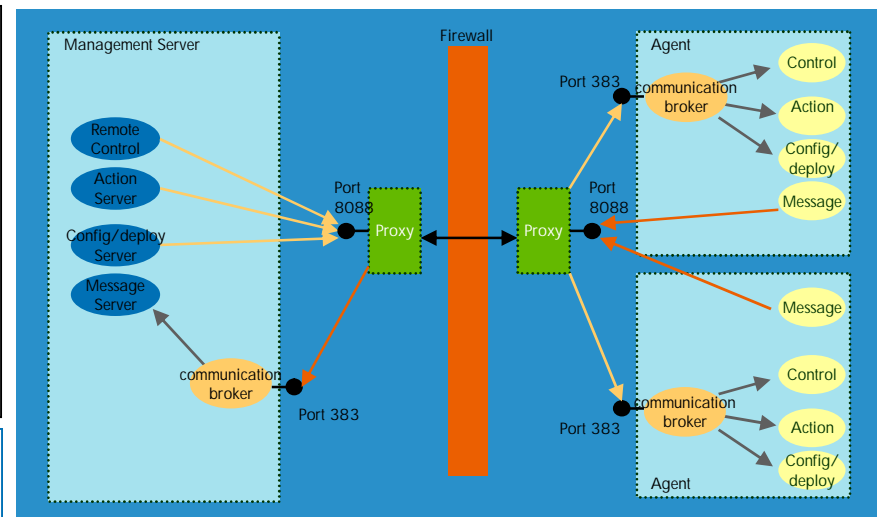
“Secure communication for managing business-critical IT environments is key to the success of an enterprise’s security strategy”

Based on open Internet Standards

- HTTP as transport protocol
- SSL for encryption
- SOAP (XML) replaces DCE-RPCs

Is firewall-friendly

- Restrict outside access to dedicated HTTP proxies
- Reduce port usage via multiplexing over HTTP proxies



Provides out-of-the-box security

- HTTP Authentication
- SSL Encryption with Server and Client Certificates

Increased efficiency for service-driven operations



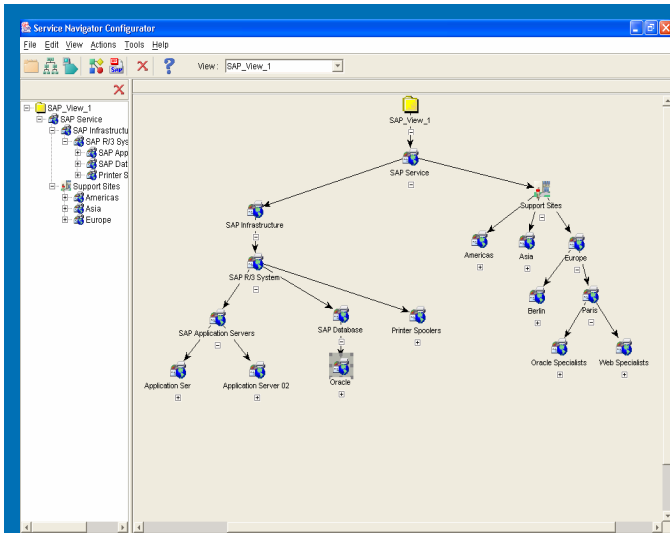
The screenshot displays the HP OpenView Operations for UNIX interface. The main window shows a service graph for an SAP R/3 system, with nodes like SAP R/3, SAP System, SAP Database, and SAP R/3 Tablespace. A message browser at the bottom shows a list of messages with columns for Severity, Dup., SUIAONS, Time Received, Application, Object, Message Text, Support Level, and Department. A navigation panel on the right shows a zoomed-in view of the service graph. The interface includes a menu bar, a toolbar, and a status bar at the bottom.

| Severity | Dup. | SUIAONS | Time Received | Application | Object | Message Text | Support Level | Department |
|----------|------|---------|-------------------|-------------|----------|-------------------------|---------------|------------|
| Minor | | ----- | 14:09:15 10/16/03 | SAP | Security | oracle client core dump | Gold | Marketing |
| Critical | | ----- | 14:09:12 10/16/03 | SAP | Security | Oracle DB problem | Gold | Marketing |
| Minor | | ----- | 14:02:47 10/16/03 | SAP | Security | oracle client core dump | Gold | Marketing |
| Critical | | ----- | 14:02:32 10/16/03 | SAP | Security | Oracle DB problem | Gold | Marketing |
| Minor | | ----- | 13:56:27 10/16/03 | SAP | Security | oracle client core dump | Gold | Marketing |
| Minor | | ----- | 13:54:29 10/16/03 | SAP | Security | oracle client core dump | Gold | Marketing |
| Critical | | ----- | 13:54:26 10/16/03 | SAP | Security | Oracle DB problem | Gold | Marketing |
| Minor | | -X----- | 13:36:32 10/16/03 | SAP | Security | oracle client core dump | Gold | Marketing |
| Major | | -X----- | 13:36:31 10/16/03 | SAP | Security | disk space problem | Gold | Marketing |
| Critical | | -X----- | 13:36:30 10/16/03 | SAP | Security | Oracle DB problem | Gold | Marketing |
| Critical | | -X----- | 13:19:11 10/16/03 | SAP | Security | Login Failed | Gold | Marketing |

- New look-and-feel (optional)
- Customizable toolbar
- Message browser can show images
- Quick service navigation, e.g.
 - Lasso selection
 - Panel
 - Zooming
 - Adjustable font size
 - Go-to-service button
- Dynamic multi-line labels for services views

Service Navigator Value Pack

Extending service management leadership



- Reduced integration & deployment cost
- Increased operations efficiency and productivity
- Higher service quality

Reduce the complexity of service management:

- Simplifies the service definition and maintenance
- Enhances the configuration of status evaluation
- Bases on the consolidated, shared service repository
- Integrates business service management and operations service monitoring

OV Composer - Event correlation made easy



Takes the complexity out of event correlation:

- GUI based configuration of correlation logic
- Out-of-the-box correlators for typical use cases:
 - enhance, multi-source, rate, repeated, suppress, transient
- Simple extension of Composer Templates (user-defined correlators)
- Easy mechanism to bring in external data, decision logic via C or Perl callouts

Available free of charge

The screenshot shows the 'Multi-Source' configuration window for an Oracle alert named 'ora_disk'. The window is divided into several sections:

- Name:** ora_disk
- Description:** ora_wrt
- ora_wrt - Alarm Signature:**

| Field | Operator | Value |
|-------------|----------|--------------|
| APPLICATION | = | "Oracle" |
| MSGTEXT | matches | "^ORA-2820:" |
- ora_wrt - Variables:**

| Name | Type | Value |
|------|----------|----------------------------|
| cb | Constant | "probable cause: " |
| hint | Combine | ora_wrt.cb,fs_full.MSGTEXT |
- ora_wrt - Advanced Filter:**

| Name | Operator | Value |
|------|----------|-------|
|------|----------|-------|
- ora_wrt - Message Key:** ora_wrt.NODENAME
- ora_wrt - Alter Alarm Definition:**

| Field | Mode | Value |
|---------------|---------|---------------------------|
| MSGTEXT | Append | ora_wrt.hint |
| OPACTION_A... | Replace | fs_full.OPACTION_ACK |
| OPACTION_A... | Replace | fs_full.OPACTION_ANNOTATE |
| OPACTION_C... | Replace | fs_full.OPACTION_CALL |
| OPACTION N... | Replace | fs_full.OPACTION NODE |
- Discard on Set Completion
- Parameters:**
 - Window Period:** 0 hh 0 mm 30 ss
 - Set

Buttons: OK, Cancel, Help

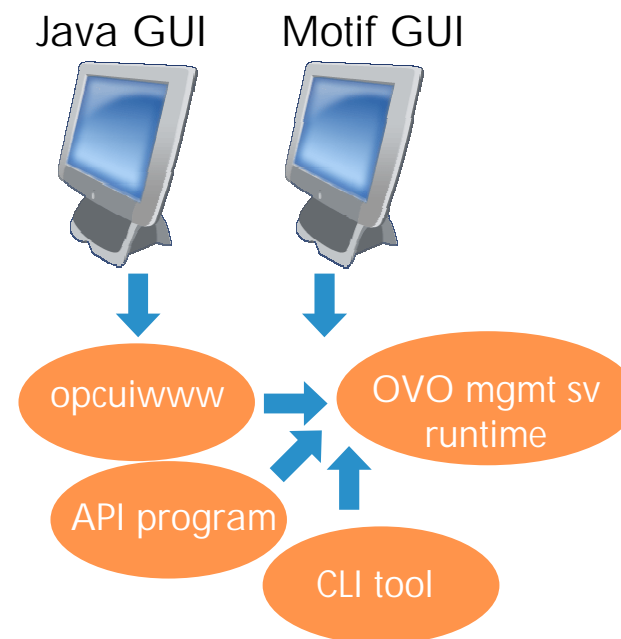
OVO/UNIX 8 – User Logon Authentication via PAM

Pluggable Authentication Module (PAM) support:

OPTIONAL: OVO user no longer validated against password stored in OVO database, but as defined via the PAM config (e.g. LDAP, Kerberos, /etc/passwd)

- Benefits:

- Central user logon administration
- Password aging
- Password length and character validity check



New!

OVO/UNIX 8 –

New product features in summer 2006



Continuous update of OS versions...

- ...supported by HTTPS and/or DCE agents:
 - New HTTPS agents for Solaris / x86
 - New support for RedHat Enterprise Linux 4, SuSE Linux Enterprise Server 9, Suse Linux 10
 - and many more ...

Significantly improved performance

- In many cases, more than 5 times better
- message throughput
 - memory use for Java UI

Support for new...

- ...OS, DB, and cluster SW versions on the OVOU management server:
 - Network Node Manager 7.51
 - Veritas Cluster Server 4.1 / HP-UX
 - Oracle 10gR2, Oracle RAC

More enhancements

- Operator notification for Java UI
- Automatic switch-over for Java UI
- Outbound-only communication
- Additional CLIs and Java wrappers for OVO/UNIX management server configuration APIs

For up-to-date information about supported platforms for HP OpenView Operations for UNIX 8, please regularly check the latest support matrix at:

http://support.openview.hp.com/sc/support_matrices.jsp

(HP Passport Login required)

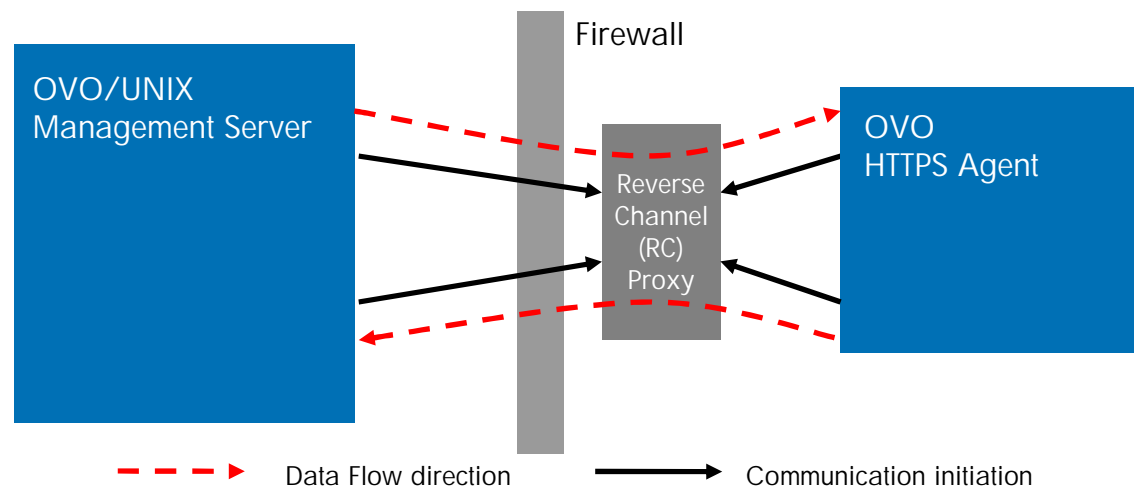
New!

Outbound-only Communication (Phase 1)



- Allows OVO/UNIX management solution to be compliant with company-wide network security policies
 - All communication only to be initiated from trusted zone to untrusted zone
- Lightweight implementation that doesn't require dedicated systems, available on many OS platforms
- RCP proxy only supports "OpenView traffic" – it's not a generic proxy!
- Multiple use cases supported:
 - standard enterprise mgmt scenario
 - Service provider scenario

But more to be delivered with future phases

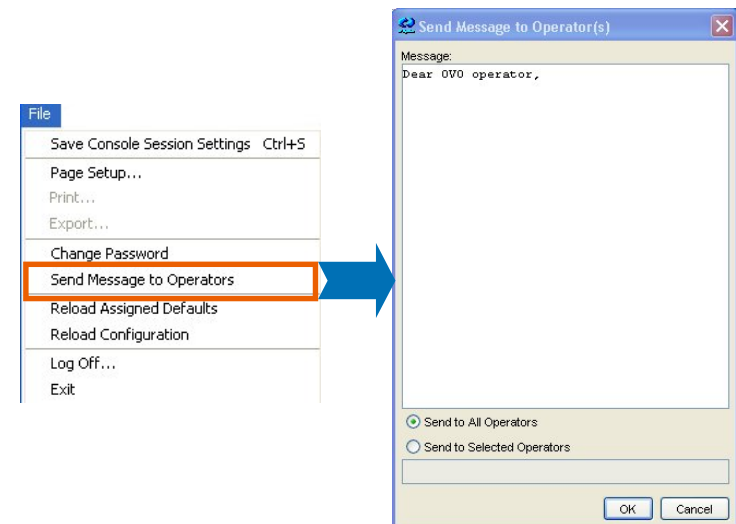
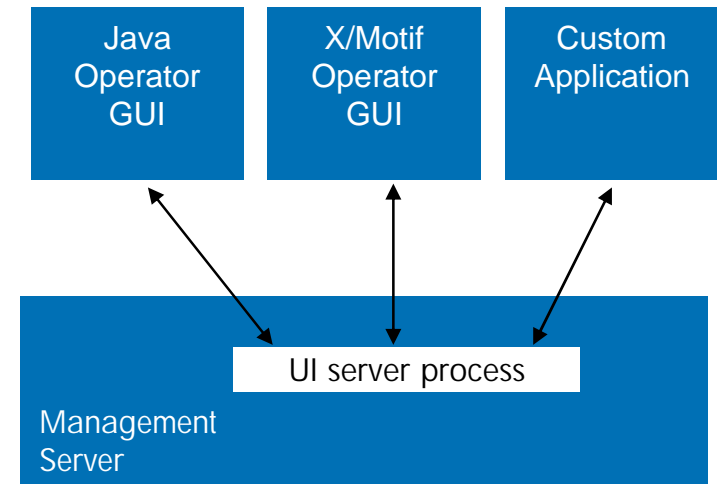


New!

OVO/UNIX Java GUI operator notification



- Notification messages can be sent to operators using Java GUI via:
 - other Java GUIs
 - X/Motif GUIs
 - opcwall command line interface utility
- Notification messages are delivered to Java GUI at refresh intervals
- New operator notification mechanism also provides server side API for receiving operator notification messages in custom applications



New!

OVO/UNIX 8 – Integration news in summer 2006



Service Navigator Value Pack 9

- Support for SD 5 for service integration between OVO/UNIX and SD
- Minor functional enhancements (Web UI, new install, ...)

OVPI report pack for OVO/UNIX

- OVPI-based reporting for OVO/UNIX 7 & 8
- Service status
 - message statistics

New certified 3rd-party integrations

- nLayers InSight
(for application discovery & dependency mapping to be consumed by OVO/UNIX Service Navigator)
- nworks SPI for VMWare
(adds VMware ESX Server Performance, Event, Discovery, and Mapping Capabilities to OVO/UNIX)
- and many more ...

For up-to-date information about integrated 3rd-party solutions, please regularly check the latest partner catalog at: managementsoftware.hp.com/partner/isv/index.jsp

OVO/UNIX 8 - SD 5 Service Model Integration: New SNVP 9 Release



- Supports the new Service Desk 5 release (starting with SD 5.0 SP1)
- Improved OVO/UNIX - SD Integration via SD 5 Web-UI
- Single- step installation, patching independent of SD
- Extended platform support (Oracle 10g, Win2003)
- Several usability enhancements
 - Ability to zoom in the service hierarchy tree
 - Command line tools on the OVO management server
 - simpler copy-and-paste within a hierarchy
 - added URL support for service icons and backgrounds

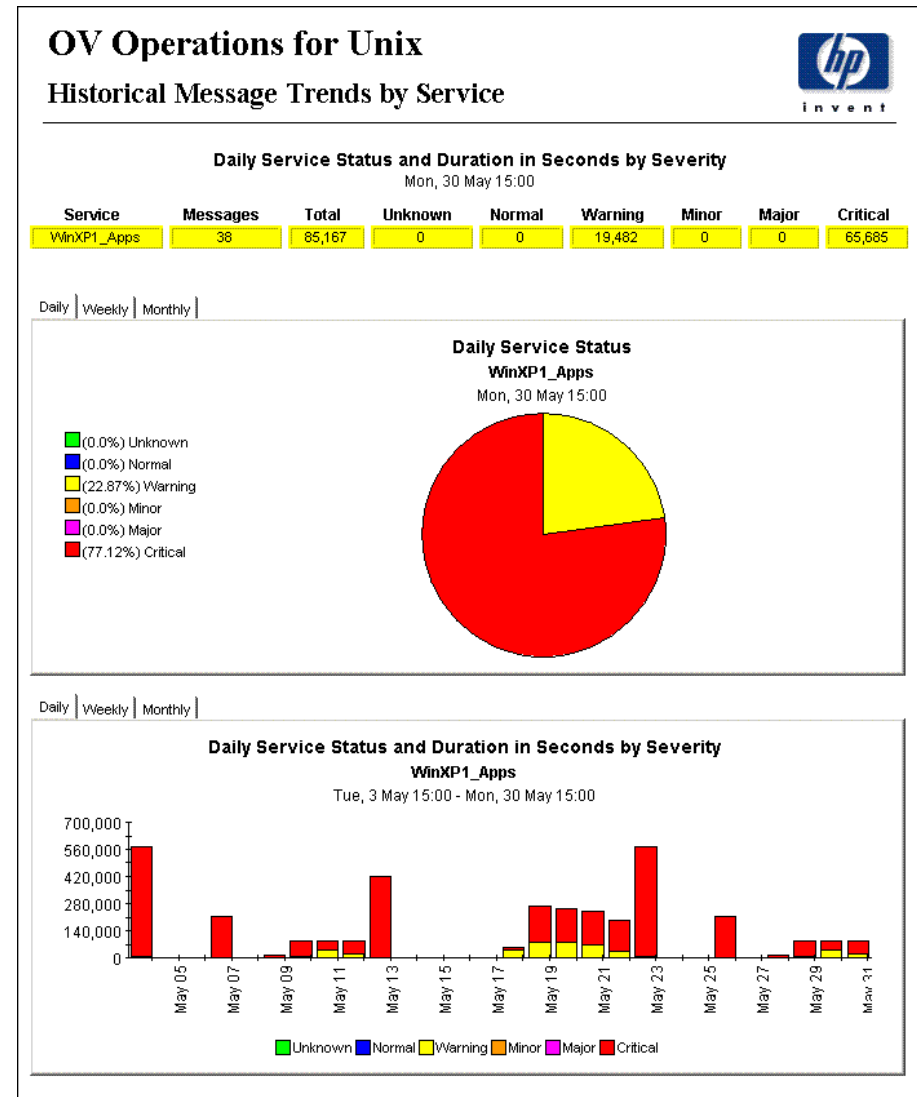
The screenshot displays two overlapping windows. The top window, titled 'Example_SD_Configuration_View - Service Configuration for HP OpenView Service Navigator', shows a hierarchical tree structure. The root node is 'Services', which branches into 'Configuration_View'. 'Configuration_View' further branches into 'E-MAIL' and 'Webhost'. The 'E-MAIL' node has several sub-nodes, including 'E-MAIL' and 'Webhost'. The bottom window, titled 'HP OpenView Web Console - Microsoft Internet Explorer', shows the web interface. The address bar contains 'http://localhost/ovportal/'. The main content area displays a table of Configuration Items (CI) categorized by 'CI Category'. The table has columns for 'Search code', 'Name', 'Located at/Name', 'Category', and 'Unique'. The table lists 7 items, including 'NETSERVERCLX01' and 'NetserverCLX01'. The table is titled '7 Items(s)' and includes a prompt 'Select an item in the table'.

| CI Category | Search code | Name | Located at/Name | Category | Unique |
|----------------|----------------|----------------|-----------------|----------|--------|
| Documentation | CI1 | CI1 | | | No |
| Hardware | CI2 | CI2 | | | No |
| Logical Entity | CI3 | CI3 | | | No |
| Network | CI4 | CI4 | | | No |
| Software | CI5 | CI5 | | | No |
| | CI6 | CI6 | | | No |
| | NETSERVERCLX01 | NetserverCLX01 | | | No |

OVPI-based reporting for OVO/UNIX 7 and 8



- New OVPI Report Pack for OVO/UNIX
 - more choice for reporting on OVO/UNIX and SPIs
- supports OVO/UNIX 7 and OVO/UNIX 8, up to latest versions
- extends scope of OV Reporter reports for OVO/UNIX
 - Example: consolidated reports for multiple OVO/UNIX management servers





Last but not least ...

New documentation

New whitepaper on how to create an agent & policy clone image for distribution outside OVO/UNIX, e.g. using OV Radia products

Updated OVO/UNIX product manuals (release notes, install guides, ...)

Valuable Resources

Making use of valuable resources like

- Technical Whitepapers
- User & Installation Guides
- And many more. visit:

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

Continued market leadership

HP OpenView continues to lead the distributed system management market:

See

http://managementsoftware.hp.com/news/press/pr/2005/pr_0087.html

Evaluate Operations 8 for UNIX

Give it a try!

Visit us at

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

for a free evaluation of HP OpenView Operations for UNIX 8!