
HP OpenView SOA Manager

for the Windows, HP-UX, and Linux operating system

Release Notes

Software version: 2.11 / August 2006

This document provides an overview of the changes made to the HP OpenView Service Oriented Architecture Manager (SOA Manager). It contains important information not included in the manuals or in the online help.

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Announcements

The SOA Manager 2.11 software is generally available and represents the next incremental release since version 2.0. The software is targeted at customers that are interested in ensuring that their SOA-based environments are reliable and secure.

This release provides many Web Services Management (WSM) enhancements as well as new features for managing additional resources that are typical in an SOA environment. Lastly, the software provides a new approach to management by utilizing model-based automation, virtualization, and a distinct management channel that embraces standard WS-based management protocols.

New Features

- The Network Services server and WSM Broker are supported on HP-UX Itanium 11.23.
- The Business Service Explorer (BSE) contains a new Model section that allows you to easily define and browse a service model.
- The service model allows a business service to contain multiple Web services.
- The service model allows the management of Web services at the operation level. The BSE includes an Operation View screen that shows the performance for each operation.
- Web services can be added to the service model by importing a WSDL. All operations are automatically discovered and added to the model.
- The BSE contains a new Performance section that includes new metric fields as well as a performance graph view of the metrics.
- The BSE provides a new feature that allows one business service component to be designated as an endpoint. When a business manager sets overall SLOs on the business service, the SLOs are used to set desired operating limits for the component designated as the endpoint for the business service.
- The BSE now allows linking to IT services as an alternative to creating IT service configurations and resource configurations. By selecting any subset of the existing IT services, the corresponding IT service configurations and the resource configurations can be automatically created in the service model.
- The BSE utilizes new event propagation rules and provides an alert column to summarize alert severities. When drilling down through the service model, the alert column shows the root cause of a problem.
- The BSE provides the ability to view acknowledged alerts.
- The SOA Manager provides a new management agent for Message Oriented Middleware (MOM). The MOM Agent provides the pending message count for JMS topics and queues. This is the ability to detect when messages get stuck in the messaging infrastructure. This feature is available for the BEA WebLogic Server.
- The source code for the MOM Agent is on the CD in the /MOM_Agents/Java/Weblogic directory.
- The Network Service server supports a new IT service and configuration type for MOM resources. The IT service is used to register JMS servers (including discovered queues and topics), which can then be added to a service model. MOM IT services can also be published to UDDI.
- The Network Service server supports a new IT service type for grid hosts. This type of IT service is used to capture the management of hosts that are part of a grid that is built using the Globus Toolkit (a de-facto industry standard). The manageability characteristics of grid hosts are accessed using Globus's

Monitoring and Discovery Service (MDS) component. Moreover, the MDS component utilizes the Ganglia monitoring system as an information provider to capture low-level attributes of resources such as CPU load or number of processes. The Network Services server can connect directly to Ganglia or the MDS component. Host IT services can also be published to UDDI.

NOTE: Neither Globus nor Ganglia are packaged or supported with the SOA Manager product. Information on HP's grid-related offerings can be found at <http://www.hp.com/go/grid>. It is also strongly recommended that grid implementations (and the management of grids using the SOA Manager) be completed through a partner engagement with HP Consulting and Integration.

- The Network Services server supports a new RDF-based integration between OpenView Operations (OVO) for UNIX and the SOA Manager. The integration replaces the former SOA Manager SPI. The integration gives OVO users the ability to view a service map of the SOA Manager's service model and also lists alert messages. Alert messages are synchronized between both products and can be acknowledged in either product.
- The WSM Broker's management channel can use a different server port than the WSM Broker's application channel. This allows management traffic to run on a separate port from the Broker's application traffic.
- The WSM Broker's management channel can use HTTP, HTTPS or HTTP/HTTPS with basic authorization.
- WSMF Broker allows operation level access control for brokered web services secured by SelectAccess.
- The SOA Manager 2.1 can be installed on the same computer as version 2.0.
- The SOA Manager provides an upgrade path from version 2.0 to 2.1. You can export the business model from 2.0 and then import it into 2.1, including business services and contained intermediary configuration, container configuration, database service configuration, and any "Uses" relationships to other Business Services. Any SLOs defined for the Intermediary Configuration and/or Container Configuration of a business service will be imported into SOAM 2.1. Refer to the *Installation Guide* for complete instructions on upgrading from 2.0.
- The SOA Manager documentation includes a *Concepts Guide* that explains many of the fundamental concepts that are required to understand the SOA Manager software and how it is typically used in an enterprise environment.
- The SOA Manager documentation includes a new MOM-based tutorial that demonstrates some of the capabilities of the new MOM functionality.

Enhanced Features

- The Network Services server can support and model up to 50 business services with performance monitoring.
- The BSE Business Service List screen is organized by business service and configuration type. The list can also be filtered to show only business services and configurations that contain errors.
- The BSE provides a new process for defining business service relationships.
- The BSE provides a new process for configuring endpoint update policies. In addition, the BSE includes a new Routing Table section that lists all available endpoints for a brokered service.
- The BSE allows alert categories to be assigned for each service model component.
- The BSE displays business content alerts on the Business Services View screen and the Web Services View screen.
- The BSE contains a new alert category called `Default`.
- The WSM Broker supports WSDL files that contain both a header and body.

- The SOA Manager supports the `profiletrace` length up to 255 characters.
- The audit feature captures a Service ID as part of security auditing messages.
- `SelectAccess` requests are batched and therefore improve the performance of Digital Signature validation.
- The SLOs for a business service can be viewed or modified using the Policy link on the Business Service View page.
- The `ServicePerformanceSnapshotPT` Web service interface allows you to query business service performance metrics. If the business service has a designated endpoint which is a web service or web service operation configuration, the performance metrics for this web service or web service operation are reported. Otherwise, an algorithm is followed for identifying a web service configuration for which metrics can be reported. The details are available in the *Integrator Guide*.
- Alerts can be sent to email recipients that are not part of an alert target.

Obsolete Features

- The BSE no longer requires a distinguished named when adding new entries under the People tab.
- The Network Services server no longer supports manually creating or deploying business services. These tasks must be completed from within the BSE.
- The following Web service interfaces are no longer available for integration:
 - `ITServiceDeployPT` : previously used to get and set deployment policies for an IT Service
 - `BusinessServiceUddiDiscoveryPT`: previously used to publish business services to a UDDI registry
 - `WseeItServiceUddiDiscoveryPT`: previously used to publish WS container and WS intermediary management Web services to a UDDI registry
 - `DbItServiceUddiDiscoveryPT`: previously used to publish business services to a UDDI registry
 - `BSPortType`: (WSRF interface) previously used to get, set, and query resource properties for a business service.
 - `WseeItServicePortType`: (WSRF interface) previously used to get, set, and query resource properties for WS Container or WS Intermediary IT services.

Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

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

- 1 In the Product list, click the product name.
- 2 In the Version list, click the version number.
- 3 In the OS list, click the OS type.
- 4 In the document list, click the document title.

5 To retrieve the document, click **Open** or **Download**.

NOTE: To view files in PDF format (*.pdf), Adobe Acrobat Reader must be installed on your system. To download Adobe Acrobat Reader, go to the following URL:

<http://www.adobe.com>

Installation Notes

Installation requirements, as well as instructions for installing the SOA Manager software, are documented in the *SOA Manager Installation Guide*. Installation requirements and instructions for installing the WSM J2EE Agent for WLS and the WSM .NET Agent are documented in their respective administrator guides. All guides are provided in Adobe Acrobat (.pdf) format. The document file is included on the product's CD media as:

/Documentation

Fixes

The following items identified in previous releases are fixed in the current software release.

- You will no longer receive a `maximum open cursors exceeded` message when using the Oracle database to store Network Service data.
- Messages sent to OpenView Operations for UNIX are prefaced by:
`SoamAlertId: <soam alert id>`
- An IT resource status flag did not change from `Major` to `Normal` when the IT resource is recovered from unreachable to reachable. It occurs when the length of the resource alert sequence id is longer than 128 characters. This restriction has been fixed with a shorter alert sequence id format.
- The `SSLMutalHandshake` bug has been fixed.
- Deleting a business service doesn't clean up all business service alerts.
- Some business service to business service dependencies are not reflected in WSMF relationships.
- When adding a contained resource to a MOM IT service, the URL can include `WSDL` in either uppercase or lower case (i.e., `JMSMgmtMO?wsdl`).
- Authentication cannot be bypassed when accessing the broker's console by editing the URL.
- Functional business services already advertised in UDDI will be checked for when a business service is published to UDDI. Duplicates will not be created.

Known Problems, Limitations, and Workarounds

Network Services Server

- The Network Services server does not integrate with the Broker if the Broker is configured to use a secure management channel.
- SOAM 2.1 does not support non-ASCII user name and password for the SOA Manager login.
- Instructions for integrating with the SOA Manager's southbound interfaces are not included in the *Integrator Guide*. Contact the developer alliance team to get documentation about the Southbound APIs.
- A Business Service exported from SOAM 2.0 does not include contacts and deployment units. Therefore, contacts and deployment units are not imported into SOAM 2.1.
- When SLO thresholds are changed in the BSE, alerts concerning the previous SLO settings are not automatically acknowledged.
- The BSE one day performance summary includes a one hour details chart that is only accurate within plus or minus five minutes.

WSM Broker

- When using custom SOAP services, there may be some fields in the Broker Configurator where the text is inaccurate or malformed.
- Extra white spaces are contained in the XML DOM serialization output stream when SOAP XML requests are signed with an XML signature. The extra white spaces corrupt the signed XML content.
- If the Broker's management channel uses HTTP/HTTPS with basic authorization, then the Network Services server can't connect with the Broker.
- The Broker cannot support a secure and non-secure management channel at the same time. It can either use HTTP, HTTPS, or HTTP/HTTPS with basic authorization.

WSM J2EE Agent

- The number of security violations reported for a J2EE cluster service is sometimes wrong.
- The J2EE agent does not provide metrics for operations to the Network Services server.
- When using WebLogic 8.1 on Linux, sockets for HTTP clients are marked as closed internally. To work around this problem, use a different Operating System until WebLogic Server resolves this issue.

WSM .NET Agent

- The .NET Agent doesn't allow .NET Agent container log files to be viewed in the BSE.
- The .NET Agent cannot be installed on an IIS port other than 80.
- A .NET WS container cannot be registered using an IP address.
- The .NET Agent does not always determine the correct operation WSDL URL.

OVO for Unix Plug-in

- The OVO for Unix Plug-in for HP-UX Itanium can be installed on an HP-UX PA-RISC system. This will cause problems at runtime. For HP-UX PA-RISC, make sure to use /Addons/ovo/soam-ovou-hpux.depot.

Upgrading

- 2.0 Broker does not work with 2.1 Network Services server.
- 2.0 custom broker handlers do not work with 2.1 Broker.
- 2.0 agents do not work with 2.1 Network Services server.

I18N Support

SOA Manager 2.1 should function correctly on a non-English system because it is Internationalization-compliant. SOA Manager has been developed to be localizable, but no specific localization has been done for this release. SOA Manager 2.1 does have the following Internationalization-related restrictions:

- SOA Manager 2.1 cannot be installed in a directory that contains non-ASCII characters.
- Brokered Service Names must be ASCII-only.
- User names and passwords must be ASCII-only.

Integration with Other HP OpenView Solutions

The SOA Manager software includes integrations with the following OpenView products:

- HP OpenView Select Access
- HP OpenView Internet Services
- HP OpenView Operations for UNIX

Documentation for enabling and using these integrations are located on the product's CD media as:

/Documentation

Support

Visit the HP OpenView support web site at:

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

This web site provides contact information and details about the products, services, and support that HP OpenView offers.

HP OpenView online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by being able to:

- Search for knowledge documents of interest

- Submit and track progress on support cases
- Submit enhancement requests online
- Download software patches
- Manage a support contract
- Look up HP support contacts
- Review information about available services
- Enter discussions with other software customers
- Research and register for software training

NOTE: Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract.

To find more information about support access levels, go to the following URL:

http://www.hp.com/managementsoftware/access_level

To register for an HP Passport ID, go to the following URL:

<http://www.managementsoftware.hp.com/passport-registration.html>

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