HP SOA Systinet

Software Version: 4.10

Release Notes

Document Release Date: April 2013 (Edition 2, August 2013)
Software Release Date: April 2013

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Release Summary

HP SOA Systinet 4.10 release is a replacement release of 4.00. The 4.10 version improves stability and performance of its predecessor, upgrades supported platforms and brings better user experience for web users. HP strongly recommends that all HP SOA Systinet 4.0x users install HP SOA Systinet 4.10 and migrate data to the new version.

New Features

HP Systinet 4.10 provides both functional features as well as system improvements.

Key functional features for common users include:

- Microsoft Office 2010 Compliant Web DAV interface in multi browsers
  From any browser that has the MS Office 2010 plugin, MS Office 2010 documents can be opened, modified and saved back to the HP Systinet repository without any need to keep a local copy of the document.

- New documentation sorting in the Service's documentation tab
  The Service's documentation tab now displays the documents sorted by version. This helps users to focus on their working documents by displaying the most recent version of each document type.

- Documentation links are improved to open the same way.

- Expandable title of artifact in Navigator.

- A long title can be viewed in full mode.

- Improvement in the Specification tab.

- There is more support for Rich text document in the Specification tab.

- Support to search by UUID.

- Users can find artifacts based on their UUIDs.

- Saved search feed in Outlook.

- Support to save search results to Outlook's feed.

Key functional features for HP Systinet Administrator users include:

- Improved Export Tool Options
  In order to save time in the initial phases of preparing pre-production environments, an export tool was implemented with two command-line options that can be useful:

  - Generated data will be ignored by default, and export just valuable artifacts (= no reports, event, validation results, and so on).
  - The user can export all data by declaring the following parameter : --include-generated-data

- Support Layer 7 version 7.0
  HP SOA Systinet upgrades the integration with the newer Layer 7 version 7.0.

- Support only for the DataPower new version 5.0.0.5
  HP SOA Systinet upgrades the integration with the newer DataPower version 5.0.0.5.

- Support only for the HP ALM new version 11.5
  HP SOA Systinet upgrades the integration with the HP ALM version 11.5.

- Support for BSM 9.13, 9.20, 9.21
  HP SOA Systinet upgrades the integration with the BSM versions 9.13, 9.20, and 9.21

Key system features include:

- Oracle 11gR2 Support

- Performance Improvements

- Optimizing SQL queries at the Home page have improved the login page loading time to 40%.

- Report Cleanup Task has a better design and schedule to run properly when there are many reports.

- Security Improvements

- Current rich web interface is more resistant to cross-site scripting attacks.

- Improved Cross-Browser Compatibility

- Support multi-browsers with the latest versions of Firefox 19, and Internet Explorer 8, 9 and 10.

Discontinued Support Features

HP SOA Policy Enforcer is no longer an active product (EOL October 2012) and is not supported in HP SOA Systinet 4.10 and later.

The next major release of HP Systinet after 4.10 will discontinue support of the IBM DB2 database, IBM WebSphere and Oracle WebLogic application servers. HP is planning to distribute the next major HP Systinet release with the embedded JBoss application server; no external application servers will be supported.

Support

You can visit the HP Software Support Web site at: **http://www.hp.com/go/hpsoftwaresupport**

HP Software Support Online 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 using the HP Software Support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

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

To find more information about access levels, go to: **http://support.openview.hp.com/access_level.jsp**

To register for an HP Passport ID, go to: **http://h20229.www2.hp.com/passport-registration.html**

Installation Notes

The distribution is a full installer and the file is called `hp-systinet-4.10.jar`. For installation instructions, refer to the Installation Guide.

Please review all instructions and the Hewlett-Packard Support Line User Guide or your Hewlett-Packard support terms and conditions for precautions, scope of license, restrictions, and, limitation of liability and warranties, before installing.

JBoss Capacity Planning Notes

Consider the following additions when sizing your JBoss deployments of HP SOA Systinet:
1. SOA Registry Foundation and JBoss. SOA Registry Foundation supports JBoss5 only, not 4.x. SOA Registry Foundation must always be running in JBoss5.
2. HP SOA Systinet deployed to JBoss5.x performs best with at least 2 GB of memory and on a 64-bit OS. HP does not recommend 32-bit OS architectures for HP SOA Systinet production environments.
3. Oracle JDK6 release packages with minor version 18 and higher unexpectedly change the XXNewRatio value from 8 to 3. As a result JVM allocates more memory and degrades the performance of servers. If you must use a version higher than 1.6_0.17 add the original value -XXNewRatio=8 in JBossrun command-line java options to regain more memory for the server.
4. Ask your PS technical consultant for capacity planning documents for more details.

Known Issues

Systinet Known Issues

QCCR1J33479 The distribution does not remove existing rating and discussion data for Org Unit artifacts

Observation: In 4.02: the rating/discussion feature has been removed from Organizational Unit artifact but data created in HP SOA Systinet 4.00 or 4.01 deployments and migrated to HP SOA Systinet 4.10 can still be seen in the result table when the user lists OU artifacts.

Resolution: If the issue applies to your HP SOA Systinet database, follow these steps. Run the following SQL script to remove: all rating votes and rating counts, all discussion threads and messages, and all customization settings of Organization Units present in your HP SOA Systinet database.

```
--remove rating data of all Organizational Units
DELETE FROM ry_ratingvotes
WHERE ry_ratingvotes.artifactuuid IN (SELECT uuid FROM ry_resource WHERE
fk_artifacttype='organizationUnitArtifact');

DELETE FROM ry_ratingtotals
WHERE ry_ratingtotals.artifactuuid IN (SELECT uuid FROM ry_resource WHERE
fk_artifacttype='organizationUnitArtifact');
```

```
--delete existing configuration of Organizational Units in DB
DELETE FROM systemConfiguration WHERE name
='platform.ui.customization.data.provider.viewArtifact.organizationUnitArtifact';
DELETE FROM systemConfiguration WHERE name
='platform.ui.customization.data.partner.viewArtifact.organizationUnitArtifact';
DELETE FROM systemConfiguration WHERE name
='platform.ui.customization.data.analyst.viewArtifact.organizationUnitArtifact';

--remove discussion data of Organizational Units
DELETE FROM ry_commentmessages
WHERE ry_commentmessages.threadid in (SELECT ry_commentthreads.id FROM ry_commentthreads
JOIN ry_resource ON ry_resource.UUID = ry_commentthreads.artifactuuid
                  WHERE ry_resource.fk_artifacttype ='organizationUnitArtifact');

DELETE FROM ry_commentthreads WHERE artifactuuid IN (SELECT uuid FROM ry_resource WHERE
fk_artifacttype='organizationUnitArtifact' );

commit;
```

QCCR1J57081 Application server change from JBoss to WL does not modify the strategicContext-server.xml

QCCR1J54635 Lifecycle notifications in 4.00 not customizable and configured to send more emails than expected

Observation: In the product, the default lifecycle notification configuration is hard-coded and not easily customizable. The list of recipients is not hard-coded in the spring configuration file called lifecyclePushNotificationContext.xml. By default, emails are sent not only to artifact owners, but also to Providers. In some cases this configuration may not be acceptable.

Workaround: You can change the settings in the lifecyclePushNotificationContext.xml file. It works although it can be rewritten by upcoming updates. Another workaround is to modify LDAP integration configuration to disable fetching the email of user. User can change the e-mail address and full name within Systinet UI. New users will be warned to setup an e-mail address or full name with the first login to Systinet.

QCCR1J54589 Lifecycle processes defining manual tasks can compromise performance of some parts of GUI.

Observation: Governance processes having manual tasks may degrade performance of the homepage as well as newly created artifacts governed by that process. Only the customers that use lifecycle processes with manual tasks will have difficulties from this bug.

Workaround: You can partially reduce the impact if you temporarily disable the pending tasks box in Customization on the welcome page.

QCCR1J51772 Hibernate may degrade a performance of HP SOA Systinet

Observation: During 4.01 load tests, approximately 10-15 minute periods of intensive full GC activity in JVM caused the application server to stop responding. as the root cause was a memory leakage in hibernation. This bug is reported in

http://opensource.atlassian.com/projects/hibernate/browse/HHH-5300

Recommendation: Consider adding the JVM option -XX:SoftRefLRUPolicyMSPerMB=0

QCCR1J51105 Unable to generate policy report because of PM constraint violation

Observation: Policy report fails to start and the log shows a high number of "constraint violation" errors.

Resolution: This is an expected behavior. This behavior has no impact on the functionality of the policy manager. The error disappears and cannot be observed a few hours later when the user applies the same procedure.

QCCR1J46901 Deadlocks can be observed in automatic task in WebLogic MSSQL based deployments

Observation: Admins of Weblogic + MSSQL may find the following error in the app server log:

```
INFO: artifact.UPDATE - platform.repository.legacy.artifact.UPDATE:12201,INFO,[ACTIVE]
ExecuteThread: '0' for queue: 'we
blogic.kernel.Default (self-
tuning)'(14),"","/taskArtifacts/updateUsageStatsHourly",updating artifact
/taskArtifacts/upd
ateUsageStatsHourly in revision=1
ERROR: tool.ToolManager - {http://systinet.com/2005/05/repository}tool-error:
Error when executeQueryStatic tool: {http://systinet.com/2005/05/repository}internal-
server-error:
org.springframework.dao.DeadlockLoserDataAccessException: PreparedStatementCallback; SQL
[UPDATE ry_resourceETag SET eTa
g = ? WHERE uuid IN (?)]; Transaction (Process ID 60) was deadlocked on lock resources
with another process and has been
 chosen as the deadlock victim. Rerun the transaction.; nested exception is
com.microsoft.sqlserver.jdbc.SQLServerExcept
ion: Transaction (Process ID 60) was deadlocked on lock resources with another process
and has been chosen as the deadlo
ck victim. Rerun the transaction.
```

Resolution: The Installation guide requires setting the MS SQL 2008 isolation level to READ_COMMITED_SNAPSHOT_ON.. Make sure that the database has a specific level of transaction   isolation to avoid deadlocks or modify it by the command `ALTER DATABASE [database_name] SET READ_COMMITTED_SNAPSHOT ON;`

QCCR1J32151 WSDL/Schema browser – larger XSD schemas may cause browser instabilities, or degraded performance of HTTP browser. WSDL 2.0 is not viewable.

QCCR1J60310 Loading Categories takes a while on MS SQL

Observation: When using HP Systinet, page loading may take a long time. The main reason could come from the MS SQL database. This issue does not happen on Oracle 11gR1.

Resolution: You can use tools provided by the MS SQL Server to detect the query and setup of the MS SQL Server to increase the progress time of this query and solve this problem.
- Use SQL Server Profiler to capture time-consuming queries.
- Use Database Engine Tuning Advisor to fine-tune the database.

QCCR1J59708 – SOA Systinet install on WebLogic cannot be accessed by https using IE 9 and IE 10

Observation: It is a bug of IE 9.0.12 and newer on WebLogic. You can use an older version to access Weblogic.

Resolution: IE 9.0.12 works if using a key length of 1024 bits or larger, otherwise there may be problems because of the newest updates of Microsoft Windows (as described in http://support.microsoft.com/kb/2661254). Use keytool as follow to generate a key with length 1024 bits:

```
keytool -genkey -keystore keystore.jks -alias someAlias -keyalg RSA -keysize 1024
```

QCCR1J60495 - JBoss Cluster: Scheduled Tasks keep throwing errors in the log which overwhelms the machine HDD

Observation: The issue with overwhelmed HDD could be caused by this defect in JBoss:
https://community.jboss.org/thread/2451
Resolution: Add the tags in red text to JBOSS_HOME/server/<node_name>/conf/bootstrap/vfs.xml

```
<property name="permanentRoots">
 <map keyClass="java.net.URL" valueClass="org.jboss.virtual.spi.ExceptionHandler">
 <entry>
 <key>${jboss.lib.url}</key>
 <value><null/></value>
 </entry>
 <entry>
 <key>${jboss.common.lib.url}</key>
 <value><inject bean="VfsNamesExceptionHandler"/></value>
 </entry>
 <entry>
 <key>${jboss.server.lib.url}</key>
 <value><inject bean="VfsNamesExceptionHandler"/></value>
 </entry>
 <entry>
 <key>${jboss.server.home.url}deploy</key>
 <value><inject bean="VfsNamesExceptionHandler"/></value>
 </entry>
 </map>
 </property>
```

Workbench Known Issues

QCCR1J44130 It is not recommended to work with more than three extension projects at the same time as this consumes a lot of system resources and the slows down the application.

QCCR1J57802 User cannot see taxonomy items under a taxonomy project after installing Oxygen 10

Workaround: Open the plugin.xml file in the Oxygen plugin and search for a "org.eclipse.core.runtime.contentTypes" extension with "file-extensions=xml". Change the "priority" setting from "high" to "normal" or "low". Restart Systinet Workbench with the new configuration.

QCCR1J61061 If you connect to HP SOA Systinet through an Apache server using mod_security, you may get an error message "Bad Request", when publishing a taxonomy/assertion.

Workaround: Edit WB_HOME/start.ini and insert the Java system environment property, -Dsystinet.rest.client.default.send.content.length=true, at the end of the file. Restart workbench.

QCCR1J51945 If you use Eclipse 3.4.x, and select to install the Report Editor component from hp--systinet-workbench-4.10-plugin.zip. You cannot use the Preview tab in the Report Design Editor.

Workaround: Download the Eclipse Platform 3.3, extract the distribution file, and copy the folder `ECLIPSE_3.3_HOME/plugins/org.eclipse.tomcat_4.1.230.v20070531` to `ECLIPSE_3.4_HOME/plugins` and restart Eclipse 3.4.x.

QCCR1J45471 `r_jndiParameter` based on property type `nameValuePair` is not supported when adding a property to the SOA Endpoint artifact

Workaround: Manually modify the Endpoint artifact to accept the value.
- Customer build extension
- Modify `sdmConfig.xml` file which is at "`EXTENSION_JAR_FILE\EXTENSION-INF\sdm\`"

```
<artifactDescriptor
uri="urn:com:systinet:soa:model:artifacts:soa:endpoint">
<properties>
<!--add properties to Endpoint artifact-->
<property>
<uri>property uri</uri>
<cardinality>[optional] or [Required] or [Multiple]</cardinality>
</property>
</properties>
</artifactDescriptor>
```

SOA Systinet Eclipse Plug-in Known Issues

QCCR1J54436 You cannot validate very large artifacts (about 80 MB). Eclipse runs out of memory.

QCCR1J40101 User cannot view validation errors in editors provided by other Eclipse plugins, for example Oxygen and XMLSpy.

QCCR1J58868 User cannot generate service skeletons or service clients directly from the Repository Search Result view if you connect to HP SOA Systinet through Siteminder.

Workaround: You must download the artifact from the Server and choose **Web Services** > **Generate Java bean skeleton** or **Web Services** > **Generate Client**.

QCCR1J50103 Install new software wizard does not enable the Finish button on Eclipse 3.5 (https://bugs.eclipse.org/bugs/show_bug.cgi?id=277265)

Workaround: Click **Back** to return to the first page of **Install New Software**. In the **Work with** drop-down box, select `hp-systinet-eclipse-plugin-4.10.zip` to re-install it.

SOA Systinet Visual Studio Plug-in Known Issues

QCCR1J60249 User needs to uninstall the existing HP SOA Systinet Visual Studio plug-in before re-installing the new distribution.

QCCR1J42112The HP SOA Systinet Visual Studio plug-in does not support Add Web Reference in Visual C++ projects in Visual Studio 2008 Professional.

Systinet Aris Integration Known Issues

QCCR1J36571 Property in search dialog is not displayed for some artifacts

Observation: Property in search dialog is not displayed for some artifacts if there is a change in the SDM Model in HP Systinet.

Workaround: If there is a change in the SDM Model of an HP SOA Systinet Server, you must do the following to be able to search for artifacts correctly:
 1. Shut down ARIS
 2. Delete folder `C:\Documents and Settings\<user-account>\Local Settings\Temp\connector_aris.<host>.<port>`
 3. Start ARIS.

QCCR1J37385 Document duplication of models on import to ARIS

Observation: If you re-import a service definition, any existing models in ARIS are not reused. Instead, ARIS Integration creates new models.

QCCR1J37704 Import may freeze ARIS platform if there are insufficient resources (especially when a virtual machine is used).

Workaround: If an import freezes for several minutes, then close ARIS, free some disk space and memory, and restart ARIS.