Sun GlassFish Web Space Server 10.0 Release Notes

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◆ ◆ ◆ CHAPTER 1

Sun GlassFish Web Space Server 10.0 Release Notes Overview

Sun GlassFish Web Space Server is the next-generation web aggregation and presentation platform created for an enterprise. This platform provides a virtual space where you can centralize, share, and collaborate. Moreover, the Sun GlassFish Web Space Server includes developer tools and an enterprise-grade presentation runtime based on Liferay Portal Server, GlassFish™ version 2 or version 3 software, and MySQL™ software.

About These Notes

The *Sun GlassFish Web Space Server 10.0 Release Notes* contains the most current information about new features available in this release and known issues and limitations. Read this document before using Sun GlassFish Web Space Server 10.0 or reporting any bugs.

Release Notes Revision History

This section lists the changes that have been made in these release notes since the Sun GlassFish Web Space Server 10.0 release.

Revision Date	Description
August 2008	Release of Sun GlassFish Web Space Server Milestone 2
October 2008	Release of Sun GlassFish Web Space Server Milestone 3
December 2008	Release of Sun GlassFish Web Space Server Milestone 4
February 2009	Release of Sun GlassFish Web Space Server 10.0

Getting and Installing Sun GlassFish Web Space Server

The *Sun GlassFish Web Space Server 10.0 Getting Started Guide* provides information on the download location, platform requirements, installation instructions, and how to use Sun GlassFish Web Space Server.

Related Documentation About Sun GlassFish Web Space Server

The Sun GlassFish Web Space Server documentation set is available on the Sun GlassFish Web Space Server Document Collection page.

You can also refer the documentation available on the Liferay wiki and OpenPortal documentation web sites.

◆ ◆ ◆ CHAPTER 2

What's New in the Sun GlassFish Web Space Server 10.0 Release

This chapter provides a brief overview of the new features that are bundled with Sun GlassFish Web Space Server 10.0 release.

Note – Future commercial releases of Sun GlassFish Web Space Server will offer customized support plans, and additional enterprise integrations (for example, OpenSSO Enterprise, OpenOffice plugin, SharePoint, and enhanced security features). For more information, please contact us.

- "Web Services for Remote Portlets 2.0 Features" on page 7
- "Simple API for Workflow Features" on page 8
- "Presence Feature" on page 8
- "Content Management System Features" on page 9
- "Control Panel for Sun GlassFish Web Space Server Administration" on page 9
- "Sun GlassFish Web Space Server Samples" on page 9
- "Portal Coordination Service" on page 9
- "Developer Tools for Sun GlassFish Web Space Server" on page 10

Web Services for Remote Portlets 2.0 Features

The Web Services for Remote Portlets (WSRP) specification is defined by the WSRP Technical Committee at the Organization for the Advancement of Structured Information Standards (OASIS). OASIS recently approved the latest version of the WSRP specification, called WSRP version 2.0. The OASIS approved WSRP 2.0 version is available in the Sun GlassFish Web Space Server from the Control Panel in the Welcome menu.

The OASIS WSRP version 2.0 specification defines the following additional functionalities over the WSRP version 1.0 specification:

- Eventing
- Shared/Public Render Parameters
- Caching

- Leasing
- Resource Serving

The Sun GlassFish Web Space Server implements all the mandatory features and some of the major optional features that are defined in the WSRP version 2.0 specification. The WSRP 2.0 feature available in the Sun GlassFish Web Space Server builds on the OpenPortal Portlet Container Project that implements a fully compliant JSR286 specification. The OpenPortal Portlet Container is part of the Sun GlassFish Web Space Server and JSR286 is a specification from the Java Community Process (JCP), which defines Java Portlet Specification 2.0.

For more information, visit the WSRP project web site.

Simple API for Workflow Features

New features related to Simple API for Workflow (SAW) are:

- The Workflow portlet in this release is implemented using SAW and `saw-impl` classes for Java Business Process Management (JBPM).
- An Expense Report portlet is available in this release. This is a sample application built on top of SAW to showcase a custom workflow application.

For more information, visit the SAW project web site.

Presence Feature

The Presence infrastructure in Sun GlassFish Web Space Server provides communication mechanisms for a user who logs in to Sun GlassFish Web Space Server. The Presence infrastructure displays the online or offline status of a user and the chat communication mechanism, next to wherever the user profile is displayed on Sun GlassFish Web Space Server. Using the Presence infrastructure, developers can enable their widgets on Sun GlassFish Web Space Server with the availability information for a user.

For more information, visit the Presence project web site.

Content Management System Features

The new features related to Content Management System (CMS) is:

- You can use the Web Content tag library to access the content of an article from any portlet in Sun GlassFish Web Space Server.

For more information, visit the Content Management System/Mirage project web site.

Control Panel for Sun GlassFish Web Space Server Administration

In the Sun GlassFish Web Space Server 10.0 release, you can access all the administrator portlets by clicking Control Panel in the Welcome menu. In the previous releases, you were able to access these portlets by clicking Add Application.

Sun GlassFish Web Space Server Samples

Default samples are available in Sun GlassFish Web Space Server 10.0. A number of users and a community are created and provided basic layouts with default public and private pages to demonstrate Sun GlassFish Web Space Server functions.

The default samples that are available to you are:

- Social Space Sample – Demonstrates the social networking features of the Sun GlassFish Web Space Server portal. The Social Space Sample is a user group. The users of this user group are provided with all the sample pages added to their My Community Public and Private pages.
- CMS Sample – Demonstrates the content management features available in the Sun GlassFish Web Space Server portal. This sample adds a community named "CMS".
- Enterprise Space Sample – Demonstrates the other features of an enterprise such as workflow management, inter widget, inter language widget communication and so on.

Every Sample has an Information page in the public page, which explains in detail about that particular sample. The guest page of the Evaluation bundle has a "Sample Users" portlet that can be used to express login different users of different samples. If you select a particular sample from the drop down list, all the users available in that sample appears. All the samples and this "Sample Users" portlet are a part of evaluation bundle of the Sun GlassFish Web Space Server.

Portal Coordination Service

The Portal Coordination Service bridges portlet events to portal services. It allows portlets to publish standard JSR 286 portlet events to interact with Sun GlassFish Web Space Server services. The Portal Coordination Service available in the release, bridges to the Sun GlassFish Web Space Server social activity service.

The Roller Weblogger portlet makes use of the Portal Coordination Service to add Roller Weblog posts and edits to the set of social activities. These are summarized in the activities portlet.

Developer Tools for Sun GlassFish Web Space Server

Sun GlassFish Web Space Server provides the following tools for developers to develop and deploy portlet applications.

NetBeans Portal Pack 3.0 Milestone 2 Features

Portal Pack 3.0 Milestone 2 modules support the complete life cycle of portlet application development. Using the Portal Pack modules, you can develop, package, deploy, and test portlet applications for deployment on Sun GlassFish Web Space Server. The new features in the Portal Pack for NetBeans 6.5 IDE are:

- Generic Portlets (JSR 168/286) – This plugin supports you to develop JSR 168/286 generic portlets in the NetBeans IDE.
- Visual Portlet Builder (JSF Portlet) – This module enables portlet developers to build JSF based portlet applications in NetBeans by dragging and dropping components on the WYSIWYG Visual Editor.
- Spring MVC Portlet Plugin – This module supports you to create portlets based on the Spring MVC Portlet Framework.
- OpenPortal Portlet Container Plugin – This plugin provides support to integrate the OpenPortal Portlet Container. You can deploy the portlets that you develop in the NetBeans IDE, directly to the OpenPortal Portlet Container by designating the portlet container as the run-time server for a portlet application. For more information, see the OpenPortal Portlet Container website.
- Sun GlassFish Web Space Server/Liferay Plugin – This plugin supports the integration of Sun GlassFish Web Space Server/Liferay Server within the NetBeans IDE.
- Sun GlassFish Web Space Server Portlets (Ruby, PHP, and Groovy) – This plugin supports the development of Ruby, PHP, and Groovy portlets, which you can deploy on Sun GlassFish Web Space Server.
- Sun GlassFish Web Space Server/Liferay Service Builder Plugin – This plugin provides support to the Liferay Service builder within the NetBeans IDE.
- Sun GlassFish Web Space Server Tag Library Palette – This plugin provides a JSP tag library palette for Sun GlassFish Web Space Server/Liferay specific tag library.
- SAW Plugin – A NetBeans plugin for SAW.
- CMS Tag Library Plugin – A NetBeans plug-in for CMS.
- Sun Java System Portal Server 7.1/7.2 Plugin – This plugin provides support for the Sun Java System Portal Server 7.1 or 7.2 server integration within the NetBeans IDE.

For more information, visit the portal pack project web site.

Eclipse Portal Pack Software

The Eclipse Portal Pack provides a set of plugins to help you to develop JSR 168/286 portlets and deploy them on supported portlet containers. For more information, visit the Eclipse Portal Pack project web site.

ViewDesigner Plugin

The ViewDesigner plugin available in this release enables a web designer to design and customize the theme of a portal page. You can download the plugin from the ViewDesigner project web site. For more information on designing and customizing a theme, see the Sun GlassFish Web Space Server *Sun GlassFish Web Space Server 10.0 Developer's Guide*.

◆ ◆ ◆ CHAPTER 3

Sun GlassFish Web Space Server 10.0 Known Issues and Limitations

This chapter describes known issues and limitations for the Sun GlassFish Web Space Server 10.0 software.

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- "GlassFishRegistration Portlet Issue" on page 16
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- "Other Issue" on page 17
- "For More Information About Sun GlassFish Web Space Server" on page 17

Installation Issues

`The Sun GlassFish Web Space Server does not get installed when you use Application Server 9.1.1 Enterprise Edition as the web container.`

Description: When you install Application Server 9.1.1 Enterprise Edition and run the `install.xml` file from `websynergy-for-gfv2.zip`, you will get the following exception.

```
install:
   [mkdir] Created dir: /var/tmp/root/websynergyinstall

update-glassfish:
    [exec] CLI168 Could not delete the following jvm options. Options do not exist:
    [exec] -client
    [exec] CLI137 Command delete-jvm-options failed.
    [exec] Result: 1
    [exec] CLI167 Could not create the following jvm options. Options exist:
    [exec] -server
    [exec] CLI137 Command create-jvm-options failed.
    [exec] Result: 1
    [exec] server.log-service.module-log-levels.property.debug.com.sun.portal.
        portletcontainer = WARNING
    [echo] Stopping GlassFish...
```

```
[echo] Execute /opt/SUNWappserver/bin/asadmin stop-domain if install hangs.
[exec] Domain domain1 stopped.
```

Solution: Perform the following steps to install Sun GlassFish Web Space Server on Application Server 9.1.1 Enterprise Edition.

1. Install the Application Server 9.1.1 Enterprise Edition.
2. Download `webspace-for-gfv2.zip` and unzip the bundle.
3. Add the following code to the `server.policy` file.

```
grant codeBase "file:${com.sun.aas.instanceRoot}/lib/-" {
   permission java.security.AllPermission;
};
// permissions for WebSynergy
grant codeBase "file:${com.sun.aas.instanceRoot}/applications
/j2ee-modules/webspace/-" {
permission java.security.AllPermission;
};

grant codeBase "file:${com.sun.aas.instanceRoot}/applications
/j2ee-modules/saw-web/-" {
permission java.security.AllPermission;
};
// Basic set of required permissions granted to all remaining code
grant {
..............
..............
permission java.lang.reflect.ReflectPermission "suppressAccessChecks";
};
```

4. Update the `portal-ext.properties` file (available at `webspace-for-gfv2/webspace/application/distribution/deploy/webspace/WEB-INF/classes/` with the following code.

```
auto.deploy.glassfish-tomcat.jee.dm.id=deployer:Sun:
AppServer::localhost:4848:https
```

Note – You need to add the above code in the `portal-ext.properties` file, only if the value of the `security-enabled` property is “true”.

---

5. Run the `ant -f install.xml` command from the `webspace-for-gfv2/webspace/application` directory.

`Harmless warning messages appear when you run install Sun GlassFish Web Space Server on Application Server 9.1.1 Enterprise Edition.`

Description: When you run the `install.xml` file from Sun GlassFish Web Space Server core bundle on Application Server 9.1.1 Enterprise Edition, you will get the following warning messages, which are not harmful to your installation.

```
update-glassfish:
     [exec] CLI168 Could not delete the following jvm options. Options do not exist:
     [exec] -client
     [exec] CLI137 Command delete-jvm-options failed.
     [exec] Result: 1
     [exec] CLI167 Could not create the following jvm options. Options exist:
     [exec] -server
     [exec] CLI137 Command create-jvm-options failed.
     [exec] Result: 1
     [exec] server.log-service.module-log-levels.property.debug.com.sun.portal.
         portletcontainer = WARNING
     [echo] Stopping GlassFish...
     [echo] Execute /opt/SUNWappserver//bin/asadmin stop-domain if install hangs.
     [exec] Domain domain1 stopped.
```

The reason for these harmless warning messages is that when the installer tries to update the JVM options in GlassFish, `asadmin` may output warnings about JVM options that it cannot change. For example, the installer tries to replace `-client` with `-server`. However, on Application Server 9.2 Enterprise Edition, `-client` has already been replaced with `-server`. So `asadmin` will output warning that it cannot find `-client` to remove and that it cannot add `-server` since it is already present.

`Using the Apache Ant that ships with the GlassFish web container causes error while you run the asadmin start-domain command.`

Description: If the version of the Apache Ant that ships with the GlassFish web container is in your installation path, then the `./asdamin start-domain` command will fail to execute and you cannot deploy the Sun GlassFish Web Space Server.

Solution: Download the Apache Ant 1.7 or later version and place it in the installation path. Moreover, you need to set `ANT_HOME` to the directory where you have placed the downloaded Apache Ant 1.7 or later version.

`All the Sun GlassFish Web Space Server WAR files failed to deploy on Red Hat Enterprise Linux (RHEL)and SUSE Linux versions.`

Description: When you install the Sun GlassFish Web Space Server with GlassFish web container on the RHEL and SUSE Linux operating system versions, all the WAR files are not deployed. This issue occurs when the maximum limit for open files is not sufficient to deploy the WAR files.

Solution: To increase the maximum limit for open files on the RHEL and SUSE Linux versions:

1. Add the following two lines to the `/etc/security/limits.conf` file.
   - **`* soft nofile 5000`**
   - **`* hard nofile 5000`**
2. Restart the system.

`The existing parameters in the input.properties file prevents the installation of Sun GlassFish Web Space Server on a second web container instance.`

Description: When you install the Sun GlassFish Web Space Server on the GlassFish web container and try to install again on another web container, you will not be prompted to enter new parameters for the second instance. The installation procedure in the second instance considers the parameters that are already provided in the first instance. This issue prevents the installation of Sun GlassFish Web Space Server on a second web container instance.

Solution: Remove the `input.properties` file from the `../etc/webspace/application/` directory and install the Sun GlassFish Web Space Server on a second web container instance.

GlassFishRegistration Portlet Issue

`The GlassFishRegistration portlet in Sun GlassFish Web Space Server does not work with JDK1.6`

Description: When you register for a new account in the GlassFishRegistration portlet in the Sun GlassFish Web Space Server, you will get the following error message.

```
An error has occured while processing your request
Error Details : java.security.cert.CertificateException:
The certificate chain from the server is not trusted
```

Solution: Restart the GlassFish server for the registration to work.

Localization Issues

`Multi Lingual version of GlassFish V2 needs to be shipped with the Sun GlassFish Web Space Server.`

Description: The Image Packaging System (IPS) needs to be updated with the Multi Lingual package of GlassFish V2, which can be picked up by the Sun GlassFish Web Space Server. This allows a user to use the Administration console and other features in GlassFish V2 in the native language.

Solution: These are the two options to solve this issue.

- When the Multi Lingual packages are available in the GlassFish Update Centre, you can use the IPS update to update the GlassFish install with Multi Lingual features.

- You can download and install the Multi Lingual version of GlassFish V2 and then install Sun GlassFish Web Space Server.

`Multi Lingual labels of Tag name and Search option are corrupted in the WebContent, Wiki, and Blog portlets.`

Description: The Multi Lingual labels of Tag name and Categories that are available in the WebContent, Wiki, and Blog portlets are corrupted.

Solution: Create the Tag name and Categories in English language.

Other Issue

`To enable the Map and IPGeocoder portlets, you need to install MaxmindGeoIP city or GeoLite City.`

Description: When you add the Map and IPGeocoder portlets to a portal page, a message appears in both the portlets to install and configure MaxmindGeoIP city or GeoLite City.

For More Information About Sun GlassFish Web Space Server

Thanks for evaluating Sun GlassFish Web Space Server 10.0. For the most recent updates on this project, see the Sun GlassFish Web Space Server home page. Visit the following web sites for more information about products that might be useful while you evaluate Sun GlassFish Web Space Server.

- NetBeans – An open source, free IDE that runs on the Solaris, Linux, Macintosh OS X, and Windows platforms.
- Liferay Portal – Sun™ Microsystems is part of the Liferay community. The Sun GlassFish Web Space Server 10.0 release is based on the Liferay portal server community edition 5.2.
- MySQL – The world's most popular open source database.
- GlassFish– An open source application server project led by Sun Microsystems℠ for the Java Enterprise Edition (Java EE™) platform.