

1. Introduction

1.1. Project/Component Working Name:

GlassFish V3 Installation/Uninstallation Program.

1.2. Name(s) and e-mail address of Document Author(s)/Supplier:

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1.3. Date of This Document:

08/21/2008.

2. Project Summary

2.1. Project Description:

Product installer/uninstaller for GlassFish V3 distribution.

This installer

2.2. Risks and Assumptions:

1). This project has dependency on OpenInstaller framework and hence

would require product support to resolve upcoming issues.

2). The project depends on a stable update center bootstrap tool.

3). Fixes for security alerts should be resolved and available in zlib software libraries that the installer depends on.

4). Registration feature of this project depends on back-end implementation of same in GlassFish V3, that in turn depends on stable

sysnet infrastructure.

5). Administration command line 'asadmin' should be stable as this installer invokes the same during installation to setup GlassFish domain. Currently create-domain and stop-domain commands are used.

3. Problem Summary

3.1. Problem Area:

End users require reliable and easy to use product installer in order

to access and use all of the product features.

3.2. Justification:

Installer is a required interface to expose product features and functionalities.

4. Technical Description:

4.1. Details:

Main objective of this project is to provide an installer for GlassFish V3. The installer will use a combination of zip files and individual files and will support non-root installation on Solaris

and Linux.

The installer has the following features:

- * Support for Silent and GUI modes of installation.
- * Online help.
- * Product Registration.
- * Automated Configuration to setup GlassFish domain and update

center.

- * A self-extracting executable for ease-of-launching the installer.
- * Desktop integration on Windows and Gnome based desktops for GlassFish menu and items.
- * Update center notifier will be integrated in the desktop.

Installer will support following platforms: Solaris, Linux, Windows and MacOS.

4.2. Bug/RFE Number(s):

N/A.

4.3. In Scope:

N/A.

4.4. Out of Scope:

- 1). This project will not address the installation of product native packages.
- 2). Direct In-Place Upgrade from earlier versions of Application Server are not supported.
- 3). This project does not support interactive command-line installation
- 4). Mac desktop integration not supported as Open Installer does not provide a mechanism to do the same.

4.5. Interfaces:

4.5.1 Exported Interfaces

Interface: setup[.exe | .sh]

Stability: unstable

Comments:

setup[.exe | .sh] [-options]

where options include

-a <answer file>, this is to run the program in

silent

mode without user interaction.

-R <Alternate Root Directory>

-l <Log Directory>

-q Logging level set to WARNING

-v Logging level set to FINEST

used.
and
inputs.

```
-j <javahome> JRE/JDK installation directory to be  
-n <answer file to be generated>, runs the program  
generates the given answer file by capturing user  
This can later be used with -a option to run in  
non-interactive mode.  
-h | -help <Help message>.
```

Interface: `uninstall[.exe | .sh]`

Stability: unstable

Comments:

```
uninstall[.exe | .sh] [-options ]  
where options include  
-a <answer file>, this is to run the program in  
silent  
mode without user interaction.  
-R <Alternate Root Directory>  
-l <Log Directory>  
-q Logging level set to WARNING  
-v Logging level set to FINEST  
-j <javahome> JRE/JDK installation directory to be  
used  
by this program.  
-h | -help <Help message>.
```

Interface: Silent Installer State-file

Stability: unstable

Comments: Current parameters that can be customized by the

user.
in
netbeans

Detailed information about possible options will be documented
the installation guide. The parameter file along with product
binaries will be handed over to other Sun products like
that bundle a version of GlassFish V3.

openInstaller Dry Run Answer File. This File can be used as input
to

the openInstaller engine using the -a option.

```
#Mon Jun 30 14:00:44 PDT 2008
```

```
RegistrationOptions.regoptions.CREATE_NEWACCT=CREATE_NEWACCT
```

```
updatetool.Configuration.PROXY_PORT=
```

```
RegistrationOptions.regoptions.SKIP_REGISTRATION=SKIP_REGISTRATION
```

```
glassfish.Administration.A_ADMIN_PORT=4848
```

```
glassfish.Administration.USE_ANONYMOUS=true
```

```
glassfish.Administration.ADMIN_USERNAME=
```

```
glassfish.Administration.ADMIN_PASSWORD=
```

```
updatetool.Configuration.PROXY_HOST=
```

```
SOAccountCreation.accountinfo.COUNTRY=  
InstallHome.directory.INSTALL_HOME=/Users/sathyan/glassfish-v3tp2  
RegistrationOptions.regoptions.USE_EXISTINGACCT=USE_EXISTINGACCT  
SOAccountCreation.accountinfo.FIRSTNAME=  
updatetool.Configuration.ALLOW_UPDATE_CHECK=true  
SOAccountCreation.accountinfo.PASSWORD=  
SOAccountCreation.accountinfo.COMPANYNAME=  
SOAccountCreation.accountinfo.COUNTRY_DROP_DOWN=  
SOAccountCreation.accountinfo.REENTERPASSWORD=  
License.license.ACCEPT_LICENSE=0  
RegistrationOptions.regoptions.USERNAME=  
SOAccountCreation.accountinfo.LASTNAME=  
updatetool.Configuration.BOOTSTRAP_UPDATETOOL=true  
RegistrationOptions.regoptions.USERPASSWORD=  
glassfish.Administration.A_HTTP_PORT=8080  
SOAccountCreation.accountinfo.EMAIL=
```

Interface: Windows/Gnome Desktop Menu Items

Stability: unstable

Comments:

Windows:

```
Start-> All Programs-> GlassFish v3 Prelude  
Start Application Server  
Stop Application Server  
Start Update Tool  
About GlassFish v3 Prelude  
Uninstall
```

Gnome:

```
Applications -> Servers -> GlassFish v3 Prelude  
Start Application Server  
Stop Application Server  
Start Update Tool  
About GlassFish v3 Prelude  
Uninstall
```

For 2nd and subsequent installations, reference to installation directory will be added to "GlassFish v3 Prelude" folder name.

4.5.2 Imported interfaces

Interface: Update Center bootstrap tool

Stability: Unstable.

Exporting Project:

<http://wiki.updatecenter.java.net/Wiki.jsp?>

page=UC20FSD.InitInterface.

Comments: None.

Interface: OpenInstaller
Stability: External.
Exporting Project: <https://openinstaller.dev.java.net>.
Comments: None.

Interface: zlib libraries.
Stability: External.
Exporting Project: <http://www.gzip.org/zlib>
Comments: None.

Interface: asadmin.
Stability: Unstable.
Exporting Project: GlassFish V3.
Comments: Following asadmin subcommands and parameters are used

by

installer:

```
* asadmin create-domain --savelogin --no-checkports --adminport  
<adminport> --user <username> --passwordfile <passwordfile>  
  --instanceport <httpport> domain1
```

```
* asadmin stop-domain <domain-name>
```

Interface: product registration apis.
Stability: Unstable.
Exporting Project: GlassFish V3.
Comments: None.

Interface: File Layout specification.
Stability: Unstable.
Exporting Project: [http://wiki.glassfish.java.net/attach/
V3FunctionalSpecs/V3PreludePackagingFileLayout.txt?version=6](http://wiki.glassfish.java.net/attach/V3FunctionalSpecs/V3PreludePackagingFileLayout.txt?version=6)
Comments: None.

4.5.3 Other interfaces (Optional)

N/A.

4.6. Doc Impact:

Installation guide, Quick Start guide, Compatibility Guide
are to be modified.

4.7. Admin/Config Impact:

NONE

4.8. HA Impact:

NONE

4.9. I18N/L10N Impact:

Yes, the resource strings used by this installation program including the license text have to be localized.

4.10. Packaging & Delivery:

The installer will be distributed as a self-extracting archive on all of the supported platforms.
-IPS package database corresponding to installed packages will also be delivered.
-Native distributions are not supported on all supported platforms.

4.11. Security Impact:

1). Installation process will expose ports for the following
-Port used by GlassFish V3 administration domain
-HTTP proxy server port used for product registration and update center.
2). Installation process will accept passwords required for setting up a Sun Online Account required for product registration.
3). Installation process will accept passwords required for setting up a GlassFish administration domain.

4.12. Compatibility Impact

1). This installation program is not compatible with earlier releases of GlassFish installation interfaces as different incompatible frameworks are used to develop them. State-files(silent installation) generated out of the earlier versions of application server product installers cannot be used with this program.

2). Upgrade of binaries that belong to earlier versions of GlassFish through this installation program are not supported.

4.13. Dependencies:

- 1). zlib 1.1.4
- 2). Open Installer 1.0
- 3). Sysnet Infrastructure
- 4). asadmin
- 5). Update Center bootstrap tool
- 6). File Layout specification.

5. Reference Documents:

1. <https://openinstaller.dev.java.net/docs/index.html>
2. <http://www.gzip.org/zlib/>
3. <http://wiki.updatecenter.java.net/Wiki.jsp?page=UC20FSD.InitInterface>

6. Schedule:

6.1. Projected Availability:

This project is likely to be available for use by late August' 2008.