
Title : GlassFish v3 Installation Test Specification

Description:

- This document contains the test cases for the installer/
uninstaller of
the GlassFish V3 distribution. It also contains the test cases
for the
installer related sub components: registration and updatetool.

Overview:

1. GUI Installation / Registration
2. Installation options
3. Silent Installation
4. Uninstall
5. Update Tool
6. Document Review
7. Out of scope / Not supported features
8. Bug/RFE
9. Reference documents
10. Version History
11. Test Result

Features:

NOTE: Features prefixed with "***" are new features of V3 post
Prelude release.

TC= Test case #

TC 4.2 ** Support uninstallation in silent mode.

TC 3.4 ** Mask passwords stored in silent file.

TC 2.10 ** Support custom JDK path in addition to automatic
detection.

TC 2.11 ** Co-existence of different product distributions(javaee,
web
only etc.,) in a single machine.

TC 2.12 ** Reduced download size of files required for installer
program,

by about ~4MB(compared to v3 distribution).
TC 2.13 ** All of the port numbers used by V3 server can now be customized

during installation.
TC 4.9 ** Uninstallation program will be aware of components installed

through update tool.
TC 2.14 ** Windows service support.

TC 1, 3 * Support for Silent and GUI modes of installation.

TC 1.11 * Online help.

TC 1.9 * Product Registration.

TC 1.13, 1.5 * Automated Configuration to setup GlassFish domain and

update center.
TC 1 * A self-extracting executable for ease-of-launching the installer.

TC 1.12 * Desktop integration on Windows and Gnome based desktops for
GlassFish menu and items.

TC 5.8 * Update center notifier will be integrated in the desktop.

Supported platforms: Solaris 10 SPARC, Solaris 10 X86, RedHat EL 5, SuSE ES 10, Ubuntu 8.x, Windows XP, Windows Vista, Windows 2008, and Mac OS X.

GFv3 Preview supported platforms:

Tier 1: OpenSolaris 11.08, Solaris 10 X86U5, Windows XP SP3

Tier 2: Mac OS X 10.5.6, Red Hat EL 5

Tier 3: Ubuntu 8.04, Windows Vista SP1

Other areas of interest:

- Section 508 Compliance:
[Issue 5542] GFv3Prelude: Section 508 compliance issues
>> NOTE: Section 508 is not committed for Preview release.
>> NOTE: GFv3 will need to use new tool for Section 508 compliance.

Query:

- For single bug:
https://glassfish.dev.java.net/issues/show_bug.cgi?id=<Issue No.>

- All open installation bugs:
Go to <https://glassfish.dev.java.net/issues/query.cgi>
Select Installation for Subcomponent.
Select V3 for Target milestone.

Test Cases:

Although these test cases reflect the GUI components of the installation screen, end-to-end (i.e. complete) installation will be performed where applicable. In general, the test case itself is self descriptive. If not, additional description is provided.

1. GUI Installation:

To launch the installer, invoke <distribution_name>.exe for Windows or <distribution_name>.sh for Unix/Linux/MacOS
Note: <distribution_name>.dmg for Mac OS is not supported.

1.1 Welcome screen

- 1.1.1 Text -verify typo, product's name, version, etc.
- 1.1.2 Cancel-Yes, exit installer if selected
- 1.1.3 Cancel-No
- 1.1.4 Next -go to the next screen if selected

1.2 License screen

- 1.2.1 Text of License
- 1.2.2 Accept -Next is activated if selected
- 1.2.3 Do not accept -Default=selected
- 1.2.4 Do not accept -Next is not activated
- 1.2.5 Back -go to the previous screen if selected

1.3 Install Home screen

- 1.3.1 Install Directory -Default=C:\glassfishv3
- 1.3.2 Install Directory -Default=\$HOME/glassfishv3 for Unix
// i.e. /glassfishv3 for Solaris 10
// or /root/glassfishv3 for RedHat Linux 5
// or /home/<user-id>/glassfishv3 for non-root user

- 1.3.3 Install Directory-Nondefault
 - 1.3.4 Browse button (...)
 - 1.3.5 Cancel
 - 1.3.6 Back - if click, verify that value of license's choice is retained
 - 1.3.7 Next - go to the next screen if selected
- 1.4 GlassFish Configuration
- // Note: XXXX denotes user supplied value
- 1.4.1 Anonymous Authentication -Default=enable
 - 1.4.2 Anonymous Authentication -Nondefault=disable
 - Admin Name=XXXX
 - Admin Password=XXXX
- >>FAIL 1.4.2.1 Check for Admin Password > 8 characters
- >>[Issue 6595] Windows installer accepts the password less than 8 chars and fails to create-domain
- 1.4.3 Admin Port -Default=4848
 - 1.4.4 HTTP Port -Default=8080
 - 1.4.5 Admin Port -Nondefault=XXXX
 - 1.4.6 HTTP Port -Nondefault=XXXX
 - 1.4.7 Cancel
 - 1.4.8 Back -value of install home is retained if selected
 - 1.4.9 Next -go to the next screen if selected
 - 1.4.10 Next -click Back of the next screen and verify values of the
 - ports are retained
 - 1.4.11 Check for used ports: Install in a different location with the same ports of previous installation.
 - 1.4.12 Check for invalid ports: Install with invalid port number, i.e. out of range
- >>NA 1.4.13 New panel of accepting additional ports (JMS, JMX, ... etc.)
- >> NOTE: Not committed for Preview release.
- 1.4.14 New panel for JDK location (detection)
- 1.5 Update Configuration
- 1.5.1 Install Update Client -Default=Selected
 - 1.5.2 Install Update Client -install without selected
 - 1.5.3 Proxy Host -Default=empty
 - 1.5.4 Proxy Port -Default=empty
 - 1.5.5 Enable Updatecenter client -Default=Selected
 - 1.5.6 Enable Updatecenter client -install without selected
 - 1.5.7 Cancel
 - 1.5.8 Back -verify values of ports are retained if selected
 - 1.5.9 Next -go to the next screen if selected
 - 1.5.10 Next -click Next and click Back of the next screen and
 - verify values of the selections are retained
 - 1.5.11 Set up a proxy server and install using the same proxy host and

port. Verify if the same proxy info is transferred to
Update Tool

1.6 Ready To Install screen

- 1.6.1 Check text description and version of the following:
- 1.6.2 Text-Install UC Bootstrap
- 1.6.3 Text-Install GFV3 AS
- 1.6.4 Text-Install Installation & Uninstallation SW
- 1.6.5 Text-Configure UC Bootstrap
- 1.6.6 Text-Configure GFV3 AS
- 1.6.7 Cancel
- 1.6.8 Back
- 1.6.9 Next

1.7 Progress screen

- 1.7.1 Progress bar
- 1.7.2 Cancel
- 1.7.3 Back=not activated (grayed out)
- 1.7.4 Next=not activated (grayed out)
- 1.7.5 Verify if marketing texts/images display properly

1.8 Summary screen

- 1.8.1 Overall Status: Complete
- 1.8.2 Text
- >>FAIL 1.8.3 Link1 -"detailed summary report" which points to
install-summary.html below
- >>[Issue 4964] GFV3TP2: Log file still contains reference to Engine 1.0
- >> NOTE: Links work on Windows and some unix platforms but not all.
- 1.8.4 Link2 -"next steps"
- 1.8.5 Link3 -"log file" which points to install.log below
- 1.8.6 Link4 -<time-stamp>-install-summary.html
- >>FAIL 1.8.7 Link5 -<time-stamp>-install.log
- >>[Issue 4881] Install log file is not readable
- 1.8.8 Individual product's status
- 1.8.9 Cancel=grayed out
- 1.8.10 Back=grayed out
- 1.8.11 Exit

1.9 Registration screen

- 1.9.1 Existing SOA (Sun Online Account)
 - 1.9.2 New SOA - Default
- >> [Issue 6030] [installation] GFv3Prelude: Warning registration error
message should be removed from the terminal console or presented in a
readable format.
- >> NOTE: WON'T FIX - registration backend issue
- >>[Issue 6031] [installation] GFv3Prelude: Installer should advance to the
Summary screen after the registration is successful.

1.9.3 Skip registration

1.10 User Type

// Solaris and Linux

1.10.1 Root

1.10.2 Non-root

1.11 Online Help

1.11.1 TBD

1.12 Desktop Integration

// Windows

1.12.1 Start-> All Programs-> GlassFish v3

1.12.2 Start Application Server

1.12.3 Stop Application Server

1.12.4 Start Update Tool

1.12.5 About GlassFish v3

1.12.6 Uninstall

// Gnome based desktops (Solaris & Linux)

1.12.7 Applications -> Servers -> GlassFish v3

1.12.8 Start Application Server

1.12.9 Stop Application Server

>> NOTE: OS specific: Need to check for SuSE Linux: Unable to see the shortcuts for SuSE Linux even after logged out and logged in.

1.12.10 Start Update Tool

1.12.11 About GlassFish v3

1.12.12 Uninstall

1.12.13 For 2nd and subsequent installations, reference to installation

directory will be added to "GlassFish v3" folder name.

1.13 Glassfish domain

1.13.1 Created

1.13.2 Able to start

1.13.3 Able to stop

1.14 Distribution awareness

1.14.1 Product name corresponding to different distribution, i.e. v3 vs. v3 web or sges

2. Installation Options

```

2.1    setup[.exe | .sh] [-options ]
        // where options include
2.2    -a <answer file>
        // this is to run the program in silent mode
without
        // user interaction.
        // Need to use along with -s
>>NA   2.3    -R <Alternate Root Directory>
>> [Issue 5672] GFv3Prelude: Installer -R option does not work
>> NOTE: -R option is not support for this release; thus, this test case is
        no longer valid; see issue 5672
2.4    -l <Log Directory>
2.5    -q Logging level set to WARNING
2.6    -v Logging level set to FINEST
2.7    -j <javahome> JRE/JDK installation directory to be
used.
2.8    -n <answer file to be generated>
        // runs the program and generates the given answer
file
        // by capturing user inputs.
        // This can later be used with -a option to run in
non-
        // interactive mode.
2.9    -h | -help <Help message>.
2.10   ** Support custom JDK path in addition to automatic
detection.
        // Install JDK on system and check if the installer
        // automatically detect it.
2.11   ** Co-existence of different product distributions(javaee,
web
        only etc.,) in a single machine.
        // Install different distribution on the same
machine and
        // make sure all servers are able to start.
2.12   ** Reduced download size of files required for installer
program,
        by about ~4MB (compared to v3 distribution).
>>NA   2.13   ** All of the port numbers used by V3 server can now be
customized
        during installation.
>> NOTE: Not committed for the Preview release.
2.14   ** Windows service support.
        // Start and stop the server using Windows service.
>> NOTE: Windows service support is not committed (depending on Admin CLI
support)
-----
-----
3. Silent Installation
-----
-----

```

```

3.1    Install using default values
3.2    Install using non-default values
3.3    Install using headless system
        // to make sure that installation works on a system without
GUI
        // support libraries.  Installer should go to text mode to
warn the
        // user
>> NOTE: Help is updated to remove -text option since it is not supported.
>>NA    3.4    ** Mask passwords stored in silent file.
        // Generate the state file and check that passwords are
masked.
>> NOTE: Mask passwords feature is not committed.

```

Sample state file:
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
InstallHome.directory.INSTALL_HOME=/Users/sathyan/glassfish-v3tp2
License.license.ACCEPT_LICENSE=0
GlassFish.administration.ADMIN_PORT=4848
** GlassFish.administration.ADMIN_PASSWORD_OBFUSCATED=TRUE
GlassFish.administration.ADMIN_PASSWORD=
GlassFish.administration.ADMIN_USERNAME=
GlassFish.administration.USE_ANONYMOUS=true
GlassFish.administration.HTTP_PORT=8080
SOAccountCreation.accountinfo.COMPANYNAME=
SOAccountCreation.accountinfo.COUNTRY=
SOAccountCreation.accountinfo.COUNTRY_DROP_DOWN=
SOAccountCreation.accountinfo.EMAIL=
SOAccountCreation.accountinfo.FIRSTNAME=
SOAccountCreation.accountinfo.LASTNAME=
** SOAccountCreation.accountinfo.PASSWORD_OBFUSCATED=TRUE
SOAccountCreation.accountinfo.PASSWORD=
SOAccountCreation.accountinfo.REENTERPASSWORD=
** SOAccountCreation.accountinfo.STUDENT_USER=FALSE
** GlassFish.javaconfig.JAVA_PATH=
RegistrationOptions.options.CREATE_NEWACCT=TRUE
RegistrationOptions.options.SKIP_REGISTRATION=FALSE
RegistrationOptions.options.USE_EXISTINGACCT=FALSE
RegistrationOptions.options.USERNAME=
RegistrationOptions.options.USERPASSWORD=
** GlassFish.portconfig.HTTP_SSL_PORT=8080
** GlassFish.portconfig.JMS_PORT=7676
** GlassFish.portconfig.JMX_PORT=8686
** GlassFish.portconfig.ORB_LISTENER_PORT=3700
** GlassFish.portconfig.ORB_MUTUALAUTH_PORT=3920
** GlassFish.portconfig.ORB_SSL_PORT=3820

```

```
updatetool.configuration.ALLOW_UPDATE_CHECK=true
updatetool.configuration.BOOTSTRAP_UPDATETOOL=true
updatetool.configuration.PROXY_HOST=
updatetool.configuration.PROXY_PORT=
```

NOTE: entries prefixed with "***" are to support new features introduced post prelude release.

Actual sample of Preview's statefile:

Sample state file:

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

the openInstaller engine using the -a option.

```
#Fri May 22 16:05:22 PDT 2009
```

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

```
glassfish.Administration.HTTP_PORT=8080
```

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

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

```
JDKSelection.directory.JDK_FROM_LIST_CHOICE=true
```

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

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

```
SOAccountCreation.accountinfo.COUNTRY=
```

```
InstallHome.directory.INSTALL_HOME=C:\
```

```
\glassfishv3b47csdkpromotedfull
```

```
RegistrationOptions.regoptions.USE_EXISTINGACCT=USE_EXISTINGACCT
```

```
SOAccountCreation.accountinfo.FIRSTNAME=
```

```
glassfish.Administration.NON_ANONYMOUS=NON_ANONYMOUS
```

```
updatetool.Configuration.ALLOW_UPDATE_CHECK=true
```

```
glassfish.Administration.ADMIN_USER=
```

```
JDKSelection.directory.JDK_LIST=C:\\Program Files\\Java\\
```

```
\jdk1.6.0_13 (v. 1.6.0_13 by Sun Microsystems Inc.)
```

```
SOAccountCreation.accountinfo.PASSWORD=
```

```
SOAccountCreation.accountinfo.COMPANYNAME=
```

```
glassfish.Administration.ANONYMOUS=ANONYMOUS
```

```
JDKSelection.directory.HIDDEN_JDK=C:\\Program Files\\Java\\
```

```
\jdk1.6.0_13
```

```
SOAccountCreation.accountinfo.COUNTRY_DROP_DOWN=
```

```
SOAccountCreation.accountinfo.REENTERPASSWORD=
```

```
License.license.ACCEPT_LICENSE=0
```

```
RegistrationOptions.regoptions.USERNAME=
```

```
updatetool.Configuration.BOOTSTRAP_UPDATETOOL=true
```

```
SOAccountCreation.accountinfo.LASTNAME=
```

```
glassfish.Administration.ADMIN_PORT=4848
```

```
RegistrationOptions.regoptions.USERPASSWORD=
```

```
JDKSelection.directory.JDK_TYPED_IN_CHOICE=false
```

```
SOAccountCreation.accountinfo.EMAIL=
```

```
JDKSelection.directory.JDK_TYPE_IN=
```

RegistrationOptions.regoptions.DUMMY_PROP=

4. Uninstallation

4. Uninstallation

>>[Issue 5854] [installation] GFv3Prelude: uninstall.sh does not have executable permission

>> NOTE: Not yet fixed for Preview release.

>>[Issue 6795] [installation] Uninstaller doesn't remove folders

>> NOTE: Uninstaller remove some but not all

4.1 uninstall[.exe | .sh] [-options]

where options include

>>NA 4.2 -a <answer file>

//this is to run the program in silent mode without

user

//interaction.

// This option -a is no longer applicable and is

replaced with

-s

>>NA 4.3 -R <Alternate Root Directory>

>> NOTE: -R option is not support for this release; thus, this test case is no longer valid; see issue 5672

>>FAIL 4.4 -l <Log Directory>

>>[Issue 8399] [installation] P2 - Umbrella bug for uninstaller's options:

-a, -l, -s, -n

4.5 -q Logging level set to WARNING

4.6 -v Logging level set to FINEST

4.7 -j <javahome>

// JRE/JDK installation directory to be used by

this

// program.

4.8 -h | -help <Help message>.

>>NA 4.9 ** Uninstallation program will be aware of components installed

through update tool.

>> NOTE: Not committed for Preview release

// Use update tool to install several components;

// perform uninstallation and check if those

components

// are also uninstalled.

5. Update Tool

5.1 Able to start from CLI

- 5.2 Able to start from Desktop
- 5.3 Selected available software component is able to install
- 5.4 Selected available software component is able to uninstall
- 5.5 Selected available update component is able to install
- 5.6 Selected available update component is able to uninstall
- 5.7 Able to stop from Desktop
- 5.8 Update center notifier from Desktop

6. Document Review:

-
- 6.1 Installation guide
 - 6.2 Quick Start guide

7. Out of Scope / Not supported features:

-
- 7.1 // Please see section 4.4 of the InstallerOnePager.txt

8.0 Bug/RFE Number(s):

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=5034(Gnome Desktop)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=5117(Unable to enter proxy information)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=5851(Reduce the size of installer by 4 mb by reusing engine and resources.zip)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=5888(Identify student user in the registration process)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6231(installation directory not-empty, add glassfish directory)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6302<Show advanced port defaults and let the user change it instead of silently accepting defaults>

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6466(Silent uninstallation support)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6733(uninstaller not cleaning up components installed through updatetool)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6779(windows service)

-https://glassfish.dev.java.net/issues/show_bug.cgi?id=6204(Use

correct properties file for sysnet registration, instead of hard-coding).
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6231(installation directory not-empty, add glassfish directory)
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=4896(naming consistency in components)
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6353(User experience improvement, provide meaningful error message).
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6365(unable to install on solaris 9, mktemp issue)
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6383(start program items consolidation, missing admin console and update center items).
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6595(<8 character password validation).
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6789(Embedded space)
 -https://glassfish.dev.java.net/issues/show_bug.cgi?id=6792(remove uninstall.sh from windows, distribute only operating system specific files).

9. Reference Documents:

9.1 <http://wiki.glassfish.java.net/attach/V3FunctionalSpecs/V3FinalInstallerOnePager.txt>

9.2 This document:

<http://wiki.glassfish.java.net/attach/V3FunctionalSpecs/GFv3PreviewInstallerTestSpec.txt>

(<http://wiki.glassfish.java.net/Wiki.jsp?page=V3FunctionalSpecs>)

10. Version History

File name: GFv3InstallerTestSpec.txt

Spec	Author	Version	Date of Test Spec	Date of Functional
	Nolan Luu	0.1	01/20/2009	01/14/09
	Nolan Luu	0.2	01/27/2009	
	Nolan Luu	0.3	03/12/2009	based on review
03/11/09				

Nolan Luu
results

0.4

05/22/2009

updated b47c test

11. Test results:

Build: GFv3 b47c / SDK Preview b03c
Total: 110 (The sum of test cases from section 1 to 5)
Executed: 103 (7 tests are not applicable/committed for Preview
release)
Pass: 99 or 96%
Fail: 4 or 4%
