1. Introduction
    1.1. Project/Component Working Name:
        GlassFish v3 Packaging

    1.2. Name(s) and e-mail address of Document Author(s)/Supplier:
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    1.3. Date of This Document:
        10/26/2009

2. Project Summary
    2.1. Project Description:
        This project defines product packaging used to deliver the content
of
GlassFish v3 release as standalone product distribution.

    2.2. Risks and Assumptions:
        Project depends on the stability and support for its imported
interfaces (mainly IPS). It also depends on the timely delivery and support
of package content files.

3. Problem Summary
    3.1. Problem Area:
        GlassFish v3 release has to be delivered as standalone product
installation integrated into Update Center 2.0 content delivery mechanism
based on Image Packaging System (IPS).

    3.2. Justification:
        File layout and packaging are essential product interfaces.

4. Technical Description:
    4.1. Details:

        Product packages will be organized based on functional component
boundaries and will be mapped to OSGi bundles. Package naming and
versioning
will follow IPS Packaging Best Practices document (see section 5 for link).

        Although this document does not cover any other package based
distributions of GlassFish v3 release, following similar file layout
and packaging structure will be strongly recommended for any other
distributions
based on this release (for instance, eventual RPM package based
distribution)
to the extent that is possible given the packaging and file layout rules
imposed to such distributions.

4.2. Bug/RFE Number(s):
   N/A

4.3. In Scope:
   Packaging for standalone IPS image based distribution of GlassFish
v3
release.

4.4. Out of Scope:
   Packaging for any other distributions based on GlassFish v3 release
and packaging for additional product functionality delivered in subsequent
GlassFish v3 releases or offered as additional content through update
center.

4.5. Interfaces:

4.5.1 Exported Interfaces

      Interface: GlassFish v3 IPS Packages
      Stability: Uncommitted
      Former Stability (if changing): N/A
      Comments: Described in section 4.5.1.1

4.5.1.1 GlassFish v3 IPS Packages

      Following IPS packages will be produced by GlassFish v3
build
and used to create GlassFish v3 distributions.

Package Name	Description	Dependency
felix	Felix OSGi framework	none
glassfish-hk2	HK2 framework	none
glassfish-grizzly	Grizzly NIO framework for GlasFish nucleus	none
glassfish-nucleus	Nucleus components	felix, glassfish-hk2, glassfish-grizzly, pkg-java
glassfish-grizzly-full	Grizzly NIO framework for GlassFish web/full	glassfish-grizzly

Package	Description	Dependencies
glassfish-corba-base	CORBA for Glassfish web distribution	none
glassfish-common	Common utilitis and components (including deployment, security)	glassfish-nucleus, glassfish-grizzly-full, glassfish-corba-base
glassfish-javahelp	JavaHelp for GlassFish	none
glassfish-upgrade	Upgrade tool	glassfish-common, glassfish-javahelp
glassfish-registration	Registration	glassfish-common
glassfish-management	RESTful management	glassfish-common, jersey
glassfish-jca	JCA	glassfish-common, glassfish-jta
glassfish-jpa	JPA	glassfish-jca
glassfish-jta	Local transaction support	glassfish-common
glassfish-jsf	JSF	glassfish-web
glassfish-web	Web container	glassfish-common
glassfish-jcdi	JCDI	glassfish-web
glassfish-jdbc	JDBC	glassfish-common
glassfish-gui	Admin GUI	glassfish-registration, glassfish-web
glassfish-ejb-lite	Lightweight EJB	glassfish-common
glassfish-common-full	Commons for Glassfish full distribution	glassfish-common
glassfish-corba	CORBA for GlassFish full distribution	glassfish-corba-base
glassfish-jts	XA Transaction support	glassfish-jta, glassfish-corba-

base

glassfish-jms	JMS	glassfish-common
glassfish-ejb	Full EJB container	glassfish-ejb-lite, glasfish-corba
glassfish-cmp	CMP container	glassfish-ejb
glassfish-scripting	Scripting (jRuby) support	glassfish-nucleus
metro	Metro web services stack	glassfish-common
jersey	Jersey RESTful web services	glassfish-common

In addition to these packages, following IPS packages delivered by other teams
will be included in GlassFish v3 distributions:

Package Name	Description	Dependency
pkg-java	pkg Java API	none
mq-core	Message Queue core	none
mq-server	Message Queue server	mq-core
mq-config-gf	MQ configuration for GlassFish	mq-server
mq-bin-exe	MQ Windows utilities	mq-core
mq-bin-sh	MQ Unix utilities	mq-core
javadb-client	JavaDB client	javadb-common
javadb-common	JavaDB commons	none
javadb-core	JavaDB server	javadb-common

Distributions will also contain following incorporation and metapackages used
to control the content and the versioning of particular distribution:

    glassfish-web-incorporation - incorporation package for GlassFish web
profile distribution

    glassfish-full-incorporation - incorporation package for GlassFish full

profile distribution

    glassfish-web-profile - metapackage for GlassFish web profile
distribution

    glassfish-full-profile - metapackage for GlassFish full profile
distribution

       4.5.2 Imported interfaces

        Interface: Image Packaging System (IPS)
        Stability: Uncommitted
        Exporting Project:
        http://opensolaris.org/os/project/pkg/
        Comments: IPS is ported to non-Solaris platforms by Update
Center
2.0 project

   4.6. Doc Impact:
     This project impacts product documentation in areas which need to
reference package names and content, mostly installation and upgrade
guides.

   4.7. Admin/Config Impact:
     Project defines the packaging of product files, including those
used for
product configuration. However, domain configuration files themselves are
not
under package system control.

   4.8. HA Impact:
     N/A

   4.9. I18N/L10N Impact:
     Additional localized content will be delivered following Java and
OSGi
guidelines and locale specific files will be packaged into IPS packages
which
will be named according to the base package for English version, i.e.
<base package name>-l10n.

   4.10. Packaging & Delivery:
     The proposal itself defines product packaging and delivery.

   4.11. Security Impact:
     N/A

4.12. Compatibility Impact

    Package names and content are consistent with those used for
GlassFish
v3 Prelude release. Compared to previous major release (v2), this release
uses new packaging format (IPS).

4.13. Dependencies:

    Proposal depends on the delivery of all GlassFish v3 release
product components defined in IPS package interface and it is sensitive to
changes in product content and OSGi bundling.

5. Reference Documents:

    In addition to imported interface documents referenced in section
4.5.2. following documents are of interest:

    * OSGi Integration One-pager
    http://wiki.glassfish.java.net/Wiki.jsp?page=V3FunctionalSpecs

    * IPS Packaging Best Practices - guidelines on IPS package naming
and
versioning
    http://ipshowto.org

6. Schedule:
   6.1. Projected Availability:
    December 2009