



*Equinox OSGi Service Bundles
- Graduation Review*

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Outline



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OSGi Service Implementations Overview



- The Equinox incubator contains bundles which implement several OSGi service specifications
- OSGi Declarative Services Specification
 - Uses a declarative model for publishing, finding and binding to OSGi services.
 - Simplifies the task of authoring OSGi services by performing the work of registering the service and handling service dependencies.
- OSGi Configuration Admin Specification
 - It allows an Operator to set the configuration information of deployed bundles.
 - Configuration is the process of defining the configuration data of bundles and assuring that those bundles receive that data when they are active in the OSGi Service Platform.
- OSGi Initial Provisioning Specification
 - Defines how the Management Agent can make its way to the Service Platform, and gives a structured view of the problems and their corresponding resolution methods.
 - Enables the management of a Service Platform by an Operator, and (optionally) to hand over the management of the Service Platform later to another Operator.

OSGi Service Implementations Overview (cont.)



- OSGi IO Connector Service Specification
 - Adopts the `javax.microedition.io` packages as a basic communications infrastructure.
 - In J2ME, the Connector framework can be extended by the vendor of the Virtual Machine, but cannot be extended at run-time by bundle code.
 - This specification defines a service that adopts the flexible model of the Connector framework, but allows bundles to extend it.
- OSGi Wire Admin Service Specification
 - An administrative service that is used to control a wiring topology
 - Used to wire components that produce data to components which consume data.

Active Communities



- Developer Community
 - The components being proposed for graduation provide many of the missing implementations of the OSGi Release 4.1 specification that are not available currently in the Equinox project
 - ProSyst Developers - Stoyan Boshev ,Pavlin Dobrev, Teodor Todorov
 - Donated four of the service implementations to the Equinox incubator
 - Codebase was already production quality and was used in many products
 - Developers have been responsive in fixing bug reports and getting the code ready for graduation.
 - Developers are committed to supporting this code after graduation
 - Equinox Committers – Simon Kaegi
 - Donated the Configuration Admin service implementation
 - Been used and tested by the Equinox community
 - Equinox team is committed to supporting this code after graduation
- User Community
 - Community has shown interest in Declarative Services and Configuration Admin implementations.

Active Communities (more)



- OSGi Community
 - The OSGi community is interested in consuming service implementations from Equinox
 - In some cases the implementations will be used as Reference Implementations
 - Declarative Services Specification
 - Additional testing is done to ensure the implementations pass the OSGi TCK.
 - For details on the service architecture details, please see the OSGi specification:
 - <http://www.osgi.org>

Open Source Operation



- The OSGi Service development has been ongoing in the Equinox Incubator component of the Eclipse Project Incubator
 - Use Bugzilla (bugs.eclipse.org) for workflow using the “Platform – Equinox - Incubator” product and component
 - Use equinox-dev mailing lists for developer discussions
 - Use eclipse.technology.equinox newsgroup for user discussions

IP Log



- The developers understand and adhere to the Eclipse Development Process, committer responsibilities and due diligence rules, as well as the Eclipse IP Policy.
 - IP Log:
<http://www.eclipse.org/equinox/documents/iplogs/EquinoxBundlesIPlog.html>

Future



- Focus for Eclipse 3.4 is to deliver quality service implementations from the OSGi R4.1 specification
 - No new API is proposed for graduation
 - All public API is defined by the OSGi Alliance and is already shipped by the Eclipse – Platform project.
- After a successful graduation review the components will move into the Equinox – Bundles component.
- In the future more work is needed to enable the OSGi service implementations to be utilized in Eclipse.