



ECF Project 3.0 Release Review

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Home Page: <http://www.eclipse.org/ecf>

Highlights



3.0 new features:

- Major Enhancements and Additions:
 - Implementation of OSGi R4.2 RFC119
 - Discovery API
 - R-OSGi protocol implementation
 - Filetransfer (using Apache httpclient 3.1 as provider)
 - Real-Time Shared Editing/Team Provider for Immediate Resource Sharing
- New API and Impls
 - Sync API – Distributed model synchronization (cola operational transformation)
 - Storage API – Secure storage/preferences for ECF IDs
 - User Search and Message Search (in presence API)
 - NIO provider for Datashare API
 - Discovery View

API quality:

- Major release, so breaking API changes.
- Some new API provisional
- Some deprecation (e.g. discovery)

End-of-life issues:

- None

IP Clearance and Licenses:

- All licenses and about files are in place as per the Eclipse Development Process, the Due Diligence Process was followed for all contributions

Highlights



Community and Committer Diversity:

- 13 committers, 8 active in past 9 months
- Organizations: EclipseSource (2), Individuals (6)
- Consumed by Eclipse Platform project (P2), Buckminster
- Consumed by Coffee Project: <http://www.coffee-soft.org/>
- Many contributors from diverse orgs: IBM, Cloudsmith, numerous small companies, individuals

Other Adopters: <http://wiki.eclipse.org/ECF/Adopters>



Themes and Plan Items

- **Model Synchronization**
 - Provide generalized synchronization API → Sync API
- **RT Collaboration for IDE**
 - Distribute resource changes to peers in RT
- **ECF For Runtimes**
 - Better support for proxies in filetransfer
- **Remote OSGi Services**
 - Provide transport-independent runtime API (ECF RS) and support/implement emerging standards (RFC119)
- **IM/Chat Features**
 - Fixed number of issues with XMPP provider, Skype provider
- **Application Integration**
 - Plan items deferred
- **Packaging and Deployment**
 - Deploy as p2 repo
 - Create new automated continuous build/test
- **Support for P2/Platform Robustness**

<http://www.eclipse.org/projects/project-plan.php?projectid=rt.ecf>



Deferred 3.0 Plan Items

- VNC-based Screen Sharing based upon Bundles in DSDP-Tml Project
 - https://bugs.eclipse.org/bugs/show_bug.cgi?id=239854
- Supporting N-Way Messaging in Docshare
 - <http://bugs.eclipse.org/240290>
- Supporting proxy settings for XMPP/other providers



Non-Code Aspects

- The 3.0 release will contain updated User and ISV documentation
- Community is very active
 - Mailing lists and newsgroups have steady activity
 - ecf-dev@eclipse.org
 - Blogs dedicated to Eclipse are active e.g.
 - <http://www.planeteclipse.org>
 - Wiki content is growing
 - <http://wiki.eclipse.org/ECF>
 - 'Community Created Book' Effort to Begin
 - Many non-committer contributions
 - Filetransfer API improvements: Cloudsmith and IBM
 - TwitterHub RCP Twitter Client
 - Example Remote Services and Docs



Non-Code Aspects

- Articles, examples, and tutorials
 - Webinars, Interviews, Podcasts by multiple committers
 - Example code library in ECF repo
 - Tutorials given at EclipseCon, and presentation at OSGi conferences

Standards



- OSGi RFC119
 - Service Platform Core Specification, Release 4.2
 - RFC119 closely watched and highly anticipated
 - ECF's implementation transport independent, so other providers (e.g. Riena) can easily be added for immediate support of RFC119

Architectural/Standards Issues



- RFC119 is not complete for 4.2 specification and so will undergo change. This likely means API changes for ECF's implementation.
- Good news is that ECF's Remote Service API will not change. Layered approach (i.e. RFC119 impl -> ECF RS -> RS Providers) allows isolation of RFC119 changes.



End of Life Issues

ECF project has some deprecated API (~10 methods).
Need to be consistent with other projects on how this is handled in ECF 4.0 (assuming 4.0 is in 2010).

Bugzilla – Past Year



Status

	RESOLVED	VERIFIED	CLOSED	Total
Severity				
blocker	<u>4</u>	.	<u>1</u>	<u>5</u>
critical	<u>9</u>	.	.	<u>9</u>
major	<u>30</u>	<u>1</u>	.	<u>31</u>
normal	<u>213</u>	<u>2</u>	<u>1</u>	<u>216</u>
minor	<u>11</u>	.	.	<u>11</u>
trivial	<u>4</u>	.	.	<u>4</u>
enhancement	<u>64</u>	.	<u>1</u>	<u>65</u>
Total	<u>335</u>	<u>3</u>	<u>3</u>	<u>341</u>

Bugzilla – 3.0 Release



		Status		
		NEW	ASSIGNED	Total
Severity	critical	.	<u>1</u>	<u>1</u>
	major	<u>1</u>	.	<u>1</u>
	normal	<u>4</u>	<u>6</u>	<u>10</u>
	enhancement	<u>2</u>	<u>1</u>	<u>3</u>
	Total	<u>7</u>	<u>8</u>	<u>15</u>



IP Issues

- All significant and third party contributions have been reviewed and approved by Eclipse legal.
- About files and license files are complete and correct.
- Draft IP log:
 - http://www.eclipse.org/projects/ip_log.php?projectid=rt.ecf



UI Usability

- Few UI changes in ECF 3.0
- Strings externalized to support translation into other languages
- Not aware of any non-compliance with accessibility standards in the user interface



Schedule

- Milestones every 6 weeks
 - API Frozen for Core on March 13 (M6+0), all non-core bundles on May 5 (M7+2)
 - UI Frozen on May 19 (RC1+2)
- Ramp-Down Policy:
http://wiki.eclipse.org/ECF_3.0.0/Galileo_Ramp-Down_Policy



Process

- Everything Open
 - Bugzilla
 - Bi-Monthly Conference Calls w Minutes
 - IRC
 - Mailing List
 - Book Development (!)

Community



- **ECF** team members are active in Bugzilla, newsgroups, and mailing lists
- ECF committer Jan Rellermeyer active in distributed systems research community and invited member of OSGi Enterprise Experts Group
- Blogs started by Equinox committers are active
 - <http://www.planeteclipse.org>
- Some teams are using the equinox-dev IRC channel
 - `irc://irc.freenode.net/#eclipse-ecf`
- The Equinox team participates in code camps, conference presentations, and tutorials, including
 - EclipseCon, Eclipse Summit Europe
- The ECF team interacts with other open source projects, standards bodies, researchers, and other projects on eclipse.org, including
 - Equinox, Riena, OSGi EE, Apache, Buckminster, CoFFEE, DSDP-TML, others

ECF Has Open, Participative, Diverse, Growing Community



Project Plan for ECF 4.0/Helios

- Remote Services/RFC119
- More providers: Discovery, RS (JMS, Riena), Presence (twitter), VOIP (SIP)
- ECF on Equinox Servers
- Testing Distributed Applications
- Other Plans and Priorities under Consideration