

Virgo 3.0.0 Release Review

The logo features the word "eclipse" in a white, lowercase, sans-serif font. The letters are centered over a dark, circular background that resembles a planet or a moon. A bright, glowing ring of light surrounds the circle, and several horizontal lines of varying lengths pass through the circle, creating a sense of motion or a solar eclipse effect.

eclipse

Planned Review Date: 17-24 August 2011

Communication Channel: Virgo forum

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Introduction

- § Virgo is a mature project derived from SpringSource dm Server v2. Version 3 represents the first major functional enhancement since the contribution.
- § Release contents
 - Tomcat based web server for enterprise Java applications
 - Jetty based web server for enterprise Java applications
 - Kernel – base for web servers and other server types
 - Snaps framework for modular OSGi web applications
 - Documentation
 - New version of GreenPages sample

Features

is The objective of this release is closer integration with other Eclipse RT projects.

is Major features:

- Provide Jetty based alternative to Virgo Tomcat Server
- Support snaps modular OSGi web applications framework
- Upgrade Equinox to 3.7 and OSGi 4.3
- Upgrade Tomcat to version 7 and Servlet 3.0
- Upgrade Spring framework to 3.0.5
- Upgrade Gemini Web to 2.0 and make web behaviour conform strictly to the OSGi web spec
- Replace the Equinox shell with Apache Felix Gogo, including telnet and ssh access
- Base region support on OSGi standard framework hooks via Equinox region digraph support
- Use Equinox rather than Felix OSGi service implementations
- Allow PARs to contain plans
- Support OSGi Log service
- Integrate Declarative Services support in both kernel and user region
- Separate Configuration Admin instances in kernel and user region

Non-Code Aspects

§ User documentation:

- User Guide
- Programmer Guide
- Snaps User Guide
- 2.x to 3.0 migration notes
- A Guide to the GreenPages Sample

§ I18n enabled, English resource files only

§ GreenPages sample v2.4.0 will be released with Virgo 3.0

APIs

- § The APIs in this release meet Eclipse Quality standards
- § Migration from Virgo 2.1 is straightforward and documented

Architectural Issues

- is p2 integration deferred to a future release (probably 3.5) as it is taking longer than expected to finalise

Tool Usability

- § Virgo tooling has been donated to Eclipse
 - First milestone issued
 - Work in progress to clean up the dependencies and fix various bugs

Incubation Content

- § Virgo 3.0 includes bundles from Equinox bundles project that are in incubation
 - Region digraph (moved from Virgo)
 - Console supportability (integrates Apache Felix Gogo)
- § Rationale for inclusion
 - Region digraph is stable and mature
 - New console no longer depends on OSGi Alliance standard being finalised
- § The download page will note the incubation content to avoid misleading anyone

End-of-Life

- § Web Application Bundles are now processed in strict conformance with the OSGi specification
 - Previous behaviour can be enabled by a configuration property
 - This property causes a message to be issued to warn that the property may not be supported in future releases

Bugzilla

is Fixed

Target Milestone									
Severity		3.0.0.M01	3.0.0.M02	3.0.0.M03	3.0.0.M04	3.0.0.M05	3.0.0.M06	3.0.0.RC1	Total
	critical	<u>1</u>	<u>1</u>
	major	<u>3</u>	<u>1</u>	.	<u>2</u>	.	.	<u>2</u>	<u>8</u>
	normal	<u>39</u>	<u>4</u>	<u>5</u>	<u>9</u>	<u>12</u>	<u>4</u>	<u>11</u>	<u>84</u>
	minor	<u>6</u>	<u>2</u>	<u>1</u>	<u>1</u>	.	<u>1</u>	<u>2</u>	<u>13</u>
	trivial	<u>2</u>	<u>1</u>	.	.	<u>2</u>	<u>1</u>	.	<u>6</u>
	enhancement	<u>16</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>7</u>	<u>5</u>	<u>1</u>	<u>34</u>
	Total	<u>67</u>	<u>9</u>	<u>7</u>	<u>15</u>	<u>21</u>	<u>11</u>	<u>16</u>	<u>146</u>

Bugzilla

is Not fixed

- Both major bugs relate to the tooling

Target Milestone						
Severity		---	2.4.0.RELEASE	3.0.0.RELEASE	3.5.0.RELEASE	Total
	major	<u>2</u>	.	.	.	<u>2</u>
	normal	<u>34</u>	<u>1</u>	<u>1</u>	<u>10</u>	<u>46</u>
	minor	.	.	.	<u>1</u>	<u>1</u>
	trivial	<u>1</u>	.	.	.	<u>1</u>
	enhancement	<u>89</u>	.	.	<u>11</u>	<u>100</u>
	Total	<u>126</u>	<u>1</u>	<u>1</u>	<u>22</u>	<u>150</u>

Standards

- § Virgo requires Java 6 or later
- § Virgo supports OSGi v4.3
- § The Gemini Web container provides support for Web Bundles as defined by OSGi Enterprise Spec v4.2
- § Tomcat 7 provides underlying servlet 3.0 support
- § Kernel uses OSGi standard framework hooks
- § Lazily activated bundles are started in conformance with the OSGi specification

UI Usability

§ Admin Console

- no usability issues raised by users

§ Shell

- Completely replaced by new shell based on Apache Felix Gogo

Schedule

↳ Release slipped from June 2011 to August 2011

Communities

- § Bugzilla in active use by users and contributors
- § Virgo forum and virgo-dev similarly active
- § Weekly Virgo community call
- § Blogs
- § Twitter is used for propagating news updates
- § IRC channel has seen a small number of users
- § Committers have demo'd Virgo at EclipseCon and elsewhere
- § Presentations at EclipseCon and OSGi conferences
- § Interaction with Gemini, Equinox, Jetty, and p2 projects

IP Log

- § The Eclipse IP policies and procedures have been followed
- § Frozen IP log:
 - <https://bugs.eclipse.org/bugs/attachment.cgi?id=200883>

Credits and Kudos

is New committers:

- Hristo Illiev (SAP AG)
- Borislav Kapukaranov (SAP AG)
- Violeta Georgieva (SAP AG)
- Dmitry Sklyut (Chariot Solutions)