

Virgo 3.5.0 Release Review



eclipse

Planned Review Date: ??-?? June 2012

Communication Channel: Virgo forum

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Introduction

- Virgo Version 3.5 is the second major functional enhancement release since the contribution.
- Release contents
 - Tomcat based web servers for enterprise Java applications
 - Jetty based web server for enterprise Java applications
 - Kernel – base for web servers and other server types
 - Nano – small/fast kernel subset
 - Snaps framework for modular OSGi web applications
 - Documentation

Features

- The objectives of this release are integration with p2 and IDE tooling improvements.
- Major features:
 - p2 initial provisioning
 - p2 provisioning of kernel region at runtime
 - New Nano offerings - the smallest one - Nano - serves as an enhanced OSGi container with various serviceability features and hot-deployment for your everyday bundles. The other flavor - Virgo Nano Full - is a more complete, yet very small web-server with embedded Tomcat, p2 provisioning and various serviceability features. Virgo Nano Full comes bundled with Gemini Web and is therefore capable of handling web applications (WARs and Web Application Bundles). Each Nano distribution runs in a single region.
 - Launch Virgo using Equinox launcher and align folder structure with Eclipse
 - Major IDE tooling rework and alignment with Libra tooling
 - Use Gemini Blueprint instead of Spring DM 1.2.1
 - Allow already installed artefacts to be referenced from plans which therefore form a DAG rather than a tree
 - Align shell authentication with that of web admin console
 - Various dependency upgrades and diagnostic improvements

Non-Code Aspects

- User documentation:
 - User Guide
 - Programmer Guide
 - Snaps User Guide
 - Tooling Guide
 - 3.0.x to 3.5 migration notes
 - A Guide to the GreenPages Sample
- I18n enabled, English resource files only

APIs

- The APIs in this release meet Eclipse Quality standards
- Migration from Virgo 3.0 is straightforward and documented

Architectural Issues

- None

Tool Usability

- Major rework of Virgo tooling for its initial release
 - Removal of Spring IDE dependency
 - Alignment with Libra
 - Many functional and usability improvements
 - Many bug fixes

Incubation Content

- Virgo 3.5 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

- No issues

Bugzilla

- Fixed

Target Milestone

	3.5.0.M01	3.5.0.M02	3.5.0.M03	3.5.0.M04	3.5.0.M05	3.5.0.RELEASE	Total
Severity major	.	.	.	.	.	<u>1</u>	<u>1</u>
normal	<u>6</u>	<u>11</u>	<u>6</u>	<u>11</u>	<u>2</u>	<u>28</u>	<u>64</u>
minor	<u>2</u>	.	.	<u>1</u>	.	<u>2</u>	<u>5</u>
trivial	<u>2</u>	.	<u>1</u>	.	.	.	<u>3</u>
enhancement	<u>22</u>	<u>8</u>	<u>10</u>	<u>7</u>	<u>1</u>	<u>17</u>	<u>65</u>
Total	<u>32</u>	<u>19</u>	<u>17</u>	<u>19</u>	<u>3</u>	<u>48</u>	<u>138</u>

Bugzilla

- Not fixed

		Target Milestone						
		---	3.5.0.M02	3.5.0.M05	3.5.0.RELEASE	3.5.1.RELEASE	4.0.0.RELEASE	Total
Severity	major	<u>6</u>	.	.	.	.	.	<u>6</u>
	normal	<u>60</u>	.	<u>1</u>	<u>17</u>	<u>1</u>	.	<u>79</u>
	minor	<u>2</u>	.	.	<u>1</u>	.	<u>1</u>	<u>4</u>
	trivial	<u>1</u>	.	.	.	.	.	<u>1</u>
	enhancement	<u>130</u>	<u>4</u>	.	<u>17</u>	.	<u>20</u>	<u>171</u>
	Total	<u>199</u>	<u>4</u>	<u>1</u>	<u>35</u>	<u>1</u>	<u>21</u>	<u>261</u>

Standards

- Virgo requires Sun Java 6
- Virgo supports OSGi v4.3
- The Gemini Web container provides support for Web Bundles as defined by OSGi Enterprise Spec v4.2
- Tomcat 7 and Jetty 8 provides underlying servlet 3.0 support
- Kernel uses OSGi standard framework hooks
- Virgo supports the OSGi Blueprint service, OSGi Declarative Services, and OSGi JMX Management

UI Usability

- Admin Console
 - no usability issues raised by users
- Shell
 - no usability issues raised by users

Schedule

- Virgo 3.5 planned to participate in the Eclipse Indigo release train

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
- Submitted IP Log for freezing and approval on 22 May 2012:
 - http://www.eclipse.org/projects/ip_log.php?projectid=rt.virgo
 - Unapproved Spring 3.1 CQs to be removed from frozen IP log as they are not needed for 3.5.0 release

Credits and Kudos

- New committers:
 - Florian Waibel (EclipseSource)
 - Lazar Kirchev (SAP AG)
 - Miles Parker (Tasktop)