### Virgo Graduation & 2.1.0 Release Review



Planned Review Date: 20 October 2010 Communication Channel: Virgo forum Glyn Normington (Project Lead)

### Introduction

- Virgo is a mature project derived from SpringSource dm Server v2
- Release contents
  - Web server for enterprise Java applications
  - Kernel base for web server and other server types
  - Samples
  - Documentation
- Virgo is an active project, ready for graduation
  - Committers: 3 (SpringSource/VMware)
  - Non-committer code contributors: 5

### **Features**

- The objective of this release is migration of community and applications from SpringSource dm Server 2.0.x.
- Virgo specific features:
  - 5x startup performance
  - Tomcat & Logback upgrades
  - Equinox console integration

# Features (continued)

- Features inherited from SpringSource dm Server:
  - admin console for management and fault diagnosis
  - plans define the artifacts that comprise an application
  - automatic provisioning from local and remote repositories
  - web container for WAR files and Web Application Bundles
    - Built on Gemini Web
  - user region to isolate the kernel from applications
  - Spring 3 Virgo packages Spring 3.0 final, but can easily be configured to use a different version of Spring
  - hot deployment
  - logging via embedded LogBack

# Non-Code Aspects

- User documentation:
  - User Guide
  - Programmer Guide
- Tutorial:
  - Creating an Application with Virgo
- Samples:
  - GreenPages, Formtags, Config props, & OSGi samples
- Webinar
- I18n enabled, English resource files only

### **APIs**

- The APIs in this release meet Eclipse Quality standards
- Migration from dm Server 2.0.x is straightforward and documented
- Some internal APIs have been promoted to external to improve extensibility

### Architectural Issues

- Kernel/app isolation allows app dependencies to be upgraded independently of kernel dependencies, e.g. Spring
- Equinox was recently upgraded to 3.6
- Web support based on Tomcat
  - Tomcat provided via Gemini Web
  - Jetty support high priority for post 2.1.0
- Virgo uses 3 OSGi service impls from Apache Felix
  - Migration to Equinox equivalents post 2.1.0
- p2 support under investigation

# Tool Usability

- SpringSource Tool Suite supports Virgo
  - Runs a Virgo server instance
  - Fast deploy/debug/update cycle
- We plan to donate this tooling to Eclipse

### End-of-Life

- The following dm Server features did not make it through the Eclipse IP process:
  - Jline based kernel shell replaced by Equinox console command
  - Tanuki service wrapper dropped

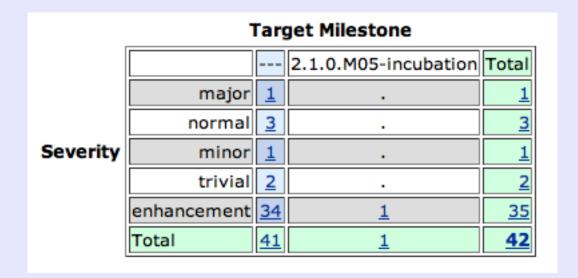
## Bugzilla

- Fixed
  - Excludes CQ tracking bugs

	Target Milestone						
			2.1.0.M02-incubation	2.1.0.M03-incubation	2.1.0.M04-incubation	2.1.0.M05-incubation	Total
	critical	<u>3</u>					<u>3</u>
	major	<u>1</u>					<u>1</u>
	normal	<u>31</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>10</u>	<u>46</u>
	minor	<u>3</u>				<u>3</u>	<u>6</u>
	trivial	2				<u>2</u>	4
	enhancement	<u>5</u>			<u>4</u>	<u>2</u>	11
	Total	<u>45</u>	<u>1</u>	<u>1</u>	<u>7</u>	<u>17</u>	<u>71</u>

# Bugzilla

- Not fixed, all P3
- Major bug is obscure and relates to deleting symlinks
  - Following up with raiser



### **Standards**

- Virgo requires Java 6 or later
- The Gemini Web container provides support for Web Bundles as defined by OSGi Enterprise Spec v4.2
- Tomcat 6.0.x provides underlying servlet 2.5 support
- Kernel uses prototype composite bundle (OSGi RFC 138) support in Equinox
  - Project lead engaged in OSGi process to standardise this

# **UI Usability**

- Admin Console
  - developed over two releases of dm Server
  - no usability issues raised by users
- Equinox shell command
  - Replaces dm Server kernel shell

### Schedule

- First release slipped from 1Q10 to 4Q10
- First milestone was a stable target for migration testing
  - This shipped in 2Q10

### **Communities**

- Bugzilla in active use by users and contributors
- Virgo forum and virgo-dev similarly active
- Weekly Virgo community call although attendance is low (2-4 people)
- Blogs
  - SpringSource blog covers Virgo milestones
  - Other blogs have complimented Virgo code quality
- Twitter is used for propagating news updates
- Committers have demo'd Virgo at Sofia and Walldorf Eclipse DemoCamps
- Webinar in August
- Presentations at EclipseCon and OSGi conferences
- Interaction with Gemini, Equinox, Jetty, p2, Logback, & Spring projects

# IP Log

- The Eclipse IP policies and procedures have been followed
- IP Log:
  - http://www.eclipse.org/projects/ip\_log.php? projectid=rt.virgo
  - Request to freeze the IP log sent to IP team on 27 September 2010
  - Pending CQs to be removed from frozen IP log as they are not needed for 2.1.0 release

### Graduation

- Virgo must exit incubation to release 2.1.0
- The dm Server project came with a stable codebase, a diverse set of users, and an open development process
- The codebase is stable and demonstrable
  - See webinar
- The community is diverse and active
- The project is open and transparent
- The team is adhering to the Eclipse development process and IP policy and relates well to other RT projects. The project lead is an active member of the RT PMC

### Credits and Kudos

- Non-committer code contributors:
  - Nikolai Tankov (SAP AG)
  - Hristo Illiev (SAP AG)
  - Borislav Kapukaranov (SAP AG)
  - Dmitry Sklyut (Chariot Solutions)
  - Olivier Girardot
  - Florian Waibel (EclipseSource)