

# Gemini Naming Graduation and 1.0.0 Release Review

Gemini Naming is a member of the Gemini  
and Eclipse RT Projects

February, 2012

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# Review Specifics

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- Review Date:
  - Feb, 2012 ← ???
- Communication Channel:
  - Gemini Dev list (gemini-dev@eclipse.org)
- Project Home:
  - <http://www.eclipse.org/gemini/naming>

# Enterprise Modules Introduction

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- Parent project (nicknamed “Gemini”)
- Subproject of Eclipse Runtime Project
- Umbrella of subprojects, each demonstrating runtime modularity of a standard enterprise technology
- Subprojects each derived from an OSGi 4.2 standard
- All projects are dual-licensed under EPL and Apache v2

# Introduction to Gemini Naming

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- Sources derived from RI of OSGi 4.2 JNDI specification
- A JNDI provider that exports JNDI entries as OSGi services and OSGi services as JNDI entries
- Particularly convenient for folks wanting to migrate from JNDI to OSGi services
- Reusable layer for EE containers wanting to use OSGi as an implementation strategy

# IP Cleanliness

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- Source contributions from Apache v2 licensed OSGi RI
  - Originally written and contributed by project lead
- Dependencies:
  - Does not ship with any dependent JARs
  - Relies on OSGi Enterprise 4.2 (osgi.enterprise.jar) for OSGi JNDI specification
    - Interfaces, service property constants
  - A few test framework dependencies (see next slide)

# IP Cleanliness

## ■ IP Log fully approved by EMO

### Licenses

Send email to the Eclipse Legal team to request changes to the licenses.

- Apache Software License, 2.0
- Eclipse Public License v1.0

### Third-Party Code

Corrections to the third-party code tables are made by adding or removing keywords to the CQs themselves. See the [how to instructions](#) for more information about which keywords correspond to which tables. Send email to the Eclipse Legal team to request changes to the keywords.

### Pre-Req Dependencies

CQ	Third-Party Code	License	Use
3961	OSGi Core API Version: 4.2 (PB CQ3865)	Apache License, 2.0	unmodified binary
3962	OSGi Enterprise Specification APIs Version: 4.2 (PB CQ3864)	Apache License, 2.0	unmodified binary
3963	OSGi Compendium APIs Version: v 4.2 (PB CQ3866)	Apache License, 2.0	unmodified binary
4038	Junit Version: 3.8.1 (ATO CQ296) (using Orbit CQ2207)	Common Public License 1.0	
4039	ASM 2.2.3 (PB CQ4004)	New BSD license	unmodified binary
4076	OSGi Service Platform Enterprise Specification Version: Release 4 Version 4.2 (PB CQ4046)	OSGi Specification License, Version 1.0	unmodified binary

### Exempt Pre-Req and Works With Dependencies

CQ	Third-Party Code	License	Type
4040	easymock Version: 2.5.2	MIT license	works with
4041	Spring OSGi Test Version: 1.2.1	Apache License, 2.0	works with
4042	spring-osgi-extender Version: 1.2.1	Apache License, 2.0	works with
4043	spring-osgi-annotation Version: 1.2.1	Apache License, 2.0	works with
4044	org.apache.commons.logging Version: 1.1.1	Apache License, 2.0	works with
4077	log4j Version: 1.2.15 (PB CQ3815)	Apache License, 2.0	works with

# Features

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- Implements standard mechanism for publishing/locating JNDI providers
- JNDI provider service availability for container or 3<sup>rd</sup> party SPI uses
- Supports existing traditional JNDI client model
- Ability to access OSGi services using OSGi-based URL lookups

# Non-Code Aspects

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- Readme file and relevant and applicable licensing files as required for EPL and Apache v2
- “Getting Started” document for new user quick uptake
- Sample application (source plus execution instructions)
- User documentation on Project wiki (English)

# APIs

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- All APIs are defined within existing specifications
  - OSGi 4.2 JNDI specification
  - Java Naming and Directory Interface specification
- APIs that have been implemented match the specification definitions
- No additional APIs are planned

# Architectural Issues

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- Cohesive code design with loose coupling
- Includes custom JNDI provider
  - Integration with OSGi through defined standards
- Works with any OSGi framework compliant with the 4.2 Enterprise Specification
- Easy to extend or plug in additional providers

# Standards

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- Assumes presence of compliant OSGi 4.2 Core framework layer
- Implements and passes CT for JNDI chapter in OSGi 4.2 Enterprise specification
- Run and tested with versions of JNDI back to Java SE 5

# Tooling

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- Gemini Naming is a runtime project and no tooling is included in the project
- Users are expected to make use of existing bundle development tooling
  - PDE, etc.
- Nature of the project does not lend itself to needing tooling
  - JNDI is a simple directory service

# Scheduling

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- March 9, 2012 target for 1.0.0
- Will have been 2 intermediate milestone downloads before release
- One RC planned
- Initially planned to graduate sooner, but project lead left
- Project graduation to occur concurrently

# Bugs

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- No significant outstanding bugs
- ????? --- bugs fixed
- ??? --- ?? bugs not fixed (P3)
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# Community - Committers

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- All committers have followed the Eclipse development process
- Gemini Naming presentations and demos at 2 conferences
- New committers are active in responding to user questions
- Bi-weekly committer conference call
- Public mailing lists used for day-to-day communication

# Community – Adopters and Users

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- Incubation currently a hindrance to growing the number of adopters and users
- Virgo project wants to adopt
- Still relatively small user community, slow rate of growth is expected
- Forum posts by users
- Number of bugs entered by users is not high
  - Biggest complaint is the lack of a release

# Summary

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## Gemini Naming:

- stable high quality software offering
- open and transparent development process
- contributing member of Eclipse ecosystem
- small community
- strategic part of the Gemini family
- graduation and release will allow it to reach the next level