



COSMOS 1.0 Release Review

Review date: Wed Oct 29, 2008

Communication Channel:

<http://www.eclipse.org/newsportal/thread.php?group=eclipse.technology.cosmos>

Eclipse Technology PMC

COSMOS 1.0 Features



- Data Collection
 - Framework for implementing CMDBf query and registration services
 - Management Data Repositories (MDRs) accept vanilla web service requests using Axis2
 - Support provided for logging in MDRs
- Data Reporting/Visualization
 - Extension points to create complementary visualizations in the form of Web 2.0 gadgets and BIRT reports
 - Ability to register/deregister a MDR with a federating Configuration Managed Database (CMDBf) through COSMOS UI
 - Ability to query a MDR from the COSMOS UI using query builder driven by CMDBf metadata
 - Ability to visualize CMDBf queries
- Resource Modeling (“in research”, not part of the 1.0 release)
 - SML Tooling – SML and SML-IF document validation, SML-IF editing, Import/Export of SML-IF documents
 - Example data center described in SML format
- Management Enablement
 - SDD Tooling - BTG generator, validator, STD programmatic interface (SDD tooling is “in research” and is not part of the 1.0 release)
 - Eclipse-integrated toolkit for creating data managers and MDRs

Non-code Aspects



- User Documentation
 - User Guide
 - Installation Guide

- Developer Documentation
 - Developer Guide

- Localization/Internationalization
 - The code is internationalized and ready for translation but not yet translated.

APIs



- All APIs in COSMOS 1.0 are provisional
- COSMOS includes a light weight framework to construct web-based UI consoles along with a set of provisional out-of-the-box CMDBf widget controls
- COSMOS provides a CMDBf framework and an object model that transforms the CMDBf request and response between XML and Java objects

Architectural Issues



- There are future scalability changes that have been proposed. The current framework has not been optimized for scalability.
- The server cannot report the language and nationality of the client. The team has requested changes in the CMDBf specification.
- COSMOS supports mapping the CMDBf syntax onto some SQL operations, but not completely. There is no generalized transformation from one to the other.

Tool Usability



- COSMOS targets developers who want to merge their existing data store into the CMDBf ecosystem.
 - Tools to build MDRs from scratch
 - Eclipse-integrated toolkit for creating data managers and MDRs
 - Framework to plug in your existing data store into the CMDBf ecosystem with minimal effort
 - Tools to test MDRs for use in a CMDBf architecture
- COSMOS enables developers who have merged their data store into the CMDBf ecosystem to share information:
 - View and query MDR content via a web based UI
 - Register a MDR with the COSMOS framework or a federating CMDB using the COSMOS UI
 - Present reports to visualize event and statistical data

End-of-Life



- Since this is the first release of COSMOS, there is no pre-existing API and no need for migration plans. Therefore, no end-of-life issues exist.

Bugzilla – Defect Statistics as of 10/10/2008



		Status					
		NEW	ASSIGNED	RESOLVED	VERIFIED	CLOSED	Total
Severity	blocker	.	.	<u>10</u>	<u>7</u>	<u>46</u>	<u>63</u>
	critical	<u>1</u>	.	<u>10</u>	<u>3</u>	<u>42</u>	<u>56</u>
	major	<u>1</u>	.	<u>27</u>	<u>5</u>	<u>63</u>	<u>96</u>
	normal	<u>18</u>	<u>7</u>	<u>136</u>	<u>30</u>	<u>327</u>	<u>518</u>
	minor	.	.	<u>1</u>	.	<u>6</u>	<u>7</u>
	enhancement	<u>11</u>	<u>4</u>	<u>62</u>	<u>2</u>	<u>126</u>	<u>205</u>
	Total	<u>31</u>	<u>11</u>	<u>246</u>	<u>47</u>	<u>610</u>	<u>945</u>

- Release Exit Criteria:
 - No open P1/blocker defects, 100% automated test pass

Bugzilla – Defect Statistics as of 10/10/2008



Status

	NEW	ASSIGNED	RESOLVED	VERIFIED	CLOSED	Total	
Priority	P1	<u>2</u>	.	<u>55</u>	<u>3</u>	<u>129</u>	<u>189</u>
P2	<u>6</u>	<u>2</u>	<u>31</u>	<u>6</u>	<u>77</u>	<u>122</u>	
P3	<u>23</u>	<u>9</u>	<u>159</u>	<u>38</u>	<u>404</u>	<u>633</u>	
P4	.	.	<u>1</u>	.	.	<u>1</u>	
Total	<u>31</u>	<u>11</u>	<u>246</u>	<u>47</u>	<u>610</u>	<u>945</u>	

- Release Exit Criteria:
 - No open P1/blocker defects, 100% automated test pass
 - The two remaining open P1 will be fixed by the time that the release review is held



Supported Standards

- CMDBf 1.0b
 - The problem that CMDBf solves
 - COSMOS deliberately chose to implement some of the standard and leave the rest to existing commercial implementations. The part omitted was the federated CMDB.

UI Usability



- Accessibility
 - No review for this release, but following accessibility guidelines
 - <http://www.eclipse.org/articles/Article-Accessibility/index.html>

- Follow the User Interface Guidelines
 - Focus on consistent visual design, UI elements, icons
 - http://wiki.eclipse.org/index.php/User_Interface_Guidelines

- No UI guidelines for the Web 2.0 portion.

Schedule



Milestone	Date
M1	June 29, 2007
M2	March 7, 2008
M3	June 27, 2008
M4 (1.0 GA)	November 14, 2008

All milestones were released on time.

Process: Committers and Activities



- Over 10 contributors plus 17 active committers from 6 companies in the history of COSMOS
 - Committer elections and removals have followed charter principles
 - Continuing to recruit additional contributors (organizations and individuals)
- Open communications via COSMOS dev mailing list
 - Not much newsgroup activity – looking to improve
 - Plans available on COSMOS wiki
- Meetings, meetings, meetings – numerous, open, and documented
 - Weekly Community meetings, weekly subproject meetings, weekly architecture meetings, monthly summits, ad hoc as required
 - Community Call minutes available on website: http://wiki.eclipse.org/Minutes_of_Community_Calls
- Open and inclusive release planning and tracking processes
 - Bugzilla used to request and track all defects and enhancements
 - Additional reports (defect summaries, test stats, etc.) used to enhance planning / tracking
- All contributions made directly to Eclipse CVS
 - Nightly, weekly integration builds, and release builds available to the community
- Coordination/cooperation with other Eclipse projects
 - TPTP, Aperi, Web tools
 - Future interaction with Higgins and Tigerstripe has been discussed
- Leveraging other open source technologies in the project

Process: Community



- Download statistics as of 9/23/2008
 - Milestone 1: 251 downloads
 - Milestone 2: 353 downloads
 - Milestone 3: 461 downloads
 - Because this is COSMOS' first release, there are no download statistics for any release.

- Website content
 - Download links, milestone announcements, mailing lists, news group, presentation links
 - Tutorials, documentation

- Evangelism and outreach in the market & broader community
 - Presence at EclipseCon
 - Being used by CA and IBM
 - Media presence (the examples below are a representation of articles released lately)
 - http://www.informationweek.com/news/software/database_apps/showArticle.jhtml?articleID=210600358
 - <http://biz.yahoo.com/bw/080908/20080908005767.html?.v=1>
 - <http://www.businesswire.com/news/google/20080908005767/en>

Intellectual Property



- Reuse of open source that is under various licenses: Apache, W3C, BSD, and others.
- All contributions came from employees of Eclipse Strategic Members under the guidance of the COSMOS Project Leads and were written for COSMOS, or we requested IPZillas for them and they are listed in the IP log
- The index of all COSMOS IP Logs is <http://www.eclipse.org/cosmos/legal>
 - COSMOS 1.0 manual IP log:
http://www.eclipse.org/cosmos/legal/iplog_COSMOS1.0.php
 - COSMOS 1.0 automated IP log:
http://www.eclipse.org/projects/ip_log.php?projectid=technology.cosmos

Forward Project Plan



- COSMOS 1.1 scheduled for June 2009
 - Major themes: Solution Deployment Descriptor (SDD) Tooling & Runtime, SML
 - Potential themes: scalability improvements in CMDBf framework
 - http://wiki.eclipse.org/COSMOS_2.0_Plans