



# *COSMOS 1.1 Release Review*

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# COSMOS 1.1 Features



- Data Collection
  - Framework for implementing CMDBf query and registration services
  - Web service request interfaces and examples provided for building management data repositories (MDRs) for CMDBf support
- Data Reporting/Visualization
  - Presentation of reports to visualize systems management data
  - Web-based viewer composed of Web 2.0 gadgets to thoroughly query and examine data from an MDR, using query builder driven by CMDBf metadata
  - Extension points to create complementary visualizations in the form of Web 2.0 gadgets and BIRT reports
- Resource Modeling
  - Support for SML and SML-IF standards, version 1.1, including SML and SML-IF document validation, SML-IF editing, Import/Export of SML-IF documents
  - A reconciliation taxonomy for mapping/describing federated data



# *COSMOS 1.1 Features*

- Management Enablement
  - Support for SDD 1.0 standard (conformance level 1)
  - SDD tools
    - RPM and SDD readers
    - Build time generator to create SDDs
    - Aggregator to create composite SDDs
  - SDD runtime
    - Orchestrator
    - Operation handlers
    - Resource handlers
    - Command line interface to gather user parameters
  - Eclipse-integrated toolkit for creating data managers and MDRs



# *Non-code Aspects*

- User Documentation
  - Web-based User Guide
  - Web-based Installation Guide
  - Integrated Help-in-Context
  - Demo
- Developer Documentation
  - Web-based Developer Guide
- Localization/Internationalization
  - No widespread adoption by non-English countries; translation will be examined for future release although the code will be externalized



# *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.
- The work in the SDD runtime needs to be reconciled and aligned with P2.

# 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

# Tool Usability



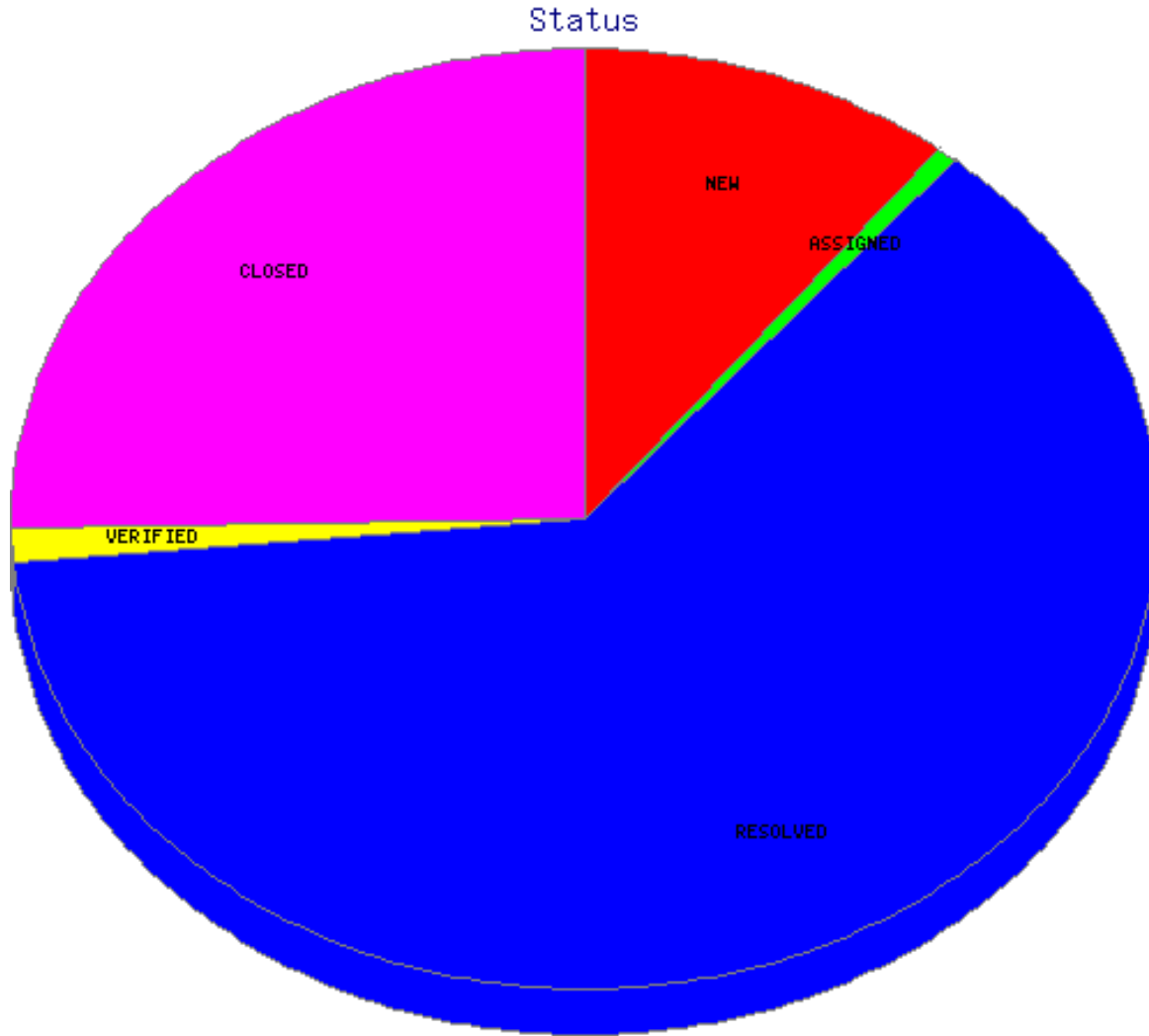
- COSMOS targets deployment architects responsible for deployment and maintenance of software assets.
- Tooling allows deployment architects to create SDDs from scratch or through generating SDDs from existing software assets such as RPM packages.
- SDD runtime allows for processing of instructions defined in SDDs.
  - Consists of a core orchestrator bundle and additional bundles for gathering user input, resource resolution and operation execution.

# *End-of-Life*



- Version 1.1 will be supported until September 2010, at which time adopters will be asked to move to a later version of COSMOS







## *Supported Standards*

- SML 1.1
- CMDBf 1.0b
- SDD 1.0

# 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](http://wiki.eclipse.org/index.php/User_Interface_Guidelines)

# Schedule



Milestone		Duration	Start Date	End Date	Description
<b>Iteration 1</b>		<b>8 weeks</b>	<b>Nov-17-2008</b>	<b>Jan-09-2009</b>	<b>Enhancements</b>
	i1 Development	5 weeks	Nov-17-2008	Dec-17-2008	Development & bug fixes
	i1 Testing	3 weeks	Dec-22-2008	Jan-09-2009	Validation Testing
<b>Iteration 2</b>		<b>6 weeks</b>	<b>Jan-12-2009</b>	<b>Feb-20-2009</b>	<b>Enhancements</b>
	i2 Development	4 weeks	Jan-12-2009	Feb-04-2009	Development & bug fixes
	i2 Testing	2 weeks	Feb-09-2009	Feb-20-2009	Validation Testing
<b>Iteration 3</b>		<b>8 weeks</b>	<b>Feb-23-2009</b>	<b>Apr-03-2009</b>	<b>Stabilize</b>
	i3 Development	4 weeks	Feb-23-2009	Mar-18-2009	Development & bug fixes
	i3 shutdown phase	2 weeks	Mar-19-2009	Apr-01-2009	Approved changes only
	i3 Testing	2 weeks	Apr-06-2009	Apr-17-2009	Validation Testing
<b>Milestone driver M1</b>		<b>1 day</b>	<b>Apr-17-2009</b>	<b>Apr-17-2009</b>	<b>Available for POCs</b>
<b>Iteration 4</b>		<b>4 weeks</b>	<b>Apr-20-2009</b>	<b>May-15-2009</b>	<b>Enhancements</b>
	i4 Development	2 weeks	Apr-20-2009	Apr-29-2009	Development & bug fixes
	i4 Testing	2 weeks	May-04-2009	May-15-2009	Validation Testing
<b>Iteration 5</b>		<b>6 weeks</b>	<b>May-18-2009</b>	<b>June-26-2009</b>	<b>Enhancements</b>
	i5 Development	4 weeks	May-18-2009	June-10-2009	Development & bug fixes
	i5 Testing	2 weeks	June-15-2009	June-26-2009	Validation Testing
<b>Iteration 6</b>		<b>6 weeks</b>	<b>June-29-2009</b>	<b>August-7-2009</b>	<b>Enhancements</b>
	i6 Development	4 weeks	June-29-2009	July-24-2009	Development & bug fixes
	i6 Testing	2 weeks	July-27-2009	August-7-2009	Validation Testing
<b>Iteration 7</b>		<b>6 weeks</b>	<b>August-10-2009</b>	<b>September-18-2009</b>	<b>Stabilize</b>
	i7 Development	4 weeks	August-10-2009	September-4-2009	Development & bug fixes
	i7 Testing	2 weeks	September-7-2009	September-18-2009	Validation Testing
<b>COSMOS 1.1 availability</b>		<b>1 day</b>	<b>September-25-2009</b>	<b>September-25-2009</b>	<b>GA Release</b>

Please see [http://wiki.eclipse.org/Cosmos\\_Release\\_Plan](http://wiki.eclipse.org/Cosmos_Release_Plan)

# Process



- Open, transparent, permeable, and inclusive
  - All discussions in Bugzilla, mailing list, newsgroup, and open developer conference calls
  - Bugs resolved via committer work or patches from contributors
  - Increased download activity for milestones

# Process: Committers and Activities



- 9 active committers from 3 companies
  - 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:
    - i7: [http://wiki.eclipse.org/COSMOS\\_1.1\\_Iteration7\\_Features](http://wiki.eclipse.org/COSMOS_1.1_Iteration7_Features)
- Meetings, meeting, meetings – numerous, open, and documented
  - Weekly Community and Architecture meetings
  - Architecture call minutes available on website: [http://wiki.eclipse.org/COSMOS\\_Architecture\\_Meetings](http://wiki.eclipse.org/COSMOS_Architecture_Meetings)
- 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
  - Equinox
- Leveraging other open source technologies in the project

# Process: Community



- Moderate download activity for milestones and releases
  
- Website content
  - Download links, New & Noteworthy, mailing lists, presentation DB
  - Tutorials, documentation, presentation summary,
  - “people pages”
  
- Evangelism and outreach in the market & broader community
  - Multiple commercial implementations
  - Planned attendance at EclipseCon 2010
  - Engagement of other vendors and community customers
  - [COSMOS blog](#)
  - [COSMOS newsgroup](#)

# *Intellectual Property*



- IP log for COSMOS

- [http://www.eclipse.org/projects/ip\\_log.php?projectid=technology.cosmos](http://www.eclipse.org/projects/ip_log.php?projectid=technology.cosmos)