

Software Quality Assurance (SQA) Report 22-26 Aug 2016

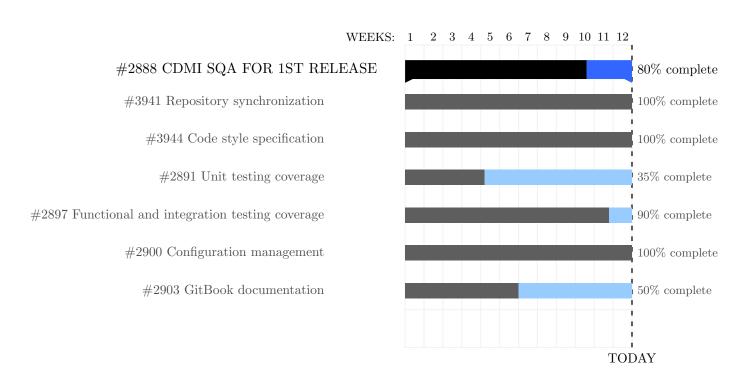
CDMI (INDIGO-DataCloud CDMI Server)



GitHub repository
Code style adherence
Code coverage
Functional/integration testing
GitBook documentation
Automated deployment

COMPLETE
35%
NOT COMPLETE
COMPLETE
COMPLETE

Part I
Task Progress for the 1st Release



1 Repository synchronization

 $Products\ contributing\ to\ INDIGO-DataCloud\ project\ must\ have\ their\ code\ avaiable\ under\ GitHub's\ indigo-dc\ organization.$

Repository exists under indigo-dc GitHub organization:

• https://github.com/indigo-dc/CDMI

2 Code Style

Products contributing to INDIGO-DataCloud project are expected to be adhered to a community or de-facto standard code style definition. Exceptions can be made to the selected standard. Custom style guides are accepted but nonetheless not recommended.



2.1 Build status

Last build status on Jenkins CI qos-codestyle.

3 Unit Testing

Code coverage will be tracked for the INDIGO-DataCloud related products and must not decrease during the project's duration. Recommended threshold is 70%.

4 Functional/Integration testing

Functional testing must cover at least the basic functionalities that the product was requested to fulfill within the INDIGO-DataCloud project scope. Integration testing must cover the interactions with other components. Both types of testing will be automated whenever feasible by integrating them in the project's continuous integration service.

No functional or integration testing provided.

4.1 Observations

• Missing list of functionalities being tested. Will provide in time.

5 GitBook documentation

Product-related documentation must be uploaded to GitBook's indigo-dc central repository. Types of documentation includes a) Developer b) Deployment and Administration c) Command-line Interface (CLI) and Application Program Interface (API) d) User Documentation. All these types may not be applied for every product. Those products that offer functionalities out of the scope of INDIGO-DataCloud project needs may not provide all the spectrum, but links to the official documentation.

Documentation available under indigo-dc GitBook organization:

https://indigo-dc.gitbooks.io/cdmi-qos/content/

5.1 Types of documentation currently provided

Readme	Deployment documentation	Administration documentation	User documentation
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5.2 Observations

- Points to improve in the documentation:
 - Deployment guide
 - * Installation using packages
 - * Make use of INDIGO repository and apt-get/yum commands instead
 - * Deployment using Docker
 - · Link does not point to indigodatacloud CDMI-QoS
 - * Other suggestions:
 - · Configuration does not cover specific guidelines for the storage backends supported (dCache, Ceph, GPFS, ..)
 - User guide
 - * API Walkthrough is not complete
 - Developer guide
 - * Not complete, not clear how to contribute

6 Configuration Management

Those products released by INDIGO-DataCloud project that need to be deployed by the end user must rely on a maintained open-source configuration management tool to provide an automated means to install and configure the product. The recommended tool is Ansible.

Tool ansible Deployment coverage installation

Manifest link https://github.com/indigo-dc/ansible-role-cdmi-master

Product does not currently have an automated deployment at INDIGO-DataCloud's Jenkins CI.

Part II

How to read this document

1 Summary (front) page

Both the overall product's SQA adherence and per-task status codes are explained below:

COMPLETE

Task has been successfully completed and fulfills the project's SQA requirements, listed in Deliverable D3.1 and Extensions to Software Quality Assurance documents.

NOT COMPLETE

Task has not been completed, yet some missing required bits have not been provided.

IN PROGRESS

Task has not been completed, but can proceed as it is.

WP3 PENDING

Task has some pending work from WP3 side, meaning that the product team already submitted the required data but it has not been yet consumed by WP3.

2 Task Progress

2.1 Code style

Code style definition

Name and link of the standard to which the product is adhered.

Community/de-facto standard

Whether the adopted standard is community-wide accepted.

Exceptions

Number of exceptions from the standard definition. Number of rules defined in the adopted standard.

Richness

Additionally (whenever available) the number of errors, number of warnings documented in the standard will be

displayed as well as the link to the latest definition.

2.2 Unit testing

This section will display the a) trend graph with the evolution of the code coverage over time and b) the Cobertura report, with the coverage results of different methods. Both are taken from the project's Jenkins continuous integration service.

Note: resultant coverage value is the lowest of the ones for the different methods: packages, files, classes, lines, conditionals.

2.3 Functional/Integration testing

2.4 GitBook documentation

Whenever the documentation of the product is available at the project's GitBook repository, both the a) link to the documentation index and b) type of documentation provided will be displayed in the report.

2.5 Configuration Management

Whenever the product has an recipe to be deployed automatically the following information will be available:

Tool Configuration management tool used.

Manifest link URL pointing to the manifest/s.

Deployment level Whether installation, configuration or both.

Current build status for the project's supported OS

distributions.