

INDIGO-DataCloud Software Quality Assurance (SQA)

Report Apr-Jun 2016

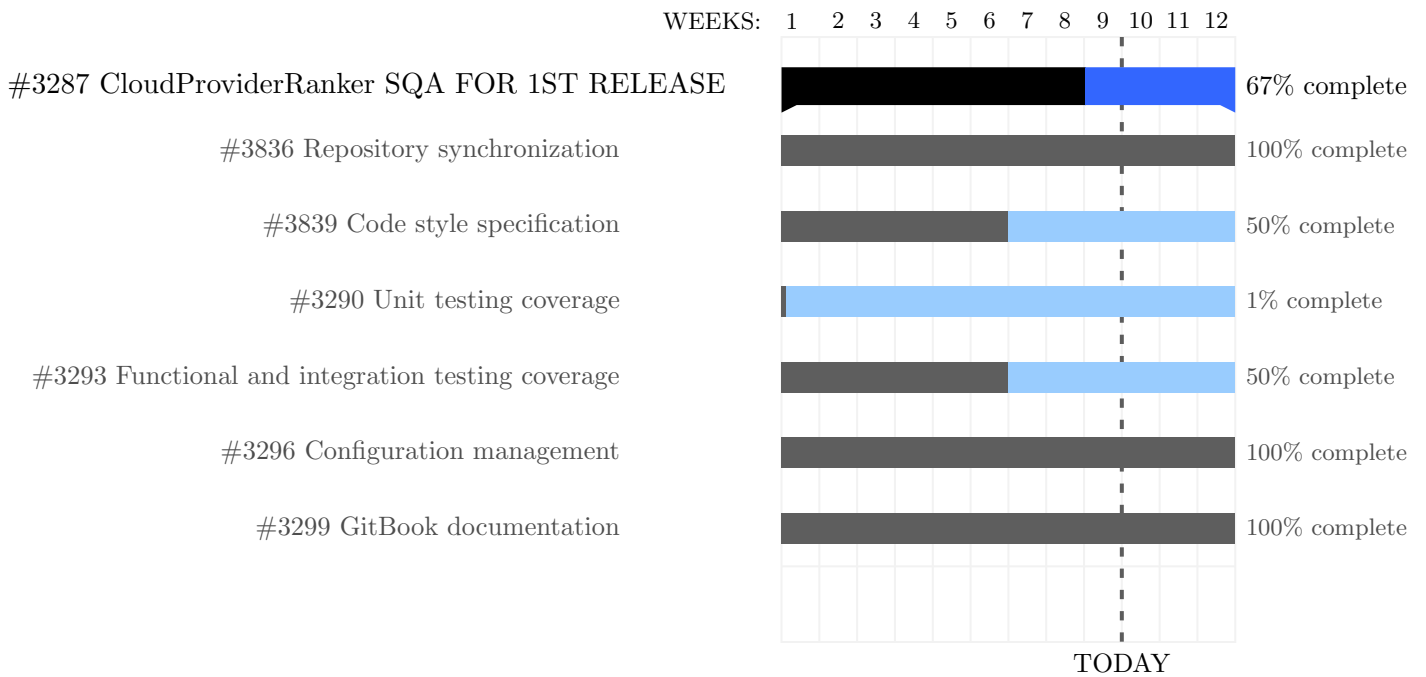
CloudProviderRanker

SQA Progress Status **NOT COMPLETE (67% done)**

GitHub repository	COMPLETE
Code style adherence	COMPLETE
Code coverage	1%
Functional/integration testing	IN PROGRESS - WP3
GitBook documentation	COMPLETE
Automated deployment	NOT COMPLETE

Part I

Task Progress



1 Repository synchronization

*Products contributing to INDIGO-DataCloud project must have their code available under GitHub's **indigo-dc** organization.*

Repository exists under **indigo-dc** GitHub organization:

<https://github.com/indigo-dc/CloudProviderRanker.git>

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.

Code style definition	Google Java Style		
Community/de-facto standard	Yes		
Exceptions	0		
Richness	54	Errors 54	Warnings 0 link

2.1 Build status

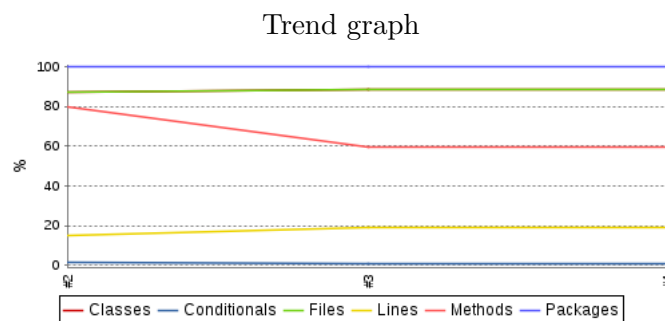
Last build status on Jenkins CI [cloudproviderranker-codestyle](#).

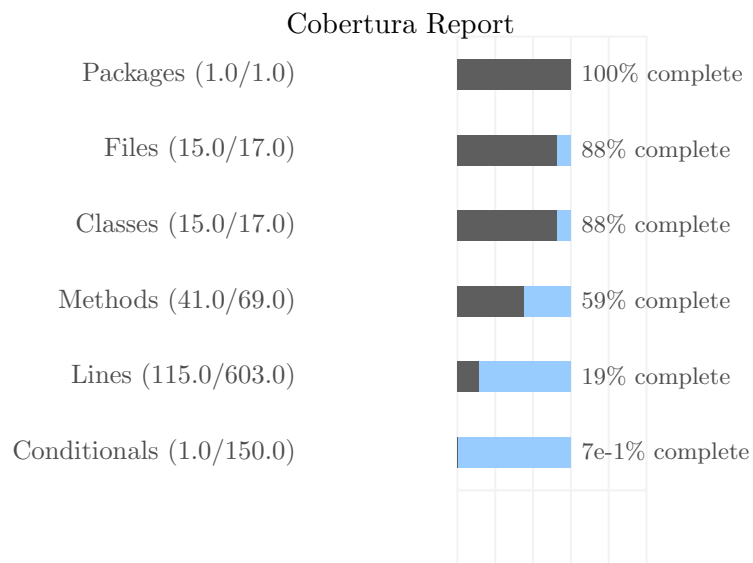
2.2 Observations

1. Progress is set to 50%: code style is defined but the current code is not compliant with it. For further information please check last build at Jenkins CI.

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%.





3.1 Build status

Last build status on Jenkins CI [cloudproviderranker-unittest](#).

3.2 Observations

1. Even though there are quite some work in unit testing in the code, the overall coverage is just 1% since conditional testing is just 1/150 covered.

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.

4.1 Observations

1. Progress set to 50%: guidelines for testing the server are documented in [GitBook](#).

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/cloud-provider-ranker/content/>

5.1 Types of documentation currently provided

Readme	Deployment/user documentation
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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.

Product does not currently provide a automated deployment solution.

6.1 Observations

1. Configuration for CloudProviderRanker server is trivial: zero configuration, or NO configuration at all (puppet or other). It can be launched without any configuration but the editing of two support files in json notation that define weights and priorities used by the internal engine rule.

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.
Build status	Current build status for the project's supported OS distributions.