



INDIGO - DataCloud

## Software Quality Assurance (SQA) Report

22-26 Aug 2016

### fgAPIServer (FutureGateway API Server)

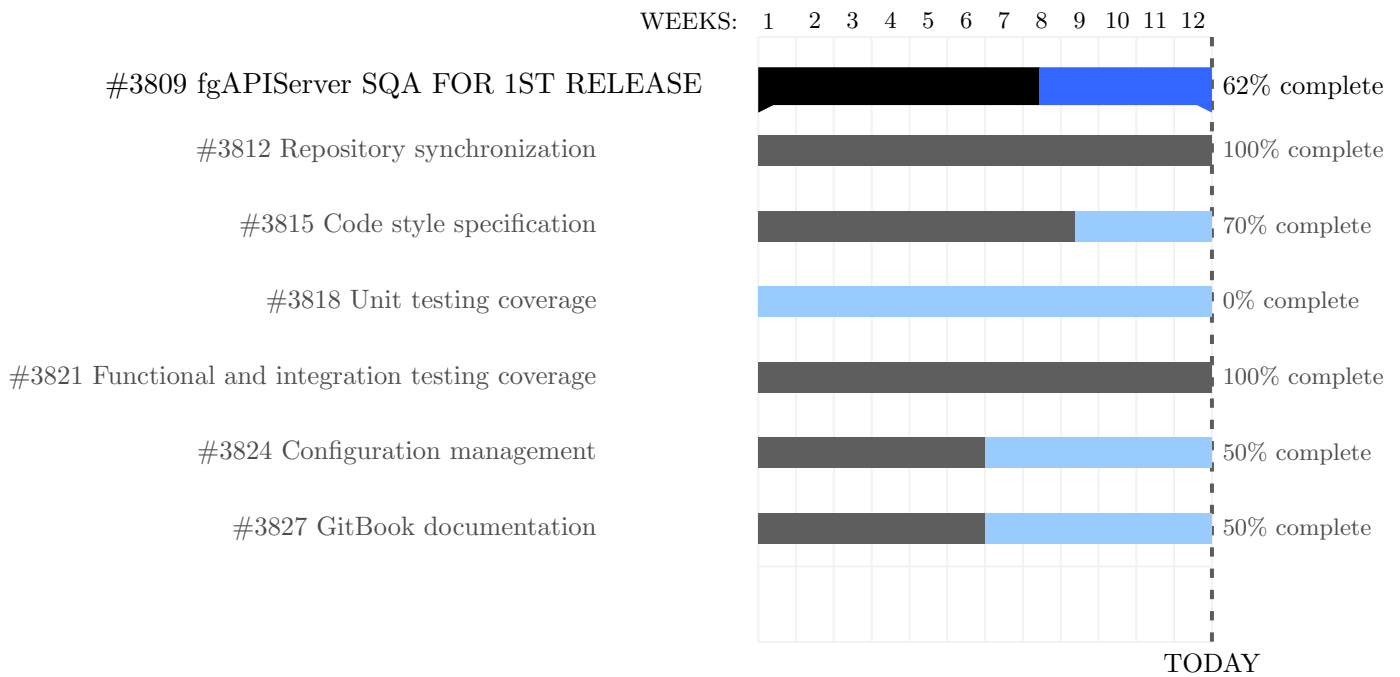
SQA Progress Status **NOT COMPLETE**

**62% done**

GitHub repository	<b>COMPLETE</b>
Code style adherence	<b>NOT COMPLETE</b>
Code coverage	0%
Functional/integration testing	<b>COMPLETE</b>
GitBook documentation	<b>NOT COMPLETE</b>
Automated deployment	<b>NOT COMPLETE</b>

## Part I

## Task Progress for the 1st Release



## 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/fgAPIServer>
- <https://github.com/indigo-dc/APIServerDaemon>

## 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	<a href="#">PEP 8 – Style Guide for Python Code</a>		
Community/de-facto standard	Yes		
Exceptions	0		
Richness	73	Errors 63	Warnings 10 <a href="#">link</a>

Code style definition	<a href="#">Code Conventions for the Java™ Programming Language</a>		
Community/de-facto standard	Yes		
Exceptions	0		
Richness	63	Errors 63	Warnings 0 <a href="#">link</a>

## 2.1 Build status

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

## 2.2 Observations

- Product `APIServerDaemon` is *not* compliant with Java Sun Style guide.

## 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 Observations

- Cannot define a Jenkins job to check the only test written so far `./tests/test_mklogtoken.py` since this test is malformed, meaning that it tries to import modules as it were a Python package but it is not.

## 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 automated execution, reports are being provided.

### 4.1 Test coverage

1. API functionalities being tested  
url<https://github.com/indigo-dc/FutureGateway-APIs/blob/master/apiary.apib> (fgAPIServer).

2. Obtaining/using a token (fgAPIServer).
3. Submit a task (APIServerDaemon).

## 4.2 Reports

Functional report/s available:

- [owncloud report](#)

## 4.3 Observations

- Team has provided reports of manual functional tests being performed. Automated functionality testing has not been provided.

## 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://www.gitbook.com/book/ricsxn/futuregateway/details>

### 5.1 Types of documentation currently provided

Installation Usage

### 5.2 Observations

- Points to improve in the documentation:
  - Documentation is still not available at indigo-dc
  - Align documentation sections to the ones defined in [1], in case you need to add different sections, do it at the end.
  - README (or somewhere else)
    - \* How does this interface with the INDIGO PaaS ?
    - \* Provide example of authentication with the INDIGO IAM
  - Deployment guide
    - \* Only covers Ubuntu 14.04, Centos7 must be documented as well

- \* Installation from source is the only form of deployment documented. This must be completed to cover installation using INDIGO repository.
- \* There is a typo in the URL pointed at wget <https://github.com/FutureGateway/PortalSetup/1>
- \* what is the usefulness of the fgTools to the user communities and/or site admins ? how and when to use them ?
- \* TCP ports that need to be exposed and to which services
- User guide
  - \* How to register and manage users ?
  - \* How to define the universe of resources available to execute the tasks and their properties
  - \* What does it mean GridEngine? is the SGE batch system or is an engine to submit to grid sites ?
  - \* Where is the documentation about the adaptors? add pointers to the docs.
- Regarding PortalSetup
  - \* Not clear if it works with CentOS7 (*EL6/7 Tested with CentOS6*) and directory CentOS7 is not there (*Please notice that OS specific intallation scripts are collected inside dedicated directories.*)
  - \* Rephrase *Debian Tested with Ubuntu* statement.

## 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	bash script
Deployment coverage	installation/configuration
Manifest link	None

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

### 6.1 Observations

- Product does not provide an automated deployment solution based on Ansible or Puppet tools. For the time being, manual deployment is available following the documentation at GitBook.
- Deployment guidelines only cover Ubuntu14.04, not for CentOS7 distributions, which is also required by the project.

## 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:

<b>Tool</b>	Configuration management tool used.
<b>Manifest link</b>	URL pointing to the manifest/s.
<b>Deployment level</b>	Whether <b>installation</b> , <b>configuration</b> or both.
<b>Build status</b>	Current build status for the project's supported OS distributions.