

# Genius : Boron:Release Review

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## Project Name

- Genius (GEneric Network Interface Utilities and Services)

## Features

Genius project provides Generic Network Interfaces, Utilities & Services. Any ODL application can use these to achieve interference-free co-existence with other applications using Genius..opendaylight Boron Genius provides following modules --

1. **Interface (logical port) Manager** allows bindings/registration of multiple services to logical ports/interfaces
2. **Overlay Tunnel Manager** creates and maintains overlay tunnels between configured tunnel endpoints
3. **Aliveness Monitor** provides tunnel/nexthop aliveness monitoring services
4. **ID Manager** generates cluster-wide persistent unique integer IDs
5. **MD-SAL Utils** provides common generic APIs for interaction with MD-SAL
6. **Resource Manager** provides a resource sharing framework for applications sharing common resources e.g. table-ids, group-ids etc.
7. **FCAPS Application** generates various alarms and counters for the different genius modules
8. **FCAPS Framework** module collectively fetches all data generated by fcaps application. Any underlying infrastructure can subscribe for its events to have a generic overview of the various alarms and counters

**Features URL:** [https://git.opendaylight.org/gerrit/gitweb?p=genius.git;a=blob\\_plain;f=features/src/main/features/features.xml](https://git.opendaylight.org/gerrit/gitweb?p=genius.git;a=blob_plain;f=features/src/main/features/features.xml)

- Feature Name: **odl-genius-rest**
  1. Provides all functionalities provided by genius modules.
  2. Top Level: Yes, User Facing: Yes, Experimental: No
- Feature Name: **odl-genius-ui**
  1. Adds dlux ui on top of genius features
  2. Top Level: Yes, User Facing: Yes, Experimental: No
- Feature Name: **odl-genius-fcaps-application**
  1. includes genius FCAPS application
  2. Top Level: Yes, User Facing: Yes, Experimental: Yes
- Feature Name: **odl-genius-fcaps-framework**
  1. includes FCAPS framework
  2. Top Level: Yes, User Facing: yes, Experimental: Yes

**CSIT Test:** <https://jenkins.opendaylight.org/sandbox/job/genius-csit-1/node-genius-all-boron/>

## Non-Code Aspects (user docs, examples, tutorials, articles)

- [Overview](#)
- [User Guide](#)
- [Developer Guide](#)
- [Installation Guide](#)
- [Postman collection for the sample APIs](#)
- [Boron Test Plan](#)
- [Release Note](#)

## Architectural Issues

- There are no architectural issues.

## Security Considerations

- There are no security issues found.

## Quality Assurance (test coverage, etc)

### Test Coverage

- [Unit Test](#)

### CSIT

- <https://jenkins.opendaylight.org/sandbox/job/genius-csit-1node-genius-all-boron/>

## End-of-life (API/Features EOled in Release)

- N/A

## Bugzilla (summary of bug situation)

## Standards (summary of standard compliance)

- N/A

## Schedule (initial schedule and changes over the release cycle)

- Project was on schedule.