

AAA: Beryllium: Release Status

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Features

Fourth simultaneous release of AAA.

- Shiro Integration
- LDAP Integration
- RBAC Integration
- idmtool integration for AAA Identity Management Manipulation
- Experimental MD-SAL implementation

New Features

- odl-aaa-shiro
- odl-aaa-authn-mdsal-cluster [EXPERIMENTAL]

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

Added a "Tutorials & Examples" section to the wiki. New and updated content:

- [How to disable AAA](#)
- [Connecting to IdmLight with psql](#)
- [Change account passwords](#)
- [Authorization Hello World Example](#)
- [WIP Apache Shiro Migration](#)
- [Source IP Based Authorization](#)
- [Getting Started](#)

Also, completely reworked the user facing documentation which is under review: <https://git.opendaylight.org/gerrit/#/c/34264/>

Architectural Issues

odl-aaa-mdsal-cluster and odl-aaa-authz are purely experimental. They are not turned on by default!

Security Considerations

Security was greatly improved in 4 respects:

1. Shiro code was used to replace a lot of untested home-grown code
2. LDAP support was added to completely externalize IdM if desired
3. passwords are encrypted with SHA256 + salt
4. Enhanced and improved logging of user requests was added

AAA still isn't perfect, but made HUGE strides forward.

Quality Assurance (test coverage, etc)

- The code is covered by unit tests

Beryllium release marks 34% of unit tests Coverage, up from 21% in Lithium.

- Currently failing integration tests should be fixed soon; schema change caused many things to fail.

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

All deprecated classes and methods have been marked with @Deprecated annotation. These include:

- VersionHandler.java

Bugzilla (summary of bug situation)

[\[1\]](#) Only major or greater bug is really a known enhancement request targeted at Boron.

Standards

N/A

Schedule (initial schedule and changes over the release cycle)

Issues came up with loading MD-SAL based cluster store through the configuration subsystem, which caused us to mark this as an experimental feature. Those issues are well known, and a workaround may exist but wasn't tried due to drained resources. Fixing this functionality is targeted for the Boron release.

AAA had some changes in contriubtorship; we dealt with losing 4 contributors and a PTL change mid release. I believe the remaining members made up for this, and did a great job delivering on the release. This was all possible by great teamwork and community sponsorship.