

USC: Lithium: Release Review

Contents

- [Project Name](#)
- [Features](#)
- [Non-Code Aspects \(user docs, examples, tutorials, articles\)](#)
- [Architectural Issues](#)
- [Security Considerations](#)
- [Quality Assurance \(test coverage, etc\)](#)
- [End-of-life \(API/Features EOled in Release\)](#)
- [Bugzilla \(summary of bug situation\)](#)
- [Standards \(summary of standard compliance\)](#)
- [Schedule \(initial schedule and changes over the release cycle\)](#)

Project Name

Unified Secure Channel

Features

- USC Agent provides proxy and agent functionality on top of all standard protocols supported by the device. It initiates call-home with the controller, maintains live connections with the controller, acts as a demuxer/muxer for packets with the USC header, and authenticates the controller.
- USC Plugin is responsible for communication between the controller and the USC agent . It responds to call-home with the controller, maintains live connections with the devices, acts as a muxer/demuxer for packets with the USC header, and provides support for TLS/DTLS.
- USC Manager handles configurations, high availability, security, monitoring, and clustering support for USC.
- USC UI is responsible for displaying a graphical user interface representing the state of USC in the OpenDaylight DLUX UI.

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

- [Architecture](#)
- [Developer Guide](#)
- [User Guide](#)

Architectural Issues

- No known issues found.

Security Considerations

- No known issues found.

Quality Assurance (test coverage, etc)

- [JUNIT](#): Code is covered by unit and integration tests, but Sonar does not currently track test coverage correctly. USC covered by 41 unit test cases.
- [Manual](#): External System Tests are performed manually in Lithium (will automate in Beryllium).

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

- N/A

Bugzilla (summary of bug situation)

- [Bug List](#)
- [3402](#): Cast failure on exception branch in view channel rpc request. Workaround: A null shard service throws this exceptions, so wait until shard service is available before using the view channel API.
- [3291](#): Remote channel request should use same controller for same session. Workaround: Use same controller for all sessions.
- [3290](#): Remote session id conflicts with the local session id using same channel. Workaround: Suggest to restart usc if this edge case occurs due to session id conflicts.

Standards (summary of standard compliance)

- N/A

Schedule (initial schedule and changes over the release cycle)

- Project was on schedule