

USC: Lithium: Release Notes

Contents

- [Major Features](#)
- [Target Environment](#)
 - [For Agent](#)
 - [For Execution](#)
 - [For Development](#)
- [Known Issues and Limitations](#)
- [Testing methodology](#)

Major 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, provides demux/mux 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 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.

Target Environment

For Agent

- The USC Agent C Code is available at https://github.com/rchuppala/usc_agent
- Follow the README instructions to build, install, and execute.

For Execution

- Requires Java 7 compliant runtime environment.
- Follow the OpenDaylight Lithium installation and user guide documentation to install OpenDaylight Lithium including USC features.

For Development

- Requires Java 7 compliant runtime environment, Maven version 3.1.1.
- Follow the OpenDaylight Lithium installation and user guide documentation to install OpenDaylight Lithium including USC features.
- USC UI development requires DLUX set up in developer mode: [DLUX Developer Mode](#)

Known Issues and Limitations

- [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.

Testing methodology

- Code is covered by unit and integration tests
- External System Tests are performed manually in Lithium (will automate in Beryllium).