

USC

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Introduction

Unified Secure Channel (USC) is a Software Defined Networking (SDN) component that uses unified secure channels to enable communications between SDN controllers and enterprise network elements. USC is distributed as a part of the community driven and industry supported OpenDaylight Project, an open source platform for SDN and NFV.

USC enables secure and high performance communication between SDN controllers and network elements across wide area networks. By establishing a unified secure tunnel, USC facilitates secure and reliable management and control of various devices, including network devices, cloud gateways, IoT devices. Out of the box, USC provides call-home, mutual authentication, and protocol multiplexing.

In enterprise networks, more and more controller and network management systems are being deployed remotely and in the cloud. As enterprise networks become more and more heterogeneous - branch, IoT, wireless - enterprise customers will want a converged network controller and management system solution. USC can solve the security, performance, and management issues for such solutions.

Key Features

- High Security: Encrypted communication & mutual authentication
- Better Performance: Converged tunneling for all protocols
- Large Capacity: Support clustering & Satisfy different capacity requirements with elastic scalability

Documentation

[Getting Started for Users](#)

[Getting Started for Developers](#)

Project Information

[Project Proposal](#)

Project Facts

Project Creation Date: Dec 11th, 2014

Lifecycle State: Incubation

Type: Protocol

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IRC: [#opendaylight](https://freenode.net)

Mailing List: usc-dev@lists.opendaylight.org

Archives: [mailing list archives](#)

Meetings: See [Community Meetings](#)

Repository: git clone <https://git.opendaylight.org/gerrit/usc>

Jenkins: [jenkins silo](#)

Gerrit Patches: [code patches /reviews](#)

Bugs:

- [open bugs](#)

Release	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Oxygen	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Nitrogen	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Boron	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Lithium	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Beryllium	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide

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Requirements

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