

Unimgr: Beryllium: Release Notes

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Major Features

UNI Manager plug-in is an experimental/proof-of-concept project introduced to OpenDaylight with the Beryllium release.

- User-facing feature: odl-unimgr-ui
- Northbound REST interface to receive requests for Ethernet Private Line service with UNI locations and Class of Service ID
- Obtains Class of Service parameters from northbound Class of Service Manager API implementation (see OPNFV Connectivity Services LSO project)
- Configures two specified OVS instances with two bridged ports through the OpenDaylight OVSDb southbound API, emulating User Network Interface (UNI) functionality in the OVS instances
- Creates GRE tunnel between two specified OVS instances through the OVSDb southbound API, emulating an Ethernet Virtual Connection (EVC)
- Integrated with ODL Topology Manager: updates ODL Topology with UNI and EVC attributes:
 - When a UNI is created it is added to the ODL Network Topology with UNI Manager schema
 - When an EVC is created it is added to the ODL Network Topology with EVC schema

Target Environment

For Execution

- Usual JRE requirements of OpenDaylight.
- UNI Manager plug-in is called by OPNFV Connectivity Services LSO API implementations

For Development

- Usual JDK and maven requirements of OpenDaylight.
 - UNI Manager plug-in code is fully integrated in the Jenkins CI environment

Known Issues and Limitations

- Occasionally does not complete the GRE tunnel in the second OVS instance.
- Occasionally upon UPDATE command changes the OVS interface speed to the incorrect value
- Testing methodology
 - Approximately 50% unit test coverage complete
 - Jacoco plug-in used for unit tests works with the Mockito test framework but does not work well with Power Mockito framework so reporting is not necessarily accurate.
 - Some integration tests have been completed
 - Reference: <https://github.com/opendaylight/unimgr/blob/master/it/src/test/java/org/opendaylight/unimgr/it/UnimgrIT.java>
 - System tests completed
 - System tests are defined in the Integration/Test Project
 - UNI Manager System Test patch is here: <https://git.opendaylight.org/gerrit/#/c/34362/>
 - Distribution Test: UNI Manager feature has been added to the distribution test
 - End-to-end testing has been done with development and verification platform comprised of web UI, OPNFV Connectivity Services LSO project API implementations, and ODL UNI Manager plug-in all running on an Ubuntu laptop; two instances of OVS running in Raspberry Pis; and a client laptop connected to each of the OVS instances. When the GRE tunnel is created by UNI Manager traffic is exchanged between the client laptops through the Raspberry Pis/OVS.