

# OVSDB: Lithium: Release Notes

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## Major Features

Lithium marked the third release of the OVSDB project. The release delivers increased code and testing coverage, improved network virtualization integration with OpenStack and an MDSAL-based OVSDB plugin.

- better parity with OpenStack Neutron
- native DVR service including SNAT, external gateway and floating IP support
- more robust and stable solution
- increased code quality, unit, integration and system test coverage
- MDSAL OVSDB southbound plugin

## OpenDaylight Features

- odl-ovsdb-schema-openvswitch: Schema wrapper that represents <http://openvswitch.org/ovs-vsitchd.conf.db.5.pdf>
- odl-ovsdb-schema-hardwarevtep: Schema wrapper that represents <http://openvswitch.org/docs/vtep.5.pdf>
- odl-ovsdb-library: Contains Schema-independent library that is a reference implementation for [RFC 7047](#).
- odl-ovsdb-openstack: OpenDaylight and OpenStack integration using OVSDB and Neutron to support network virtualization.
- odl-ovsdb-southbound-api: YANG model for OVSDB
- odl-ovsdb-southbound-impl: Implementation for the OVSDB YANG model

## Standards

- [OpenFlow v1.3](#)
- [RFC7047](#): The Open vSwitch Database Management Protocol
- [OpenStack Neutron ML2 Plugin](#)

## Target Environment

As per the general Lithium release, i.e., JDK7 for development and JRE7 for execution.

## Known Issues and Limitations

- OVSDB updates greater than 100,000 bytes will be silently ignored by the library
- In some cases manual updates to the OVSDB database will cause inconsistencies in the OpenDaylight operational and config datastore.

## Migration from Previous Releases

Migration and compatibility with previous releases is not supported since the OVSDB MDSAL model is new in this release so there is nothing to migrate.

## Deprecated, End of Lived, and/or Retired Features/API

All the ADSAL related components are deprecated: plugin and northbound