

# OVSDB: Lithium Release Plan

## Contents

- [Introduction](#)
- [Trello](#)
- [Release Deliverables](#)
- [Release Milestones](#)
- [Externally Consumable APIs](#)
- [Expected Dependencies on Other Projects](#)
- [Expected Incompatibilities with Other Projects](#)
- [Compatibility with Previous Releases](#)
  - [Removed APIs and/or Functionality](#)
  - [Deprecated APIs and/or Functionality](#)
  - [Changed APIs and/or Functionality](#)
- [Themes and Priorities](#)
- [Requests from Other Projects](#)
  - [Active Requests](#)
- [Test Tools Requirements](#)
- [Other](#)

## Introduction

[https://wiki.opendaylight.org/view/OVSDB\\_Integration:Main](https://wiki.opendaylight.org/view/OVSDB_Integration:Main)

## Trello

The Trello is at [\[1\]](#).

## Release Deliverables

Name	Description
Bug fixing	High-priority bug fixes. Bugs identified when the odl stackforge testing infrastructure is in place.
Sonar coverage	Increase unit, integration and code coverage reported by Sonar to improve code quality and stability
Tempest coverage	Enable more Tempest test coverage
AD-SAL Deprecation	Deprecate AD-SAL dependencies
MD-SAL OVSDB	Add MD-SAL interface to OVSDB

## Release Milestones

Milestone	Offset 2 Date	Deliverables		
M1	1/8/2015	Name	Status	Description
		Intent to participate	Done	Intent to participate in Lithium Simultaneous Release
		Project Lead elected	Done	Project Lead election
		Test Contact specified	Done	Test Contact announced
		Candidate Release Plan	Done	Candidate Release Plan

M2	2/5/2015	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>Release Plan</td><td>Done</td><td>Final Release Plan</td></tr><tr><td>Project Checklist</td><td>Done</td><td>Project Checklist completed</td></tr><tr><td>OpenDaylight CI</td><td>Done</td><td>OpenDaylight CI infrastructure usage for system test</td></tr><tr><td>Rackspace Test Tools Installation</td><td>Done</td><td></td></tr></table>			Name	Status	Description	Release Plan	Done	Final Release Plan	Project Checklist	Done	Project Checklist completed	OpenDaylight CI	Done	OpenDaylight CI infrastructure usage for system test	Rackspace Test Tools Installation	Done				
Name	Status	Description																				
Release Plan	Done	Final Release Plan																				
Project Checklist	Done	Project Checklist completed																				
OpenDaylight CI	Done	OpenDaylight CI infrastructure usage for system test																				
Rackspace Test Tools Installation	Done																					
M3	3/19/2015	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>Functionality Freeze</td><td>Done</td><td></td></tr><tr><td>Karaf Features Defined</td><td>Done</td><td><a href="#">User Facing Features</a></td></tr><tr><td>Documentation Started</td><td>Done</td><td><a href="#">Gerrit 18486</a> <a href="#">Gerrit 20328</a></td></tr><tr><td>Integration and System Test Template</td><td>Done</td><td><a href="#">OVSDB:Lithium_Integration_Test</a></td></tr></table>			Name	Status	Description	Functionality Freeze	Done		Karaf Features Defined	Done	<a href="#">User Facing Features</a>	Documentation Started	Done	<a href="#">Gerrit 18486</a> <a href="#">Gerrit 20328</a>	Integration and System Test Template	Done	<a href="#">OVSDB:Lithium_Integration_Test</a>			
Name	Status	Description																				
Functionality Freeze	Done																					
Karaf Features Defined	Done	<a href="#">User Facing Features</a>																				
Documentation Started	Done	<a href="#">Gerrit 18486</a> <a href="#">Gerrit 20328</a>																				
Integration and System Test Template	Done	<a href="#">OVSDB:Lithium_Integration_Test</a>																				
M4	4/16/2015	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>API Freeze</td><td>Done</td><td></td></tr><tr><td>Documentation word count</td><td>Done</td><td></td></tr><tr><td>Maven Central Requirements</td><td>Done</td><td></td></tr><tr><td>Simple Integration and System Test</td><td>Done</td><td></td></tr></table>			Name	Status	Description	API Freeze	Done		Documentation word count	Done		Maven Central Requirements	Done		Simple Integration and System Test	Done				
Name	Status	Description																				
API Freeze	Done																					
Documentation word count	Done																					
Maven Central Requirements	Done																					
Simple Integration and System Test	Done																					
M5	5/14/2015	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>Code Freeze</td><td>Done</td><td></td></tr><tr><td>Stability Branch</td><td>Done</td><td>Stability branch, i.e., stable/lithium, must be cut and local project versions bumped on the master to avoid overwriting lithium SNAPSHOTS</td></tr><tr><td>String Freeze</td><td>Done</td><td>All externally visible strings frozen to allow for translation &amp; documentation</td></tr><tr><td>Documentation Complete</td><td></td><td>Only editing and enhancing should take place after this point.</td></tr><tr><td>Integration &amp; System Test</td><td>Done</td><td></td></tr></table>			Name	Status	Description	Code Freeze	Done		Stability Branch	Done	Stability branch, i.e., stable/lithium, must be cut and local project versions bumped on the master to avoid overwriting lithium SNAPSHOTS	String Freeze	Done	All externally visible strings frozen to allow for translation & documentation	Documentation Complete		Only editing and enhancing should take place after this point.	Integration & System Test	Done	
Name	Status	Description																				
Code Freeze	Done																					
Stability Branch	Done	Stability branch, i.e., stable/lithium, must be cut and local project versions bumped on the master to avoid overwriting lithium SNAPSHOTS																				
String Freeze	Done	All externally visible strings frozen to allow for translation & documentation																				
Documentation Complete		Only editing and enhancing should take place after this point.																				
Integration & System Test	Done																					
RC0	5/28/2015	<table><tr><th>Name</th><th>Status</th></tr><tr><td>Release Candidate 0</td><td></td></tr></table>			Name	Status	Release Candidate 0															
Name	Status																					
Release Candidate 0																						
RC1	6/4/2015	<table><tr><th>Name</th><th>Status</th></tr><tr><td>Release Candidate 1</td><td></td></tr></table>			Name	Status	Release Candidate 1															
Name	Status																					
Release Candidate 1																						
RC2	6/11/2015	<table><tr><th>Name</th><th>Status</th></tr><tr><td>Release Candidate 2</td><td></td></tr></table>			Name	Status	Release Candidate 2															
Name	Status																					
Release Candidate 2																						
RC3	6/18/2015	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>Bugfix &amp; more</td><td></td><td>Bugfixing, samples</td></tr><tr><td>Release Review</td><td></td><td>Release Review</td></tr><tr><td>Release Candidate 3</td><td></td><td></td></tr><tr><td>Blocking Bugs</td><td></td><td></td></tr></table>			Name	Status	Description	Bugfix & more		Bugfixing, samples	Release Review		Release Review	Release Candidate 3			Blocking Bugs					
Name	Status	Description																				
Bugfix & more		Bugfixing, samples																				
Release Review		Release Review																				
Release Candidate 3																						
Blocking Bugs																						

Formal Release	6/25/2015	<table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Formal Lithium Release</td><td></td><td colspan="2"></td></tr><tr><td>Release patch</td><td></td><td colspan="2">Release patch to the stable/lithium branch and bump versions</td></tr></table>			Name	Status	Description		Formal Lithium Release				Release patch		Release patch to the stable/lithium branch and bump versions	
		Name	Status	Description												
		Formal Lithium Release														
Release patch		Release patch to the stable/lithium branch and bump versions														
SR1 Release	8/13/2015	<table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Release patch</td><td></td><td colspan="2">Release patch to the stable/lithium branch and bump versions</td></tr></table>				Name	Status	Description		Release patch		Release patch to the stable/lithium branch and bump versions				
		Name	Status	Description												
Release patch		Release patch to the stable/lithium branch and bump versions														
SR2 Release	9/24/2015	<table><tr><th>Name</th><th>Status</th><th colspan="2">Description</th></tr><tr><td>Release patch</td><td></td><td colspan="2">Release patch to the stable/lithium branch and bump versions</td></tr></table>				Name	Status	Description		Release patch		Release patch to the stable/lithium branch and bump versions				
		Name	Status	Description												
Release patch		Release patch to the stable/lithium branch and bump versions														

## Externally Consumable APIs

Artefact	Status	Description
OvsdbInventoryListener	Stable	Existing APIs to perform OVSDb crud operations
Southbound	Tentative	MD-SAL OVSDb crud operations

## Expected Dependencies on Other Projects

Providing Project	Deliverable Name	Needed By	Acknowledged?	Description
controller	features	M3	No	basic controller features
odlparent	features	M3	No	odlparent values
openflowplugin	features	M3	No	flow programming and extensions
yangtools	features	M3	No	yangtools for compiling yang

## Expected Incompatibilities with Other Projects

OVSDb is considered incompatible with applications that program the flow tables on vSwitches. This includes:

GBP  
OpenDOVE  
VTN

These projects have not held discussions as to how to become compatible because they each provide their own solution to the same problem.

## Compatibility with Previous Releases

### Removed APIs and/or Functionality

The BridgeDomain APIs are removed since they were deprecated in Helium. The APIs were not used.

### Deprecated APIs and/or Functionality

The OVSDb northbound API might be depreciated depending on the outcome of the AD-SAL deprecation. The APIs currently use some AD-SAL dependencies.

### Changed APIs and/or Functionality

## Themes and Priorities

- Increasing unit and integration test coverage to improve code quality

- Deprecate AD-SAL dependencies
- Provide an MD-SAL interface to OVSDDB for crud operations

## Requests from Other Projects

### Active Requests

- **Requesting Project:** VPN Service
  - **Providing Project:** OVSDDB
  - **Requested Deliverable Name:** OVSDDB interface
  - **Needed Milestone:**
  - **Requested Deliverable Description:** We only require the ability to query and instantiate non-OpenFlow information such as ports, bridges, tunnels etc.
  - **Response:**
    - **Description:**
    - **Resources From:**
    - **Link to Section in Requesting Project Release Plan:**
    - **Link to Section in Providing Project Release Plan:**
  - **Negotiation:**
- 
- **Requesting Project:** VTN
  - **Providing Project:** OVSDDB
  - **Requested Deliverable Name:** OVSDDB interface
  - **Needed Milestone:**
  - **Requested Deliverable Description:** We only require the ability to query and instantiate non-OpenFlow information such as ports, bridges, tunnels etc. We prefer the existing OVSDDB plugin OVSDDBInventoryListener interface and not an md-sal interface due to time constraints.
  - **Response:**
    - **Description:**
    - **Resources From:**
    - **Link to Section in Requesting Project Release Plan:**
    - **Link to Section in Providing Project Release Plan:**
  - **Negotiation:**
- 
- **Requesting Project:** SFC (<https://lists.opendaylight.org/pipermail/sfc-dev/2015-January/000659.html>)
  - **Providing Project:** OVSDDB
  - **Requested Deliverable Name:** MD-SAL OVSDDB
  - **Needed Milestone:** M2
  - **Requested Deliverable Description:** Working MD-SAL OVSDDB SB plugin for communicating SFC information to the node. Independent of netvirt.
  - **Response:**
    - **Description:**
    - **Resources From:**
    - **Link to Section in Requesting Project Release Plan:**
    - **Link to Section in Providing Project Release Plan:**
  - **Negotiation:**
- 
- **Requesting Project:** GBP (<https://lists.opendaylight.org/pipermail/release/2015-January/001148.html>)
  - **Providing Project:** OVSDDB
  - **Requested Deliverable Name:** MD-SAL OVSDDB
  - **Needed Milestone:** M2
  - **Requested Deliverable Description:** Working MD-SAL OVSDDB SB plugin for communicating to node independent of netvirt. We only require the ability to query and instantiate non-OpenFlow information such as ports, bridges, tunnels etc. This is probably a duplicate of the SFC request.
  - **Response:**
    - **Description:**
    - **Resources From:**
    - **Link to Section in Requesting Project Release Plan:**
    - **Link to Section in Providing Project Release Plan:**
  - **Negotiation:**

## Test Tools Requirements

This project plans on using System Test (ST) inside the OpenDaylight cloud. In particular, the integration piece of OVSDDB's Netvirt will require an Openstack Installation that uses ODL as the Neutron ML2. It is the goal to integrate with both Icehouse and Juno.

Update: Flaviof talked with Than and is currently convinced that the infra provided by jjb and sandbox is all that will be needed in terms of infrastructure to have automated tests on OVSDDB functionality in Lithium. The plan will utilize VMs of the label 'dynamic\_devstack'.

**Other**