

OVSDB:Beryllium Release Plan

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Introduction

https://wiki.opendaylight.org/view/OVSDB_Integration:Main

Release Deliverables

Name	Description
Code quality, stability and usability	Bug fixing, increase Sonar coverage, increase Tempest coverage
AD-SAL deprecation	Remove remaining AD-SAL dependencies like the compatibility layer
NetVirt updates	OpenFlow optimizations, config migration
SFC integration	SFC integration
Neutron Parity	L3, LBaaS, IPv6, Security Groups, Metadata, Provider Networks, SR-IOV
Hardware VTEP	hv_vtep southbound, NetVirt
Southbound updates	Add QoS and Queue support
Clustering/HA/Persistence	Clustering/HA/Persistence
User Interface	User Interface
DPDK	Enhancements to support DPDK

Release Milestones

Milestone	Offset 2 Date	Deliverables		
M1	8/6/2015	Name	Status	Description
		Intent to participate	Done	Intent to participate in Beryllium Simultaneous Release
		Project Lead elected	Done	Project Lead election
		Test Contact specified	Done	Test Contact announced
		Candidate Release Plan	Done	Candidate Release Plan

M2	9/3/2015	Name	Status	Description
		Final Release Plan	Done	Final Release Plan
		Project Checklist	Done	Project Checklist completed
		OpenDaylight CI	Done	OpenDaylight CI infrastructure usage for system test
		Project acknowledgement	Done	
M3	10/15/2015	Name	Status	Description
		Functionality Freeze	Done	
		Karaf Features Defined	Done	
		Documentation Started	Done	
		Feature Test Started	Done	
M4	12/03/2015	Name	Status	Description
		API Freeze	Done	
		Documentation word count	Done	
		Maven Central Requirements	Done	
		Feature Test Continues	Done	
M5	01/14/2015	Name	Status	Description
		Code Freeze	Done	
		Stability Branch	Done	Stability branch must be cut and local project versions bumped on the master to avoid overwriting SNAPSHOTS
		String Freeze	Done	All externally visible strings frozen to allow for translation & documentation
		Documentation Complete	Done	Only editing and enhancing should take place after this point.
		Integration & System Test	Done	
RC0	1/21/2016	Name	Status	
		Release Candidate 0	Done	
RC1	1/28/2016	Name	Status	
		Release Candidate 1	Done	
RC2	2/4/2016	Name	Status	
		Release Candidate 2	Done	
RC3	2/11/2016	Name	Status	Description
		Bugfix & more	Done	Bugfixing, samples
		Release Review	Done	Release Review
		Release Candidate 3	Done	
		Blocking Bugs	Done	

Formal Release	2/18/2016			
		Name	Status	Description
		Formal Beryllium Release		
		Release patch		Release patch to the stable branch and bump versions
SR1 Release	3/17/2016	Name	Status	Description
		Release patch		Release patch to the stable branch and bump versions
SR2 Release	4/28/2016	Name	Status	Description
		Release patch		Release patch to the stable branch and bump versions
SR3 Release	7/28/2016	Name	Status	Description
		Release patch		Release patch to the stable branch and bump versions
SR4 Release	10/20/2016	Name	Status	Description
		Release patch		Release patch to the stable branch and bump versions

Externally Consumable APIs

Artefact	Status	Description
Southbound	Stable	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
mdsal	features	M3	No	mdsal features
neutron	features	M3	No	neutron CRUD
odlparent	features	M3	No	odlparent values
openflowplugin	features	M3	No	flow programming and extensions
SFC	features	M3	No	sfc building
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

All ADSAL APIs and functionality will be removed since they were deprecated in Lithium and all external ADSAL dependencies have been removed.

Deprecated APIs and/or Functionality

Changed APIs and/or Functionality

Themes and Priorities

- Increasing code, unit and integration test coverage to improve code quality, stability and usability
- Remove AD-SAL dependencies
- Neutron parity
- SFC integration
- Additional functionality to support QoS and Queue and hw vtep

Requests from Other Projects

Active Requests

Test Tools Requirements

System Test

This project plans on using System Test (ST) inside the OpenDaylight cloud:

- netvirt: [test suites](#)
- the southbound piece: [test suites](#)
- scalability tests: TBD
- hvvtpepsouthbound: TBD
- ovs-sfc: TBD

Here is a wiki page presenting the CSIT jobs implemented in the integration/test project regarding some of those modules: [OVSDDB: CSIT](#)

Unit Test

- Netvirt: approximately 90% based on Lithium
- Southbound: for now around 35%, but this is still WIP
- hvvtpepsouthbound: TBD
- ovs-sfc: TBD

Integration Test

- Southbound: done
- Library: done
- Netvirt: done
- hvvtpepsouthbound: TBD
- ovs-sfc: TBD

Cluster Test

- [OVSDDB Clustering Development Environment Setup](#)

End to end Test

With OpenStack/Devstack:

- LBaaS functionality: [LBaaS#Testing](#)
- [OpenStack with Opendaylight Part 1: Intro to Pipeline](#)
- [OpenStack with Opendaylight Part 2: L3 East-West](#)
- [OpenStack with Opendaylight Part 3: L3 North-South](#)

Other

