NeutronNorthbound: Boron Release Plan

Introduction

Release Deliverables

Name	Description
org.opendaylight.neutron.neutron-spi	Internal bundle implementing neutron data objects
org.opendaylight.neutron.transcriber	Internal bundle implementing copying data from northbound to subscribers
org.opendaylight.neutron.northbound-api	Bundle implementing Northbound API
org.opendaylight.neutron.model	Bundle holding the Neutron yang models
org.opendaylight.neutron.neutron-logger	Bundle that logs datatree-changes on Neutron yang models
org.opendaylight.neutron.utils (this name is tentative. TBD)	Bundle that implementing common utilities
org.opendaylight.neutron.hostconfig.ovsedb (this name is tentative. TBD)	Bundle implementing hostconfig with ovsdb
org.opendaylight.neutron.hostconfig.vpp (this name is tentative. TBD)	Bundle implementing hostconfig with vpp

Featurewise list:

Name	Description	
resource status report	ODL reports status update of resource to neutron, nteworking-odl	
QoS API update	update yang models for QoS API	
TRUNK API	TRUNK API(aka vlan-aware-vm api)	
yang model: project-id	add project-id for tenant-id. add compatiblility logic for future deprecation of tenant-id.	
yang mode update for Neutron change	various minor yang model update to catch up to Neutron change	
utility libraries for hostconfig	various helper libraries to support hostconfig that will be utilized by openstack service provider.	

Release Milestones

Offset: 1

Milestone	Offset 1 Date	Deliverables				
M1	10/27/2016	Name		Status	Description	
		Intent to participate		Done	Intent to participate in Boron Simultaneous Release	
		Project Lead elected and project contact		Done	Project/Test Lead election	
		documentation/test contact		Done	select document/test contact	
		Release Plan			Done	Candidate Release Plan
M2	12/1/2016	Name	Status	Status Description Done Final Release Plan		
		Release Plan	Done			
		System Test Waiver	on-going			

M3	1/19/2017	Name	Status	Description				
		Feature Freeze	Done					
		Candidate Stable Distribution						
		Extension Distribution						
M4	2/16/2017 Name		Description					
		API Freeze	Done					
			A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.					
		Extension Distribution	A running candidate of what is attempting to be the extension distribution.					
M5	3/16/2017	Name			Description			
		Code Freeze	Done					
			A running ca he TSC.	ndidate of what is	s attempting to be the stable distribution to be blessed by			
		Extension Distribution	A running ca	ndidate of what is	s attempting to be the extension distribution.			
RC0	4/13/2017 Name		Description					
			A running ca he TSC.	ndidate of what is	s attempting to be the stable distribution to be blessed by			
		Extension Distribution	A running candidate of what is attempting to be the extension distribution.					
RC1	4/20/2017	Name	Description					
			A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.					
		Extension Distribution	A running candidate of what is attempting to be the extension distribution.					
RC2	4/27/2017	Name	Description					
		Release Review	Release Review Description					
			A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.					
		Extension Distribution	A running candidate of what is attempting to be the extension distribution.					
RC3	5/4/2017	Name	Description					
		Release Review	Release Review Description					
			A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.					
	Extension Distribution		A running candidate of what is attempting to be the extension distribution.					
Formal Release	5/11/2016	Name Des	cription					
		Deliverable Name Deliverab	le Description	on				

Externally Consumable APIs

Short Name	Description	Type (at M2)	Type (at M3)	Type (release)	Contract	Supporting Code
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TBD	Northbound	Interface to OpenStack networking-odl			Openstack Networking Ref v2 Openstack Networking API v2.0 extensions	org.opendaylight. neutron. northbound-api
MD-SAL yang models: To be updated						
MD-SAL Networks Model	YANG model for Neutron Networks	Provisional	Provisio nal	Provisional	neutron-networks.yang	org.opendaylight. neutron.model
MD-SAL Subnet Model	YANG model for Neutron Subnets	Provisional	Provisio nal	Provisional	neutron-subnets.yang	org.opendaylight. neutron.model
MD-SAL Ports Model	YANG model for Neutron Ports	Provisional	Provisio nal	Provisional	neutron-ports.yang	org.opendaylight. neutron.model
MD-SAL L3 Model	YANG model for Neutron Routers and Floating IPs	Provisional	Provisio nal	Provisional	neutron-I3.yang	org.opendaylight. neutron.model
MD-SAL FWaaS Model	YANG model for Neutron Firewalls, Firewall Policies, Firewall Rules	Provisional	Provisio nal	Provisional	neutron-fwaas.yang	org.opendaylight. neutron.model
MD-SAL LBaaS Model	YANG model for Neutron Load Balancer, Load Balancer Health Monitor, Load Balancer Listener, Load Balancer Pool, and Load Balancer Pool Member	Provisional	Provisio nal	Provisional	neutron-lbaas.yang	org.opendaylight. neutron.model
MD-SAL Metering Model	YANG model for Neutron Metering Label and Metering Label Rule	Provisional	Provisio nal	Provisional	neutron-metering.yang	org.opendaylight. neutron.model
MD-SAL Security Group/Rule Model	YANG model for Neutron Security Group and Security Rule	Provisional	Provisio nal	Provisional	neutron-secgroups.yang	org.opendaylight. neutron.model
MD-SAL VPNaaS Model	YANG model for Neutron VPN IKE Policy, VPN IPSEC Policy, VPN IPSEC Site Connection, VPN Service	Provisional	Provisio nal	Provisional	neutron-vpnaas.yang	org.opendaylight. neutron.model
MD-SAL L2- gateway Model	YANG model for Neutron L2 Gateway, L2 Gateway Connection	Provisional	Provisio nal	Provisional	neutron-l2gateways.yang	org.opendaylight. neutron.model
MD-SAL BGPVPN Model	YANG model for Neutron BGPVPN	Provisional	Provisio nal	Provisional	neutron-bgpvpn.yang	org.opendaylight. neutron.model
Neutron HostConfig Model	YANG model for Neutron Hostconfig	Provisional	Provisio nal	Provisional	neutron-hostconfig.yang	org.opendaylight. neutron.model
Neutron QoS Model	YANG model for Neutron QoS API	Provisional	Provisio nal	Provisional	neutron-qos.yang	org.opendaylight. neutron.model
Neutron SFC Model	YANG model for Neutron SFC API (networking-sfc)	Provisional	Provisio nal	Provisional	neutron-sfc.yang	org.opendaylight. neutron.model
Neutron extension discovery Model	YANG model for Neutron extension discovery	Provisional	Provisio nal	Provisional	neutron-extension.yang	org.opendaylight. neutron.model
Neutron TRUNK API Model	YANG model for Neutron TRUNK API	N/A	N/A	Provisional (planned)	neutron-trunk.yang (planned)	org.opendaylight. neutron.model
Neutron yangmodel update	various update of neutron yang model	N/A	N/A	Provisional (planned)	neutron-*.yang(planned)	org.opendaylight. neutron.model
Neutron utils	helper functions	N/A	N/A	tentative (planned)		org.opendaylight. neutron.utils (planned)
Neutron hostconfig ovsdb	helper functions for hostconfig with ovsdb	N/A	N/A	tentative (planned)		org.opendaylight. neutron. hostconfig.ovsdb (planned)
Neutron hostconfig vpp	helper functions for hostconfig with vpp	N/A	N/A	tentative (planned)		org.opendaylight. neutron. hostconfig.vpp (planned)

· Depends on all other projects in Boron

Neutorn northbound project depends on the projects, odlparent, controller, md-sal, yangtools. But there is no new dependencies in Carbon.

Providing Project	Description
controller	basic controller features
mdsal	mdsal features
odlparent	odlparent values
yangtools	yangtools for compiling yang
ovsdb(and netvirt?)	ovsdb network topology
netconf	odl-netconf-clustered-topology

Expected Incompatibilities with Other Projects

new member as project id for tenant id. In Carbon cycle, tenant-id will be kept for compatibility. In Nitrogen cycle or later, project-id may be deprecated.

https://wiki.opendaylight.org/view/Weather#Neutron_Northbound:_rename_tenant-id_to_project-id

Top-level or User-facing Karaf Features

- odl-neutron-service (Top Level, User Facing)
 - O This feature provides the complete neutron northbound service

Planned Documentation

- User/Operator Guide for odl-neutron-service feature
- Developer Guides for odl-neutron-service features

Compatibility with Previous Releases

• None intrinsic to distribution, projects delivered may have their own.

Themes and Priorities

- · carry over from Boron cycles
 - o neutron HA support
 - support port binding well(hostconfig)
- status report from ODL to networking-odl
- TRUNK API
- FWaaS v2 API
- QoS API update
- · various model update to catch up neutron change

Requests from Other Projects

The following projects requested dependency on Neutorn Northbound

NetVirt

The followings are copied from Boron cycles.

- GBP
- Netvirt
- VPNService
- VTN

Test Tools Requirements

- NN will be requesting a System Test exemption
- NN system test cases are already included in the integration/test project tests that run as part of all jenkins jobs.

Other