

OVSDB:Boron Release Notes

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Major Features

Boron release is the fifth release of the OVSDB project. The main focus for this release was to provide the features and improvement that is expected from any production level device plugin. Following are the few main features that OVSDB project delivered in its Boron release

Release Deliverables

- Performance and scalability improvements
- Migrated from Config Subsystem to Blueprints. It will help with the upgrade of the plugin from Beryllium to Boron.
- Reconciliation of user stored configuration on switch disconnection or controller reboot.
- Improvement in device connection management
- Docker-based integration system environment
- Support for auto attach table and index (Interface table)
- Support for Interface Bidirectional Forwarding Detection (BFD).
- Improvement in OVSDB Qos and Queue support
- Code quality, stability and usability
- Logging improvements

Target Environment

For Execution

Same as the usual JRE requirements for OpenDaylight (JDK 1.8)

For Development

Same as the usual JDK and Maven requirements for OpenDaylight (JDK 1.8, Maven 3.3.9)

Known Issues and Limitations

- Hardware Vtep currently doesn't support full reconciliation. It only supports connection reconciliation only.
- Support for auto attaches table is currently experimental.

Changes Since Previous Releases

There is no change in the existing API's from Beryllium release. There are additional APIs added to support new features Auto-Attach: <https://git.opendaylight.org/gerrit/#/c/33860/13/southbound/southbound-api/src/main/yang/ovsdb.yang> Index (Interface table) : <https://git.opendaylight.org/gerrit/#/c/39801/10/southbound/southbound-api/src/main/yang/ovsdb.yang> Interface BFD: <https://git.opendaylight.org/gerrit/#/c/36062/2/southbound/southbound-api/src/main/yang/ovsdb.yang> Qos Improvements: <https://git.opendaylight.org/gerrit/#/c/36772/11/southbound/southbound-api/src/main/yang/ovsdb.yang>

Bugs Fixed in this Release

6505 blueprint managed-property is not reading the .cfg file during the reboot.
 6472 JsonRpcEndpoint Reaper Thread's daemon property is not set\n
 6475 A tons of unnecessary read operations in the switch update processing control flow
 6463 Monitoring _version column on the ovssdb table is generating huge updates from switch.
 6454 ProcUtils stdout should be grouped together
 6332 Conflicting modification for path ... topology-id=ovssdb:1
 5951 Termination point config reconciliation
 6352 [SR3] RPC timeout in JsonRPCEndpoint is not configurable
 6284 Cancellation exceptions
 6304 Regression in Connection reconciliation functionality
 6185 southbound system tests failing when run with all other compatible OpenDaylight features.
 6136 Southbound plugin throws IllegalStateException when add bridge config via POST
 6157 potential memory leak in JsonRpcEndpoint
 6130 Creates and updates to QoS and Queue entries processed incorrectly
 4790 'ifindex' column from Interface table on OVS
 5945 OVS and ietf interface holds tunnel information even after ITM is deleted via REST.
 5746 Enhance QoS in OVSSDB southbound plugin
 6103 Cannot create QOS entry when OVS instance is the connection initiator
 5178 ovs node removed from operational after partitioned from network and a config is made
 5721 br-int not created in clustered setup
 5976 thread leak when connecting/disconnecting ovs nodes in a loop
 5992 GBP + SFC integration is broken
 2714 OVSSDB needs to be more proactive in reporting errors with underlying OVS instances
 5944 Looping INFO messages for UNSUPPORTED AutoAttach OVS
 5885 Updates to OVSSDB node fail on passively connected nodes
 5769 unable to connect ovs to plugin
 5506 OVSSDB server doesn't close connection after peer is power down
 5479 OVSSDB HWVtep Southbound doesn't retry connection
 5737 Enable Maven site support
 5177 bridge not created if it's configured northbound while ovs node is disconnected
 5764 Hwvtep tunnel updates and deletes sporadically fail to reflect in Operational DataStore
 5876 Connection listener get notified before SSL handshake is done
 5174 Enhancement: Implement AutoAttach Table
 5542 Southbound plugin doesn't allow controller initiated re-connection
 5809 OVSSDB Distribution Test Failures Beryllium SR2
 5245 Inconsistent behaviour for sudo ovs-vsctl show
 4644 Termination Point (Gre Interface) not getting removed from the switch.
 5556 plugin is not able to delete local mcast mac entry from operational ds
 5651 southbound-impl failed to find utils.yang-utils in Boron
 5221 passive connection not reconnected if ovs service is restarted
 4996 Wrong flows when using SFC coexistence
 5648 QoS and Queues not removed from operational after delete when using OVS 2.5 docker image
 5549 HWVTEP exception when connecting to older devices
 5514 Mcast entries not added correctly
 5480 ovssdb southbound does not support configuring bfd parameters
 5477 CandidateAlreadyRegisteredException in Cluster environment
 5392 Configuring HwVTEP Tunnel Table BFD Parameters from northbound is not persisted on the switch
 5399 Populating tunnels list in physical switch table is not updating topology operational DS
 5008 QoS and Queue fixes for ovssdb southbound

Migration from Previous Releases

OpenStack Network Virtualization (widely known as '**NetVirt**') was part of the OVSSDB project prior to the Boron release. Given it's wider scope, this functionality was moved to its own new project (named 'netvirt'). For more details about this migration, please refer to the [netvirt projects page](#).

Compatibility with Previous Releases

Yes, compatible with previous releases.

Deprecated, End of Life, and/or Retired Features/APIs

- Old OVSSDB QoS and Queue models were deprecated in the Boron release and new models were introduced. This [yang file](#) contains details of the deprecated model (look for 'status deprecated') and newly introduced models as well.