Introduction

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

Trello

The Trello is at [1].

Release Deliverables

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

Release Milestones

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Offset 2 Date</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>1/8/2015</td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intent to participate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Project Lead elected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test Contact specified</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Candidate Release Plan</td>
</tr>
</tbody>
</table>
### Release Plan

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Release Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Checklist completed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OpenDaylight CI</td>
<td></td>
<td>OpenDaylight CI infrastructure usage for system test</td>
</tr>
<tr>
<td>Rackspace Test Tools Installation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Functionality Freeze

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Facing Features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gerrit 18486 Gerrit 20328</td>
<td></td>
<td>Gerrit 18486 Gerrit 20328</td>
</tr>
</tbody>
</table>

### Code Freeze

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability branch</td>
<td></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>All externally visible strings frozen to allow for translation &amp; documentation</td>
<td></td>
<td>All externally visible strings frozen to allow for translation &amp; documentation</td>
</tr>
<tr>
<td>Only editing and enhancing should take place after this point.</td>
<td></td>
<td>Only editing and enhancing should take place after this point.</td>
</tr>
</tbody>
</table>

### Bugfix & more

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bugfixing, samples</td>
<td></td>
<td>Bugfixing, samples</td>
</tr>
</tbody>
</table>

### Release Review

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Review</td>
<td></td>
<td>Release Review</td>
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</tbody>
</table>

### Release Candidate 3

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blocking Bugs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Externally Consumable APIs

<table>
<thead>
<tr>
<th>Artefact</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OvsdbInventoryListener</td>
<td>Stable</td>
<td>Existing APIs to perform OVSDB crud operations</td>
</tr>
<tr>
<td>Southbound</td>
<td>Tentative</td>
<td>MD-SAL OVSDB crud operations</td>
</tr>
</tbody>
</table>

## Expected Dependencies on Other Projects

<table>
<thead>
<tr>
<th>Providing Project</th>
<th>Deliverable Name</th>
<th>Needed By</th>
<th>Acknowledged?</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>controller</td>
<td>features</td>
<td>M3</td>
<td>No</td>
<td>basic controller features</td>
</tr>
<tr>
<td>odpParent</td>
<td>features</td>
<td>M3</td>
<td>No</td>
<td>odpParent values</td>
</tr>
<tr>
<td>OpenFlowPlugin</td>
<td>features</td>
<td>M3</td>
<td>No</td>
<td>flow programming and extensions</td>
</tr>
<tr>
<td>YangTools</td>
<td>features</td>
<td>M3</td>
<td>No</td>
<td>yangtools for compiling yang</td>
</tr>
</tbody>
</table>

## 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 deprecated depending on the outcome of the AD-SAL deprecation. The APIs currently use some AD-SAI dependencies.

### Changed APIs and/or Functionality

## Themes and Priorities

- Increasing unit and integration test coverage to improve code quality
Requests from Other Projects

Active Requests

- **Requesting Project:** VPN Service
  - **Providing Project:** OVSDB
  - **Requested Deliverable Name:** OVSDB 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:** OVSDB
  - **Requested Deliverable Name:** OVSDB 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 OVSDB plugin OVSDBInventoryListener 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:** OVSDB
  - **Requested Deliverable Name:** MD-SAL OVSDB
  - **Needed Milestone:** M2
  - **Requested Deliverable Description:** Working MD-SAL OVSDB 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:**

  - **Providing Project:** OVSDB
  - **Requested Deliverable Name:** MD-SAL OVSDB
  - **Needed Milestone:** M2
  - **Requested Deliverable Description:** Working MD-SAL OVSDB 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 OVSDB’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 jib and sandbox is all that will be needed in terms of infrastructure to have automated tests on OVSDB functionality in Lithium. The plan will utilize VMs of the label 'dynamic_devstack'.

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