Enhancements to Data Models

This section provides an overview of the enhancements made to data models.

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Install Label in oc-platform Data Model

The openconfig-platform (oc-platform.yang) data model is enhanced to provide the following data:

- IOS XR software version (optionally with GISO label)
- Type, description, operational status of the component. For example, a CPU component reports its utilization, temperature or other physical properties.
- List of the committed IOS XR packages

To retrieve oc-platform information from a router via NETCONF, ensure you configured the router with the SH server and management interface:

```
Router#show run
Building configuration...
!! IOS XR Configuration version = 7.3.2
!! Last configuration change at Tue Sep  7 16:18:14 2016 by USER1
!
......
......
netconf-yang agent ssh
ssh server netconf vrf default
interface MgmtEth 0/RP0/CPU0/0
    no shut
    ipv4 address dhcp
```

The following example shows the enhanced `OPERATING_SYSTEM` node component (line card or route processor) of the oc-platform data model:

```
<component>
<name>IOSXR-NODE 0/RP0/CPU0</name>
<config>
<name>0/RP0/CPU0</name>
</config>
<state>
<name>0/RP0/CPU0</name>
<type xmlns:idx="http://openconfig.net/yang/platform-types">idx:OPERATING_SYSTEM</type>
<location>0/RP0/CPU0</location>
<description>IOS XR Operating System</description>
```

```
<software-version>7.3.2</software-version> ----------------------> Label Info
<removable>true</removable>
<oper-status xmlns:idx="http://openconfig.net/yang/platform-types">idx:ACTIVE</oper-status>
</state>
<subcomponents>
 <subcomponent>
  <name><platform>-af-ea-7.3.2v1.0.0.1</name>
  <config>
   <name><platform>-af-ea-7.3.2v1.0.0.1</name>
  </config>
  <state>
   <name><platform>-af-ea-7.3.2v1.0.0.1</name>
  </state>
 </subcomponent>
...
```

The following example shows the enhanced `OPERATING_SYSTEM_UPDATE` package component (RPMs) of the oc-platform data model:

```
<component>
<name>IOSXR-PKG/1 <platform>-isis-2.1.0.0-r732</name>
<config>
<name><platform>-isis-2.1.0.0-r732</name>
</config>
<state>
<name><platform>-isis-2.1.0.0-r732</name>
<type xmlns:idx="http://openconfig.net/yang/platform-types">idx:OPERATING_SYSTEM_UPDATE</type>
<description>IOS XR Operating System Update</description>
<software-version>7.3.2</software-version>----------------------> Label Info
<removable>true</removable>
<oper-status xmlns:idx="http://openconfig.net/yang/platform-types">idx:ACTIVE</oper-status>
</state>
</component>
```

Associated Commands

- **show install committed**—Shows the committed IOS XR packages.
- **show install committed summary**—Shows a summary of the committed packages along with the committed IOS XR version that is displayed as a label.