



@ FILE NAME: Slot_Switch.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for LPRU: v1.0.16

Test Description : This test validates that the O-RU can successfully perform a software update procedure.

```
=====
ethtool enp3s0
=====
```

```
Settings for enp3s0:
Supported ports: [ FIBRE ]
Supported link modes: 10000baseT/Full
Supported pause frame use: Symmetric
Supports auto-negotiation: No
Supported FEC modes: Not reported
Advertised link modes: 10000baseT/Full
Advertised pause frame use: Symmetric
Advertised auto-negotiation: No
Advertised FEC modes: Not reported
Speed: 10000Mb/s
Duplex: Full
Port: FIBRE
PHYAD: 0
Transceiver: internal
Auto-negotiation: off
Supports Wake-on: d
Wake-on: d
Current message level: 0x00000007 (7)
    drv probe link
Link detected: yes
=====
```

```
=====
ping -c 5 192.168.215.37
=====
```

```
PING 192.168.215.37 (192.168.215.37) 56(84) bytes of data.
64 bytes from 192.168.215.37: icmp_seq=1 ttl=64 time=0.061 ms
64 bytes from 192.168.215.37: icmp_seq=2 ttl=64 time=0.139 ms
64 bytes from 192.168.215.37: icmp_seq=3 ttl=64 time=0.149 ms
64 bytes from 192.168.215.37: icmp_seq=4 ttl=64 time=0.157 ms
64 bytes from 192.168.215.37: icmp_seq=5 ttl=64 time=0.131 ms
```

```
--- 192.168.215.37 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4055ms
rtt min/avg/max/mdev = 0.061/0.127/0.157/0.035 ms
=====
```

***** **Connect to the NETCONF Server** *****

```
=====
> listen --ssh --login operator
    Waiting 60s for an SSH Call Home connection on port 4334...
    The authenticity of the host '::ffff:192.168.215.37' cannot be established.
    ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83
=====
```

Interactive SSH Authentication done.

> status

Current NETCONF session:

ID : 2

Host : 192.168.215.37

Port : 830

Transport : SSH

Capabilities:

urn:ietf:params:netconf:base:1.0 urn:ietf:params:netconf:base:1.1 urn:ietf:params:netconf:capability:writable-running:1.0
urn:ietf:params:netconf:capability:candidate:1.0 urn:ietf:params:netconf:capability:rollback-on-error:1.0
urn:ietf:params:netconf:capability:validate:1.1 urn:ietf:params:netconf:capability:startup:1.0 urn:ietf:params:netconf:capability:xpath:1.0
urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit
urn:ietf:params:netconf:capability:notification:1.0 urn:ietf:params:netconf:capability:interleave:1.0
urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05
urn:ietf:params:xml:ns:yang:1?module=yang&revision=2017-02-20
urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15
urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15
urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=61
urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10
urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14
urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,valid
ate,startup,url,xpath urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults?module=ietf-netconf-with-defaults&revision=2011-06-01
urn:ietf:params:xml:ns:yang:ietf-netconf-notifications?module=ietf-netconf-notifications&revision=2012-02-06
urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring?module=ietf-netconf-monitoring&revision=2010-10-04
urn:ietf:params:xml:ns:netconf:notification:1.0?module=notifications&revision=2008-07-14
urn:ietf:params:xml:ns:netmod:notification?module=nc-notifications&revision=2008-07-14
urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name?module=ietf-x509-cert-to-name&revision=2014-12-10
urn:ietf:params:xml:ns:yang:iana-crypt-hash?module=iana-crypt-hash&revision=2014-08-06 urn:notification_history?module=notification_history
urn:ietf:params:xml:ns:yang:iana-if-type?module=iana-if-type&revision=2017-01-19

=====

> **subscribe --filter-xpath /o-ran-software-management:***

=====

Ok

Initial Get Filter

> get --filter-xpath /o-ran-software-management:software-inventory

```
<?xml version="1.0" ?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <software-inventory xmlns="urn:o-ran:software-management:1.0">
    <software-slot>
      <name>swSlot1</name>
      <status>VALID</status>
      <active>false</active>
      <running>false</running>
      <access>READ_WRITE</access>
      <product-code>VVDN=O-RU</product-code>
      <vendor-code>VN</vendor-code>
      <build-id>factory_img</build-id>
      <build-name>Beta Release</build-name>
      <build-version>1.0.7</build-version>
      <files>
        <name>boot</name>
        <version>1.0.0</version>
        <local-path>/media/sd-mmcb1k0p1/BOOT0001.BIN</local-path>
        <integrity>OK</integrity>
      </files>
      <files>
        <name>kernel</name>
        <version>1.0.0</version>
        <local-path>/media/sd-mmcb1k0p1/image0001.ub</local-path>
        <integrity>OK</integrity>
      </files>
      <files>
        <name>rootfs</name>
        <version>1.0.0</version>
        <local-path>/media/sd-mmcb1k0p2/</local-path>
        <integrity>OK</integrity>
      </files>
    </software-slot>
    <software-slot>
      <name>swSlot2</name>
      <status>VALID</status>
      <active>true</active>
      <running>true</running>
      <access>READ_WRITE</access>
      <product-code>VVDN O-RU</product-code>
```

```
<vendor-code>VN</vendor-code>
<build-id>90f0b6c</build-id>
<build-name>Beta Release</build-name>
<build-version>1.0.16</build-version>
<files>
  <name>boot</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcb1k0p1/BOOT0002.BIN</local-path>
  <integrity>OK</integrity>
</files>
<files>
  <name>kernel</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcb1k0p1/image0002.ub</local-path>
  <integrity>OK</integrity>
</files>
<files>
  <name>rootfs</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcb1k0p3/</local-path>
  <integrity>OK</integrity>
</files>
</software-slot>
<software-slot>
  <name>swRecoverySlot</name>
  <status>VALID</status>
  <active>false</active>
  <running>false</running>
  <access>READ_ONLY</access>
  <product-code>VVDN=O-RU</product-code>
  <vendor-code>VN</vendor-code>
  <build-id>factory_img</build-id>
  <build-name>Beta Release</build-name>
  <build-version>1.0.7</build-version>
  <files>
    <name>boot</name>
    <version>1.0.0</version>
    <local-path>/media/sd-mmcb1k0p1/BOOT0003.BIN</local-path>
    <integrity>OK</integrity>
  </files>
  <files>
    <name>kernel</name>
    <version>1.0.0</version>
    <local-path>/media/sd-mmcb1k0p1/golden.ub</local-path>
    <integrity>OK</integrity>
  </files>
  <files>
    <name>rootfs</name>
    <version>1.0.0</version>
```

```
<local-path>/media/sd-mmcbk0p1/golden.ub</local-path>
<integrity>OK</integrity>
</files>
</software-slot>
</software-inventory>
</data>
```

Step 1 : TER NETCONF Client triggers <rpc><software-download>

> user-rpc

***** Replace with below xml *****

```
<software-download xmlns="urn:o-ran:software-management:1.0">
<remote-file-path>sftp://sebu.mathew@192.168.215.82:22/home/sebu.mathew/QA_CICD/LPRU_CICD_img/VVDN_LPRU_v1.0.16.zip</remote-
file-path>
<password>
<password>vvdn@123</password>
</password>
<server>
<keys>
<algorithm>secp256r1</algorithm>
<public-key>AAAAB3NzaC1yc2EAAAADAQABAAQDKr9yVoc2uRc4t2SeTjIJ3qO8ZfOvFIJJoPrR3FirgWK/zPFmQ4ugzhCThzEyTB3
9d/1JM5Ns81gVsw53O6b72XMBST8StYfQKLWFCjQYvotyMPfolNu9JA2a8Hpun4cA7/LPDCOPOJW523x83XZMgKsiB4c7j1gmVCHLOV
ZmPLGhNcaVFXM8OvGM+m4XLnAXcyOfHh2K7IUB6Htt9igxvzigxXY9PDsnZTsTQlyARh2K2Sm/7vJZZY/fRM8TfZrCo6BsY+Ljl+Frd/p9Z
+mOgacsgfGkbXUbP6bl+wprxGhZ4Nn10k7KvIHf1anaD5wgQ2NNGL0GYLAveE5V3KyF</public-key>
</keys>
</server>
</software-download>
```

***** RPC Reply *****

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="urn:uuid:c279e84a-a40f-4d8d-8ad3-4f3163468b90"><status
xmlns="urn:o-ran:software-management:1.0">STARTED</status><notification-timeout
xmlns="urn:o-ran:software-management:1.0">30</notification-timeout></nc:rpc-reply>
```

=====

Step 2 : O-RU NETCONF Server sends <notification><download-event> with status COMPLETED to TER NETCONF Client

=====

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2000-11-04T00:17:07Z</eventTime>
  <download-event xmlns="urn:o-ran:software-management:1.0">
    <file-name>VVDN_LPRU_v1.0.16.zip</file-name>
    <status>COMPLETED</status>
  </download-event>
</notification>
```

=====

Step 3 : TER NETCONF Client triggers <rpc><software-install> Slot must have attributes active = FALSE, running = FALSE.

=====

=====

> user-rpc

=====

=====

******* Replace with below xml *******

=====

```
<software-install xmlns="urn:o-ran:software-management:1.0">
  <slot-name>swSlot1</slot-name>
  <file-names>/home/sebu.mathew/QA_CICD/LPRU_CICD_img/VVDN_LPRU_v1.0.16.zip</file-names>
</software-install>
```

=====

******* RPC Reply *******

=====

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="urn:uuid:08fa21aa-b66b-4a54-94ed-a222367ff478"><status
xmlns="urn:o-ran:software-management:1.0">STARTED</status></nc:rpc-reply>
```

=====

Step 4 and 5 : O-RU NETCONF Server sends <notification><install-event> with status COMPLETED to TER NETCONF Client

=====

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2000-11-04T00:17:15Z</eventTime>
  <install-event xmlns="urn:o-ran:software-management:1.0">
    <slot-name>swSlot1</slot-name>
    <status>APPLICATION_ERROR</status>
    <error-message>Given build already exists in slot 2
```

</error-message>

</install-event>

</notification>

=====

SYSTEM LOGS

=====

Nov 4 00:16:58 vvdn_lpru daemon.info netopeer2-server[859]: Trying to connect via IPv4 to 192.168.215.82:4334.

Nov 4 00:16:58 vvdn_lpru daemon.info netopeer2-server[859]: getsockopt() error (Connection refused).

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Trying to connect via IPv4 to 192.168.215.82:4334.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Successfully connected to 192.168.215.82:4334 over IPv4.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Session 83 (user "root", CID 1) created.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: User "operator" authenticated.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Call Home client "default-client" session 2 established.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Session 84 (user "root", CID 1) created.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Generated new event (netconf-session-start).

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Published event "rpc" "/ietf-netconf:get" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Processing "/ietf-netconf:get" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 2.

Nov 4 00:16:59 vvdn_lpru user.notice fw_manager[929]: RPC #2 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:16:59 vvdn_lpru user.notice SYNCMNGR[1175]: Received message from S-Plane

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Event "operational" with ID 2 succeeded.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Event "rpc" with ID 2 priority 0 succeeded.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:16:59 vvdn_lpru daemon.info netopeer2-server[859]: Session 2: thread 2 event new RPC.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Published event "rpc" "/notifications:create-subscription" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Processing "/notifications:create-subscription" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Session 2: thread 3 event new RPC.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Published event "rpc" "/ietf-netconf:get" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Processing "/ietf-netconf:get" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 3.

Nov 4 00:17:00 vvdn_lpru user.notice fw_manager[929]: RPC #3 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Event "operational" with ID 3 succeeded.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Event "rpc" with ID 3 priority 0 succeeded.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Session 2: thread 1 event new RPC.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Published event "rpc" "/o-ran-software-management:software-download" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:17:00 vvdn_lpru user.notice fw_manager[929]: RPC #1 recieved. xpath -> /o-ran-software-management:software-download

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:00 vvdn_lpru daemon.info netopeer2-server[859]: Session 2: thread 4 event new RPC.

Nov 4 00:17:06 vvdn_lpru user.notice fw_manager[929]: Function isDownloadCompleted setting error code 0

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "o-ran-software-management" event with ID 1.

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: Must condition "/software-inventory/software-slot[name = current()][active = 'false' and running = 'false']" not satisfied, but it is not required.

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:07 vvdn_lpru daemon.info netopeer2-server[859]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 4.

Nov 4 00:17:07 vvdn_lpru user.notice fw_manager[929]: RPC #4 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Event "operational" with ID 4 succeeded.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Published event "rpc" "/o-ran-software-management:software-install" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:17:08 vvdn_lpru user.notice fw_manager[929]: RPC #1 recieved. xpath -> /o-ran-software-management:software-install

Nov 4 00:17:08 vvdn_lpru user.notice fw_manager[929]: swSlot1 selected

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:08 vvdn_lpru daemon.info netopeer2-server[859]: Session 2: thread 3 event new RPC.

Nov 4 00:17:09 vvdn_lpru user.notice SYNCMNGR[1175]: Received message from S-Plane

Nov 4 00:17:15 vvdn_lpru user.err fw_manager[929]: swInstall failed :Reason: Given build already exists in slot 2

Nov 4 00:17:15 vvdn_lpru user.notice fw_manager[929]: RPC #5 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:17:15 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Source ID: 17

Nov 4 00:17:15 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Fault ID: 23

Nov 4 00:17:15 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_IS_CLEARED: FALSE

Nov 4 00:17:15 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_SEVERITY: 2

Nov 4 00:17:15 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_TIME: 2000-11-04T00:17:15Z

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no instance of "/notification_history:history/module-notification[module-name='Initialization Fault']", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no instance of "/notification_history:history/module-notification[module-name='Initialization Fault']/module-name", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no instance of "/notification_history:history/module-notification[module-name='Initialization Fault']/notif-error", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no instance of "/notification_history:history/module-notification[module-name='Initialization Fault']/alert", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no instance of "/notification_history:history/module-notification[module-name='Initialization Fault']/epochtime", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "ietf-netconf-notifications" event with ID 4.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 4 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "o-ran-fm" event with ID 1.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Resolving unresolved data nodes and their constraints...

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: There is no leafref "/software-inventory/software-slot/name" with the value "swSlot1", but it is not required.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: All data nodes and constraints resolved.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Processing "notif" "o-ran-software-management" event with ID 2.

Nov 4 00:17:15 vvdn_lpru daemon.info netopeer2-server[859]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:17:15 vvdn_lpru authpriv.debug sshd[14139]: pam_unix(sshd:account): account operator has password changed in future

Nov 4 00:17:15 vvdn_lpru auth.info sshd[14139]: Accepted password for operator from 192.168.215.82 port 46854 ssh2

Nov 4 00:17:15 vvdn_lpru authpriv.info sshd[14139]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : 1. The O-RU NETCONF Server sends

<notification><install-event><status> to the TER NETCONF Client. Field <status> contains the value COMPLETED to indicate the successful installation of software to the desired slot.

2. The status of the software slot used for software activation remains VALID (it is unchanged) and the parameter "active" remains "True". The parameter "running" is set to True.

3. Status of the software slot containing the previous version of software used by device remains VALID, the parameter "active" remains False. The parameter "running" is set to False.

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***** Actual Result *****

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***** FAIL_REASON *****

=====

APPLICATION_ERROR

=====

Software Update = FAIL

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***** Summary *****

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SFP Link Detection	Successful
DHCP IP 192.168.215.37 Ping	Successful
Netopeer Connection	Successful!!
Image Going to flash	1.0.7 to VVDN_LPRU_v1.0.16.zip
Capability exchange	Successful
Create-subscription	Successful!!

Software File Download	VVDN_LPRU_v1.0.16.zip Successful!!
FAIL_REASON	APPLICATION_ERROR
Software Update	FAIL