



@ FILE NAME: Firmware_Upgrade.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for LPRU: v5.0.4

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



****** 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:192.168.4.56' 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 : 4

Host : 192.168.4.56

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

 $urn: ietf: params: netconf: capability: candidate: 1.0 \ urn: ietf: params: netconf: capability: rollback-on-error: 1.0 \ urn: ietf: params: netconf: par$

 $urn: ietf: params: netconf: capability: validate: 1.1 \ urn: ietf: params: netconf: capability: startup: 1.0 \ urn: ietf: params: netconf: capability: xpath: 1.0 \ urn: ietf: params: netcon$

urn: ietf: params: netconf: capability: with-defaults: 1.0? basic-mode = explicit & also-supported = report-all, report-all-tagged, trim, explicit & also-supported = report-all-tagged, trim

 $urn: ietf: params: netconf: capability: notification: 1.0\ urn: ietf: params: netconf: capability: interleave: 1.0\ urn: ietf: params: netconf: params: netcon$

 $urn: ietf: params: xml: ns: yang: ietf-yang-metadata? module= ietf-yang-metadata \& revision = 2016-08-05 \\ ietf-yang-metadata = ietf-$

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 = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, rollback-on-error, with the properties of the properties = ietf-netconf & revision = 2013-09-29 & features = writable-running, rollback-on-error, rollback-on-e

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-net conf-notifications? module = ietf-net conf-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

 $urn:ietf:params:xml:ns:yang:iana-crypt-hash?module=iana-crypt-hash\&revision=2014-08-06 \ urn:notification_history?module=notification_histor$

urn: ietf: params: xml: ns: yang: iana-if-type? module = iana-if-type & revision = 2017-01-19

> subscribe

Ok



Initial Get Filter

<?xml version="1.0" ?>

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

```
<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>true</active>
 <running>true</running>
 <access>READ_WRITE</access>
 cproduct-code>STL O-RU/product-code>
 <vendor-code>VN</vendor-code>
 <build-id>90f0b6c</build-id>
 <build-name>Beta Release</build-name>
 <build-version>5.0.4</build-version>
 <files>
  <name>boot</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcblk0p1/BOOT0001.BIN</local-path>
  <integrity>OK</integrity>
 </files>
 <files>
  <name>kernel</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcblk0p1/image0001.ub</local-path>
  <integrity>OK</integrity>
 </files>
 <files>
  <name>rootfs</name>
  <version>1.0.0</version>
  <local-path>/media/sd-mmcblk0p2/</local-path>
  <integrity>OK</integrity>
 </files>
 </software-slot>
<software-slot>
 <name>swSlot2</name>
 <status>VALID</status>
 <active>false</active>
 <running>false</running>
```

<access>READ_WRITE</access>

cproduct-code>VVDN O-RU



<vendor-code>VN</vendor-code> <build-id>90f0b6c</build-id> <build-name>Beta Release</build-name> <build-version>1.0.14</build-version> <files> <name>boot</name> <version>1.0.0</version> <local-path>/media/sd-mmcblk0p1/BOOT0002.BIN</local-path> <integrity>OK</integrity> </files> <files> <name>kernel</name> <version>1.0.0</version> <local-path>/media/sd-mmcblk0p1/image0002.ub</local-path> <integrity>OK</integrity> </files> <files> <name>rootfs</name> <version>1.0.0</version> <local-path>/media/sd-mmcblk0p3/</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> cproduct-code>VVDN=O-RU <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-mmcblk0p1/BOOT0003.BIN</local-path> <integrity>OK</integrity> </files> <files> <name>kernel</name> <version>1.0.0</version> <local-path>/media/sd-mmcblk0p1/golden.ub</local-path> <integrity>OK</integrity> </files> <files> <name>rootfs</name> <version>1.0.0</version>



<local-path>/media/sd-mmcblk0p1/golden.ub</local-path>
<integrity>OK</integrity>
Step 1 : TER NETCONF Client triggers <rpc><software-download></software-download></rpc>
> user-rpc
****** Replace with below xml *******
<software-download xmlns="urn:o-ran:software-management:1.0"></software-download>
$< remote-file-path>sftp://vvdn@192.168.4.15:22/home/vvdn/Videos/ORAN-Automation/CI_CD/LOGS/LPRU/Firmware_Upgrade_12_40_23_2_22/2009/2009/2009/2009/2009/2009/2009$
_2023.pdf
<pre><password></password></pre>
<pre><password>vvdntech</password></pre>
<server></server>
<keys></keys>
<algorithm>secp256r1</algorithm>
< public-key>AAAAB3NzaC1yc2EAAAADAQABAAABAQC0EVfAv8Ml4ZsCWkGxxv36AwuOewJuHXxsiJDNYet2n02N9cbZgifa+Lt0ni4dGarden for the compact of the comp
jERFEq2YZCnaX4cuFnsLq8bUjBAuy0hyU2ACb5FohzIbZnMW4cUGkkFu453vTMA/SIZU47wK7Q5HbrTcJefuDkIUwPb+tnP7iT9T7YMx4c6445445445445444544445444444444444444
2h6I9O/wt2hq8RMAC8PT1JAeVebylIrKbcI5g3N2NI6D8OGD0Coick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF0C+Oick7iczIlor/9ylshjdiaA0xioxioxioxioxioxioxioxioxioxioxioxioxiox
C7FhIf1O7jDoYXvZUlQa90c0EG4O962JB3SYxWchl4gYxmr6zAtu3TT4j
======================================
<nc:rpc-reply message-id="urn:uuid:a717ed98-6b1d-4b9c-b836-b84a35539831" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><status< td=""></status<></nc:rpc-reply>
xmlns="urn:o-ran:software-management:1.0">STARTED <notification-timeout< td=""></notification-timeout<>
xmlns="urn:o-ran:software-management:1.0">30



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>2103-04-12T16:41:15Z</eventTime> <download-event xmlns="urn:o-ran:software-management:1.0"> <file-name>Firmware_Upgrade_12_40_23_2_2_2023.pdf</file-name> <status>COMPLETED</status> </download-event> </notification> > user-rpc ****** Replace with below xml ****** <software-install xmlns="urn:o-ran:software-management:1.0"> <slot-name>swSlot2</slot-name> <file-names>/home/vvdn/Videos/ORAN-Automation/CI_CD/LOGS/LPRU/Firmware_Upgrade_12_40_23_2_2_2023.pdf</file-names> </software-install> ***** RPC Reply ****** _____ <nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="urn:uuid:c2999ad7-8f3e-42c4-88f1-d498d447fc28"><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>2103-04-12T16:41:15Z</eventTime> <install-event xmlns="urn:o-ran:software-management:1.0"> <slot-name>swSlot2</slot-name> <status>FILE_ERROR</status> <error-message>unzip failed/error-message>

</install-event>
</notification>



- Apr 12 16:41:06 garuda daemon.info netopeer2-server[860]: Trying to connect via IPv4 to 192.168.4.15:4334.
- Apr 12 16:41:06 garuda daemon.info netopeer2-server[860]: getsockopt() error (Connection refused).
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Trying to connect via IPv4 to 192.168.4.15:4334.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Successfully connected to 192.168.4.15:4334 over IPv4.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Session 125 (user "root", CID 1) created.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Received an SSH message "request-service" of subtype "ssh-userauth".
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Received an SSH message "request-auth" of subtype "password".
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: User "operator" authenticated.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Received an SSH message "request-channel-open" of subtype "session".
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Received an SSH message "request-channel" of subtype "subsystem".
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Call Home client "default-client" session 4 established.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Session 126 (user "root", CID 1) created.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: There are no subscribers for "ietf-netconf-notifications" notifications.
- Apr 12 16:41:07 garuda daemon.info netopeer2-server[860]: Generated new event (netconf-session-start).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/ietf-netconf:get" with ID 8 priority 0 for 1 subscribers.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Processing "/ietf-netconf:get" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 8 priority 0 succeeded.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Session 4: thread 2 event new RPC.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/ietf-netconf:get" with ID 9 priority 0 for 1 subscribers.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Processing "/ietf-netconf:get" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 10.
- Apr 12 16:41:08 garuda user.notice fw_manager[930]: RPC #10 recieved. xpath -> /o-ran-software-management:software-inventory
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Event "operational" with ID 10 succeeded.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: There is no leafref
- "/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL O-RU", but it is not required.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: 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.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: There is no leafref
- $"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code"\ with\ the\ value\ "VVDN=O-RU",\ but\ it\ is\ not\ required.$
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 9 priority 0 succeeded.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...



- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: There is no leafref
- "/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL O-RU", but it is not required.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: 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.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: 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.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Session 4: thread 2 event new RPC.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/ietf-netconf:get-config" with ID 3 priority 0 for 1 subscribers.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Processing "/ietf-netconf:get-config" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 3 priority 0 succeeded.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Session 4: thread 3 event new RPC.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/notifications:create-subscription" with ID 3 priority 0 for 1 subscribers.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Processing "/notifications:create-subscription" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 3 priority 0 succeeded.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Session 4: thread 2 event new RPC.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- $Apr\ 12\ 16:41:08\ garuda\ daemon. info\ net opeer 2-server [860]:\ Published\ event\ "rpc"\ "/ietf-net conf: get"\ with\ ID\ 10\ priority\ 0\ for\ 1\ subscribers.$
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Processing "/ietf-netconf:get" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).
- Apr 12 16:41:08 garuda daemon.info netopeer2-server[860]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 11.
- Apr 12 16:41:08 garuda user.notice fw_manager[930]: RPC #11 recieved. xpath -> /o-ran-software-management:software-inventory
- Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Event "operational" with ID 11 succeeded.
- Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: There is no leafref
- "/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL O-RU", but it is not required.
- Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: 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.



Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: 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.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 10 priority 0 succeeded.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL O-RU", but it is not required.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: 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.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: 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.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Session 4: thread 0 event new RPC.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/o-ran-software-management:software-download" with ID 3 priority 0 for 1 subscribers.

Apr 12 16:41:09 garuda user.notice fw_manager[930]: RPC #3 recieved. xpath -> /o-ran-software-management:software-download

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 3 priority 0 succeeded.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:09 garuda daemon.info netopeer2-server[860]: Session 4: thread 2 event new RPC.

Apr 12 16:41:15 garuda user.notice fw_manager[930]: Function isDownloadCompleted setting error code 0

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Processing "notif" "o-ran-software-management" event with ID 1.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Must condition "/software-inventory/software-slot[name = current()][active = 'false' and running = 'false']" not satisfied, but it is not required.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 12.

Apr 12 16:41:15 garuda user.notice fw_manager[930]: RPC #12 recieved. xpath -> /o-ran-software-management:software-inventory

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Event "operational" with ID 12 succeeded.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL O-RU", but it is not required.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: 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.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: 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.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.

Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Published event "rpc" "/o-ran-software-management:software-install" with ID 3



1	orio	ritv	()	tor	-	SII	bscri	bers

- Apr 12 16:41:15 garuda user.notice fw_manager[930]: RPC #3 recieved. xpath -> /o-ran-software-management:software-install
- Apr 12 16:41:15 garuda user.notice fw_manager[930]: swSlot2 selected
- Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Event "rpc" with ID 3 priority 0 succeeded.
- Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:15 garuda daemon.info netopeer2-server[860]: Session 4: thread 0 event new RPC.
- Apr 12 16:41:15 garuda user.err fw_manager[930]: swInstall : Unzip failed with code 256
- Apr 12 16:41:15 garuda user.err fw_manager[930]: swInstall failed :Reason: unzip failed
- Apr 12 16:41:15 garuda user.notice fw_manager[930]: RPC #13 recieved. xpath -> /o-ran-software-management:software-inventory
- Apr 12 16:41:16 garuda daemon.info netopeer2-server[860]: Resolving unresolved data nodes and their constraints...
- Apr 12 16:41:16 garuda daemon.info netopeer2-server[860]: There is no leafref "/software-inventory/software-slot/name" with the value "swSlot2", but it is not required.
- Apr 12 16:41:16 garuda daemon.info netopeer2-server[860]: All data nodes and constraints resolved.
- Apr 12 16:41:16 garuda daemon.info netopeer2-server[860]: Processing "notif" "o-ran-software-management" event with ID 2.
- Apr 12 16:41:16 garuda daemon.info netopeer2-server[860]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).
- Apr 12 16:41:17 garuda auth.info sshd[11335]: Accepted password for operator from 192.168.4.15 port 40412 ssh2
- Apr 12 16:41:17 garuda authpriv.info sshd[11335]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result: 1. 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.	

2. 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.

************* Actual Result ************************************
======================================
FILE_ERROR
Supplemental Reset after Software Activation = FAIL