@ FILE NAME: M_CTC_ID_036.txt

@ TEST SCOPE: M PLANE O-RAN FUNCTIONAL

@ Software Release for garuda: v5.0.2

Test Description : Software Download Managment when the file system shows

PROTOCOL_ERROR.

==

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

==

> connect --ssh --host 192.168.4.65 --port 830 --login operator

Interactive SSH Authentication

Type your password:

Password:

> status

Current NETCONF session:

ID   : 4

Host   : 192.168.4.65

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**
==

Ok

===

Initial Get Filter

===

===

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

```xml
<?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>true</active>
   <running>true</running>
   <access>READ_WRITE</access>
   <product-code>STL O-RU</product-code>
   <vendor-code>VN</vendor-code>
   <build-id>90f0b6c</build-id>
   <build-name>Beta Release</build-name>
   <build-version>5.0.2</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>EMPTY</status>
   <active>false</active>
   <running>false</running>
   <access>READ_WRITE</access>
   <product-code/>
```

```xml
<build-id/>
<build-name/>
<build-version/>
<files>
 <name>boot</name>
 <version/>
 <local-path>/media/sd-mmcblk0p1/BOOT0002.BIN</local-path>
 <integrity>NOK</integrity>
</files>
<files>
 <name>kernel</name>
 <version/>
 <local-path>/media/sd-mmcblk0p1/image0002.ub</local-path>
 <integrity>NOK</integrity>
</files>
<files>
 <name>rootfs</name>
 <version/>
 <local-path>/media/sd-mmcblk0p3/</local-path>
 <integrity>NOK</integrity>
</files>
</software-slot>
<software-slot>
 <name>swRecoverySlot</name>
 <status>VALID</status>
 <active>false</active>
 <running>false</running>
 <access>READ_ONLY</access>
 <product-code>STL=O-RU</product-code>
 <vendor-code>VN</vendor-code>
 <build-id>factory_img</build-id>
 <build-name>Beta Release</build-name>
 <build-version>1.3.4</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>
  </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>fftp://vvdn@192.168.4.15:22/home/vvdn/Documents/B1/O-RAN-WG4.CUS.0-v07.00.pdf</remote-file-path>
<password>
<password>vvdntech</password>
</password>
<server>
<keys>
<algorithm>secp256r1</algorithm>
<public-key>AAAAB3NzaC1yc2EAAAADAQABAAABAQC0EVfAv8Ml4ZsCWkGxxv36AwuOewJuHXxsiJDNYet2n02N9cbZgifa+Lt0ni4dG
jERFEq2YZCnaX4cuFnsLq8bUjBAuy0hyU2ACb5FohzIbZnMW4cUGkkFu453vTMA/SIZU47wK7Q5HbrTcJefuDkIUwPb+tnP7iT9T7YMx4c6
2h6I9O/wt2hq8RMAC8PT1JAeVebylIrKbcI5g3N2NI6D8OGD0Coick7iczIlor/9ylshjdgiQdi8Bxnq9NhzD0zA2WvQI9eytlvut/uA6KWaiwF9C+O
C7FhIf1O7jDoYXvZUlQa90c0EG4O962JB3SYxWchl4gYxmr6zAtu3TT4j</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:94e2342d-7f2e-458c-9d92-293dd5dc0036"><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> with PROTOCOL_ERROR
===

```xml
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2105-12-20T15:19:49Z</eventTime>
 <download-event xmlns="urn:o-ran:software-management:1.0">
  <file-name>FILE_NOT_PROCESSED</file-name>
  <status>PROTOCOL_ERROR</status>
  <error-message>sw download performed using sftp only</error-message>
 </download-event>
</notification>
```

```
================================================================================
   ############ SYSTEM LOGS #############
================================================================================
```

Dec 20 15:19:46 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:46 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:46 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:46 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:47 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:47 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:47 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:47 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:47 garuda user.notice SYNCMNGR[1175]: Received message from S-Plane

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Successfully connected to 192.168.4.15:4334 over IPv4.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Session 389 (user "root", CID 1) created.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Received an SSH message "request-service" of subtype "ssh-userauth".

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Received an SSH message "request-auth" of subtype "password".

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: User "operator" authenticated.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Received an SSH message "request-channel-open" of subtype "session".

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Received an SSH message "request-channel" of subtype "subsystem".

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Call Home client "default-client" session 4 established.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Session 390 (user "root", CID 1) created.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There are no subscribers for "ietf-netconf-notifications" notifications.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Generated new event (netconf-session-start).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/ietf-netconf:get" with ID 10 priority 0 for 1 subscribers.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Processing "/ietf-netconf:get" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 10 priority 0 succeeded.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Session 4: thread 3 event new RPC.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/ietf-netconf:get" with ID 11 priority 0 for 1 subscribers.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Processing "/ietf-netconf:get" "rpc" event with ID 11 priority 0 (remaining 1 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port0", but it is not required.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port0", but it is not required.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 7.

Dec 20 15:19:48 garuda user.notice fw_manager[929]: RPC #7 recieved. xpath -> /o-ran-software-management:software-inventory

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Event "operational" with ID 7 succeeded.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

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

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Successful processing of "rpc" event with ID 11 priority 0 (remaining 0 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 11 priority 0 succeeded.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

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

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Session 4: thread 1 event new RPC.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/ietf-netconf:get-config" with ID 4 priority 0 for 1 subscribers.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Processing "/ietf-netconf:get-config" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 4 priority 0 succeeded.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port0", but it is not required.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port0", but it is not required.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Session 4: thread 4 event new RPC.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/notifications:create-subscription" with ID 4 priority 0 for 1 subscribers.

Dec 20 15:19:48 garuda daemon.info netopeer2-server[852]: Processing "/notifications:create-subscription" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 4 priority 0 succeeded.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Session 4: thread 1 event new RPC.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/ietf-netconf:get" with ID 12 priority 0 for 1 subscribers.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Processing "/ietf-netconf:get" "rpc" event with ID 12 priority 0 (remaining 1 subscribers).

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 8.

Dec 20 15:19:49 garuda user.notice fw_manager[929]: RPC #8 recieved. xpath -> /o-ran-software-management:software-inventory

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Event "operational" with ID 8 succeeded.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: There is no leafref "/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "", but it is not required.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Successful processing of "rpc" event with ID 12 priority 0 (remaining 0 subscribers).

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 12 priority 0 succeeded.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: There is no leafref "/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "", but it is not required.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: 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.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Session 4: thread 1 event new RPC.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Published event "rpc" "/o-ran-software-management:software-download" with ID 4 priority 0 for 1 subscribers.

Dec 20 15:19:49 garuda user.notice fw_manager[929]: RPC #4 recieved. xpath -> /o-ran-software-management:software-download

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Event "rpc" with ID 4 priority 0 succeeded.

Dec 20 15:19:49 garuda user.err fw_manager[929]: swDownload failed :Reason: sw download performed using sftp only

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Session 4: thread 4 event new RPC.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Processing "notif" "o-ran-software-management" event with ID 1.

Dec 20 15:19:49 garuda daemon.info netopeer2-server[852]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Dec 20 15:19:50 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:50 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:51 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:51 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:52 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:52 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:52 garuda daemon.info dhclient: DHCPREQUEST for 192.168.4.65 on eth0 to 192.168.4.15 port 67

Dec 20 15:19:52 garuda daemon.info dhclient: DHCPACK of 192.168.4.65 from 192.168.4.15

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:53 garuda user.info nw_manager[881]: IFMNGR: EVENT change CHANGES: for module name: ietf-interfaces

Dec 20 15:19:53 garuda user.info nw_manager[881]: IFMNGR: EVENT done CHANGES: for module name: ietf-interfaces

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']/ip", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']/netmask", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Dec 20 15:19:53 garuda user.info nw_manager[881]: IFMNGR: EVENT change CHANGES: for module name: ietf-interfaces

Dec 20 15:19:53 garuda user.info nw_manager[881]: Interface : eth0 Netmask : 255.255.255.0

Dec 20 15:19:53 garuda user.info nw_manager[881]: IFMNGR: EVENT done CHANGES: for module name: ietf-interfaces

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Resolving unresolved data nodes and their constraints...

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']/ip", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: There is no instance of
"/ietf-interfaces:interfaces/interface[name='eth0']/ietf-ip:ipv4/address[ip='192.168.4.65']/netmask", but it is not required.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: All data nodes and constraints resolved.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Dec 20 15:19:53 garuda daemon.info netopeer2-server[852]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Dec 20 15:19:53 garuda daemon.info dhclient[1314]: eth0: : IP=192.168.4.65/255.255.255.0 router=192.168.4.15 domain="vvdntech.com"
dns="192.168.4.15" lease=60

Dec 20 15:19:53 garuda daemon.info dhclient: bound to 192.168.4.65 -- renewal in 30 seconds.

Dec 20 15:19:53 garuda user.err FAULT MANAGER[867]: sendData : Source ID: 17

Dec 20 15:19:53 garuda user.err FAULT MANAGER[867]: sendData : Fault ID: 23

Dec 20 15:19:53 garuda user.err FAULT MANAGER[867]: sendData : FAULT_IS_CLEARED: FALSE

Dec 20 15:19:53 garuda user.err FAULT MANAGER[867]: sendData : FAULT_SEVERITY: 2

Dec 20 15:19:53 garuda user.err FAULT MANAGER[867]: sendData : FAULT_TIME: 2105-12-20T15:19:53Z

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Session 4: thread 3 event new RPC.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Session 4: thread 3 event session terminated.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: There are no subscribers for "ietf-netconf-notifications" notifications.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Generated new event (netconf-session-end).

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Call Home client "default-client" session terminated.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: Trying to connect via IPv4 to 192.168.4.15:4334.

Dec 20 15:19:54 garuda daemon.info netopeer2-server[852]: getsockopt() error (Connection refused).

Dec 20 15:19:54 garuda auth.info sshd[14565]: Accepted password for operator from 192.168.4.15 port 55008 ssh2

Dec 20 15:19:54 garuda authpriv.info sshd[14565]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : 1. O-RU replies with proper status about operations requested.

2. The O-RU shall send an immediate rpc-reply message with one of following statuses:

- sFTP protocol error

3. When the O-RU initiates the software download failed the O-RU shall send NETCONF

download-event notification with one of the following statuses:

- PROTOCOL_ERROR

```
================================================================
  **************** Actual Result ****************
================================================================


=================================================================
```
O-RU Software Install PROTOCOL_ERROR   =   SUCCESS
```

=================================================================
```