



@ FILE NAME: M_CTC_ID_014.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MC1: v1.0.0

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:192.168.4.42' 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 : 1

Host : 192.168.4.42

Port: 830 Transport: SSH

Capabilities:

 $urn: ietf: params: netconf: base: 1.0 \ urn: ietf: params: netconf: base: 1.1 \ urn: ietf: params: netconf: capability: writable-running: 1.0 \ urn: ietf: params: netconf: base: 1.0 \ urn: ietf: params: n$

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

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

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

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

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

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=63

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_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 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>
 cproduct-code>STL=O-RU
 <vendor-code>VN</vendor-code>
 <build-id>factory_img</build-id>
 <build-name>Beta Release</build-name>
 <build-version>1.0.0</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>true</active>
 <running>true</running>
```

<access>READ_WRITE</access>

cproduct-code>STL=O-RU



<vendor-code>VN</vendor-code> <build-id>factory_img</build-id> <build-name>Beta Release</build-name> <build-version>1.0.0</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>STL=O-RU <vendor-code>VN</vendor-code> <build-id>factory_img</build-id> <build-name>Beta Release</build-name> <build-version>1.0.0</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>
C4. 1 WED NETCONE OF A 4 1
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>
<pre><remote-file-path>/home/vvdn/Software_release/B1/RADI_BN28v1.0.5.zip</remote-file-path></pre>
<pre><password></password></pre>
<pre><password>vvdn</password></pre>
<server></server>
<keys></keys>
<algorithm>secp256r1</algorithm>
< public-key>AAAAB3NzaC1yc2EAAAADAQABAAABAQDuVt6Rlu+fBupZHnws6xDNkK7k2lmQrjtYrJG6M+yQnpKQL/yqRcnLkSdQYJWarden (No. 1997) and the complex of
+ Zlz 3o Pip BBTc Uq 9Gq Iobok fog L/SQnwqsc ISIV 97TFvm PwN 6iVNl 4 og Wjf + McWr 7ZWj U 3rr LjB1y/d Ilp SQDV 9g + b + Iay IZN 3hx H0 Hij KQSG/8000000000000000000000000000000000000
45B5uFQAPEr3 + s5k4DuZXP5il81iSbhzq0f7/uG/VeA2cKBrum + adqI3mvM/GCqfvoE2 + S + ghK5Mtgx9gnNUQDvN8JcZRFm9C0ING66U73d + various and the state of the
OgbaFF5VKT0X3iDWHj9AEW1j8sE8Q5ymtlW5gyVs/4mDZH7d1eCWiawOiiv
****** RPC Reply *******
charge raply ymlns;no="umijatf:params;yml;ns;natoanf;hasa:1.0" massaga id="umijujid:016a410a d626 4549 0902 4a044746a622"\ catatia
<nc:rpc-reply message-id="urn:uuid:916c410e-d626-4548-9802-4a9dd7d6a632" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><status xmlns="urn:o-ran:software-management:1.0">STARTED</status><notification-timeout< td=""></notification-timeout<></nc:rpc-reply>
xmlns="urn:o-ran:software-management:1.0">30
Annua arma ramaari wara managamani na 230 y naamaaan minootii/ y na naamaa ramaa ramaa managamani na 230 y naamaaan minootii/ y na naamaa ramaa



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>2035-10-10T19:37:55Z</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>



- Oct 10 19:37:51 mcb1 daemon.info netopeer2-server[991]: Trying to connect via IPv4 to 192.168.4.15:4334.
- Oct 10 19:37:51 mcb1 daemon.info netopeer2-server[991]: getsockopt() error (Connection refused).
- Oct 10 19:37:52 mcb1 daemon.info netopeer2-server[991]: Trying to connect via IPv4 to 192.168.4.15:4334.
- Oct 10 19:37:52 mcb1 daemon.info netopeer2-server[991]: getsockopt() error (Connection refused).
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Trying to connect via IPv4 to 192.168.4.15:4334.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Successfully connected to 192.168.4.15:4334 over IPv4.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Session 69 (user "root", CID 1) created.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Received an SSH message "request-service" of subtype "ssh-userauth".
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Received an SSH message "request-auth" of subtype "password".
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: User "operator" authenticated.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Received an SSH message "request-channel-open" of subtype "session".
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Received an SSH message "request-channel" of subtype "subsystem".
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Call Home client "default-client" session 1 established.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Session 70 (user "root", CID 1) created.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: There are no subscribers for "ietf-netconf-notifications" notifications.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Generated new event (netconf-session-start).
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/ietf-netconf:get" with ID 1 priority 0 for 1 subscribers.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Processing "/ietf-netconf:get" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 1 priority 0 succeeded.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 3 event new RPC.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/ietf-netconf:get" with ID 2 priority 0 for 1 subscribers.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Processing "/ietf-netconf:get" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: There is no leafref
- "/ietf-keystore:keystore/ietf-keystore:asymmetric-keys/ietf-keystore:asymmetric-key/ietf-keystore:name" with the value "genkey", but it is not required.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: There is no leafref
- "/ietf-keystore:keystore/ietf-keystore:asymmetric-keys/ietf-keystore:asymmetric-key/ietf-keystore:name" with the value "genkey", but it is not required.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...
- Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.



Oct 10 19:37:53 mcb1 daemon.info netopeer2-server[991]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 1.

Oct 10 19:37:53 mcb1 user.notice fw_manager[1062]: RPC #1 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Event "operational" with ID 1 succeeded.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 2 priority 0 succeeded.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 0 event new RPC.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/ietf-netconf:get-config" with ID 1 priority 0 for 1 subscribers.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Processing "/ietf-netconf:get-config" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 1 priority 0 succeeded.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 4 event new RPC.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/notifications:create-subscription" with ID 1 priority 0 for 1 subscribers.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Processing "/notifications:create-subscription" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 1 priority 0 succeeded.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 4 event new RPC.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...



Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/ietf-netconf:get" with ID 3 priority 0 for 1 subscribers.

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Processing "/ietf-netconf:get" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 10 19:37:54 mcb1 daemon.info netopeer2-server[991]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 2.

Oct 10 19:37:54 mcb1 user.notice fw_manager[1062]: RPC #2 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Event "operational" with ID 2 succeeded.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: 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.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 0 event new RPC.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Published event "rpc" "/o-ran-software-management:software-download" with ID 1 priority 0 for 1 subscribers.

Oct 10 19:37:55 mcb1 user.notice fw_manager[1062]: RPC #1 recieved. xpath -> /o-ran-software-management:software-download

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Event "rpc" with ID 1 priority 0 succeeded.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:55 mcb1 user.err fw_manager[1062]: swDownload failed :Reason: sw download performed using sftp only

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 4 event new RPC.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "o-ran-software-management" event with ID 1.

Oct 10 19:37:55 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 10 19:37:57 mcb1 user.info FAULT MANAGER[1005]: sendData : Source ID: 21

Oct 10 19:37:57 mcb1 user.info FAULT MANAGER[1005]: sendData: Fault ID: 23

Oct 10 19:37:57 mcb1 user.info FAULT MANAGER[1005]: sendData : FAULT_IS_CLEARED: False

Oct 10 19:37:57 mcb1 user.info FAULT MANAGER[1005]: sendData : FAULT_SEVERITY: 2



Oct 10 19:37:57 mcb1 user.info FAULT MANAGER[1005]: sendData : FAULT_TIME: 2035-10-10T19:37:57Z

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: There is no instance of

"/notification_history:history/module-notification[module-name='Module']", but it is not required.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: There is no instance of

"/notification_history:history/module-notification[module-name='Module']/module-name", but it is not required.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: There is no instance of

"/notification_history:history/module-notification[module-name='Module']/notif-error", but it is not required.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: There is no instance of

"/notification_history:history/module-notification[module-name='Module']/alert", but it is not required.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Resolving unresolved data nodes and their constraints...

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: There is no instance of

"/notification_history:history/module-notification[module-name='Module']/epochtime", but it is not required.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: All data nodes and constraints resolved.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "ietf-netconf-notifications" event with ID 4.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Processing "notif" "o-ran-fm" event with ID 1.

Oct 10 19:37:57 mcb1 daemon.info netopeer2-server[991]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 4 event new RPC.

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: Session 1: thread 4 event session terminated.

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: Generated new event (netconf-session-end).

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: Call Home client "default-client" session terminated.

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 10 19:38:00 mcb1 daemon.info netopeer2-server[991]: getsockopt() error (Connection refused).

Oct 10 19:38:00 mcb1 auth.info sshd[2867]: Accepted password for operator from 192.168.4.15 port 41048 ssh2

Oct 10 19:38:00 mcb1 authpriv.info sshd[2867]: pam_unix(sshd:session): session opened for user operator by (uid=0)



Expected Result: 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. ********* Actual Result ********** ______ PROTOCOL_ERROR ______

O-RU Software Update and Install