@ **FILE NAME:** **M_CTC_ID_016.txt**

@ **TEST SCOPE:** **M PLANE O-RAN CONFORMANCE**

@ **Software Release for MC1:** **v1.0.0**

Test Description : The minimum functions of the TER described in section 2.1 that support validation of the M-Plane are operational, configured and connected to the O-RU

===

********** 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:192.168.4.39' 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   : 3
>
> Host   : 192.168.4.39
>
> 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=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,validate,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 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>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>false</active>
   <running>false</running>
   <access>READ_WRITE</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>1.0.0</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>
<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>1.0.0</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>
  </files>
 </software-slot>
 </software-inventory>
</data>
```

==

Step 1 : TER NETCONF Client triggers <rpc><software-activate> Slot must have attributes active = FALSE, running = FALSE.
==

==

> user-rpc

==

==
******* Replace with below xml ********
==
```
<software-activate xmlns="urn:o-ran:software-management:1.0">
<slot-name>swSlot2</slot-name>
</software-activate>
```
==
Step 2 : O-RU NETCONF Server responds with <rpc-reply><software-activate><status>. The parameter "status" is set to STARTED.
==
```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="urn:uuid:54b7a7ba-a604-4ec9-bdc9-1f1083a4c27c"><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 3 : O-RU NETCONF Server sends <notification><activation-event> with a status COMPLETED.
==
```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2103-10-28T10:02:33Z</eventTime>
 <activation-event xmlns="urn:o-ran:software-management:1.0">
  <slot-name>swSlot2</slot-name>
  <status>COMPLETED</status>
  <return-code>0</return-code>
 </activation-event>
</notification>
```

==

> **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>false</active>
   <running>true</running>
   <access>READ_WRITE</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>1.0.0</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>false</running>
   <access>READ_WRITE</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>1.0.0</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>
 <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>1.0.0</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>
</files>
</software-slot>
```

```
 </software-inventory>
</data>
```

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

Oct 28 10:02:14 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 28 10:02:14 mcb1 daemon.info netopeer2-server[985]: getsockopt() error (Connection refused).

Oct 28 10:02:15 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 28 10:02:15 mcb1 daemon.info netopeer2-server[985]: getsockopt() error (Connection refused).

Oct 28 10:02:15 mcb1 user.notice SYNCMNGR[1312]: Received message from S-Plane

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Successfully connected to 192.168.4.15:4334 over IPv4.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Session 116 (user "root", CID 1) created.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-auth" of subtype "password".

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: User "operator" authenticated.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel-open" of subtype "session".

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Call Home client "default-client" session 3 established.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Session 117 (user "root", CID 1) created.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Generated new event (netconf-session-start).

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 7 priority 0 for 1 subscribers.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 7 priority 0 succeeded.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 2 event new RPC.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 8 priority 0 for 1 subscribers.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 5.

Oct 28 10:02:16 mcb1 user.notice fw_manager[1066]: RPC #5 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Event "operational" with ID 5 succeeded.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 8 priority 0 succeeded.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:16 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 2 event new RPC.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get-config" with ID 3 priority 0 for 1 subscribers.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get-config" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 0 event new RPC.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/notifications:create-subscription" with ID 3 priority 0 for 1 subscribers.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Processing "/notifications:create-subscription" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 0 event new RPC.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 9 priority 0 for 1 subscribers.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 6.

Oct 28 10:02:17 mcb1 user.notice fw_manager[1066]: RPC #6 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Event "operational" with ID 6 succeeded.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 9 priority 0 succeeded.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 4 event new RPC.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Must condition "/software-inventory/software-slot[name = current()][status = 'VALID']" not satisfied, but it is not required.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:17 mcb1 daemon.info netopeer2-server[985]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 7.

Oct 28 10:02:17 mcb1 user.notice fw_manager[1066]: RPC #7 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Event "operational" with ID 7 succeeded.

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/o-ran-software-management:software-activate" with ID 1 priority 0 for 1 subscribers.

Oct 28 10:02:18 mcb1 user.notice fw_manager[1066]: RPC #1 recieved. xpath -> /o-ran-software-management:software-activate

Oct 28 10:02:18 mcb1 user.notice fw_manager[1066]: Requested slot for activation - swSlot2

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 1 priority 0 succeeded.

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:18 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 1 event new RPC.

Oct 28 10:02:29 mcb1 user.notice SYNCMNGR[1312]: Received message from S-Plane

Oct 28 10:02:33 mcb1 user.info FAULT MANAGER[1000]: sendData : Source ID: 21

Oct 28 10:02:33 mcb1 user.info FAULT MANAGER[1000]: sendData : Fault ID: 23

Oct 28 10:02:33 mcb1 user.info FAULT MANAGER[1000]: sendData : FAULT_IS_CLEARED: True

Oct 28 10:02:33 mcb1 user.info FAULT MANAGER[1000]: sendData : FAULT_SEVERITY: 0

Oct 28 10:02:33 mcb1 user.info FAULT MANAGER[1000]: sendData : FAULT_TIME: 2103-10-28T10:02:33Z

Oct 28 10:02:33 mcb1 user.notice fw_manager[1066]: RPC #8 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: There is no instance of
"/notification_history:history/module-notification[module-name='Module']/notif-error", but it is not required.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: There is no instance of
"/notification_history:history/module-notification[module-name='Module']/alert", but it is not required.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "o-ran-fm" event with ID 1.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: There is no instance of
"/notification_history:history/module-notification[module-name='Module']/epochtime", but it is not required.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Oct 28 10:02:33 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 28 10:02:34 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:34 mcb1 daemon.info netopeer2-server[985]: There is no leafref "/software-inventory/software-slot/name" with the value "swSlot2", but it is not required.

Oct 28 10:02:34 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:34 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "o-ran-software-management" event with ID 1.

Oct 28 10:02:34 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 10 priority 0 for 1 subscribers.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 9.

Oct 28 10:02:39 mcb1 user.notice fw_manager[1066]: RPC #9 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Event "operational" with ID 9 succeeded.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 10 priority 0 succeeded.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: 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 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Oct 28 10:02:39 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 1 event new RPC.

Oct 28 10:02:43 mcb1 user.notice SYNCMNGR[1312]: Received message from S-Plane

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 3 event new RPC.

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: Session 3: thread 3 event session terminated.

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: Generated new event (netconf-session-end).

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: Call Home client "default-client" session terminated.

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 28 10:02:44 mcb1 daemon.info netopeer2-server[985]: getsockopt() error (Connection refused).

Oct 28 10:02:44 mcb1 auth.info sshd[7641]: Accepted password for operator from 192.168.4.15 port 33500 ssh2

Oct 28 10:02:44 mcb1 authpriv.info sshd[7641]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result :

 1. The O-RU NETCONF Server performs a software activation procedure. When the

procedure is completed, the O-RU NETCONF Server sends

<notification><activation-event> with a status COMPLETED and the slot-name in the

activation event corresponds to the slot-name used in the software-activate RPC to the

TER NETCONF Client.

 2. Status of the software slot containing the software still used by device remains VALID,

the parameter "active" is set to False. The parameter "running" is True.

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


=======================================================================
O-RU Software Activate without reset            =        SUCCESS

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