@ FILE NAME: M_CTC_ID_023.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1:   v1.0.7

Test Description : This scenario is MANDATORY for an O-RU supporting the Hierarchical M-plane architecture model.

This test validates that the O-RU can successfully start up with activated software.

This scenario corresponds to the following chapters in [3]:

3.3 SSH Connection Establishment

3.4 NETCONF Access Control

3.7 closing a NETCONF Session

===

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

===

===

Step 1 and 2: The TER NETCONF Client establishes connection and creates an account for new user using o-ran-user9 mgmt.yang

===

> listen --ssh --login operator

     Waiting 60s for an SSH Call Home connection on port 4334...

     The authenticity of the host '::ffff:192.168.17.37' cannot be established.

     ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83

     Interactive SSH Authentication done.

> status

Current NETCONF session:

ID   : 9

Host   : 192.168.17.37

Port   : 830

Transport   : SSH

Capabilities:

urn:ietf:params:netconf:base:1.0 urn:ietf:params:netconf:base:1.1 urn:ietf:params:netconf:capability:writable-running:1.0 urn:ietf:params:netconf:capability:candidate:1.0 urn:ietf:params:netconf:capability:rollback-on-error:1.0 urn:ietf:params:netconf:capability:validate:1.1 urn:ietf:params:netconf:capability:startup:1.0 urn:ietf:params:netconf:capability:xpath:1.0 urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit urn:ietf:params:netconf:capability:notification:1.0 urn:ietf:params:netconf:capability:interleave:1.0 urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05 urn:ietf:params:xml:ns:yang:1?module=yang&revision=2017-02-20 urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15 urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15 urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=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

===

> edit-config --target running --config --defop merge

==

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

```
<config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<users xmlns="urn:o-ran:user-mgmt:1.0">
  <user>
    <name>operator011</name>
    <account-type>PASSWORD</account-type>
```

```
<password>oP+moNxK^J2mrkPFkYAi)nPO1)Xp1TP5Uzuam~YSsjA8W.%tVU6w_hcsZ{aaOk2)M.EUAZOm2QSpMJo]uBgKwS4Nc~</password>
```

```
    <enabled>true</enabled>
  </user>
</users>
</config>
```

==

Ok

==

==
****** NOTIFICATIONS ******
==

```xml
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2000-11-04T00:03:00Z</eventTime>
 <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
  <username>root</username>
  <session-id>9</session-id>
 </changed-by>
 <datastore>running</datastore>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator011']</target>
  <operation>create</operation>
 </edit>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator011']/o-ran-usermgmt:name</target>
  <operation>create</operation>
 </edit>
 <edit>
```

```
        <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator011']/o-ran-userm
gmt:account-type</target>
    <operation>create</operation>
  </edit>
  <edit>
    <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator011']/o-ran-userm
gmt:password</target>
    <operation>create</operation>
  </edit>
  <edit>
    <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator011']/o-ran-userm
gmt:enabled</target>
    <operation>create</operation>
  </edit>
 </netconf-config-change>
</notification>
```

===
Step 3 and 4: The TER NETCONF Client retrieves a list of users
===

===
> get --filter-xpath /o-ran-usermgmt:users/user
===

```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">
 <users xmlns="urn:o-ran:user-mgmt:1.0">
  <user>
   <name>oranuser</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>observer</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>installer</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator94470462419347</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator1069</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator299391533376092729390</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator735058550456</name>
   <account-type>PASSWORD</account-type>
```

```
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator011</name>
 <account-type>PASSWORD</account-type>
 <enabled>true</enabled>
 </user>
 </users>
</data>
```

===
> edit-config --target running --config --defop merge
===

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

```
<config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<nacm xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">
 <groups>
  <group>
   <name>sudo</name>
   <user-name>operator011</user-name>
  </group>
 </groups>
</nacm>
</config>
```

===

Ok

===

===
******* NOTIFICATIONS *******
===

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2000-11-04T00:03:01Z</eventTime>
 <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
  <username>root</username>
  <session-id>9</session-id>
 </changed-by>
 <datastore>running</datastore>
 <edit>
  <target
xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='sudo']/nacm:user-name[.='opera
```

tor011']</target>
  <operation>create</operation>
 </edit>
 </netconf-config-change>
</notification>

==
Step 5 and 6: NETCONF Server establishes a TCP connection and performs the Call Home procedure to the TER NETCONF Client using the same IP and VLAN.
==

> listen --ssh --login operator011

 Waiting 60s for an SSH Call Home connection on port 4334...The authenticity of the host '::ffff:192.168.17.37' cannot be established.
  ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83.

operator011@::ffff:192.168.17.37 password:

==
Step 7: TER NETCONF Client and O-RU NETCONF Server exchange capabilities through the NETCONF <hello> messages
==

 > status
 Current NETCONF session:
 ID : 10
 Host : ::ffff:192.168.17.37
 Port : 45770
 Transport : SSH
 Capabilities:

 urn:ietf:params:netconf:base:1.0urn:ietf:params:netconf:base:1.1urn:ietf:params:netconf:capability:writable-running:1.0
urn:ietf:params:netconf:capability:candidate:1.0urn:ietf:params:netconf:capability:rollback-on-error:1.0
urn:ietf:params:netconf:capability:validate:1.1urn:ietf:params:netconf:capability:startup:1.0urn: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:1.0urn: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,xpathurn: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=2014-08-06urn:notification_history?module=notification_history
urn:ietf:params:xml:ns:yang:iana-if-type?module=iana-if-type&revision=2017-01-19


```
==============================================================================
   ############ SYSTEM LOGS #############
==============================================================================
```
Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.17.155:4334.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Successfully connected to 192.168.17.155:4334 over IPv4.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Session 208 (user "root", CID 1) created.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: User "operator" authenticated.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Call Home client "default-client" session 9 established.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Session 209 (user "root", CID 1) created.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Generated new event (netconf-session-start).

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 14 priority 0 for 1 subscribers.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 14 priority 0 (remaining 1 subscribers).

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 14 priority 0 (remaining 0 subscribers).

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 14 priority 0 succeeded.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 3 event new RPC.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get" with ID 15 priority 0 for 1 subscribers.

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get" "rpc" event with ID 15 priority 0 (remaining 1 subscribers).

Nov 4 00:02:53 mcb1 daemon.info netopeer2-server[985]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 6.

Nov 4 00:02:53 mcb1 user.notice fw_manager[1075]: RPC #6 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Event "operational" with ID 6 succeeded.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN=O-RU", but it is not required.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "VVDN O-RU", but it is not required.

Nov 4 00:02:54 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.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 15 priority 0 (remaining 0 subscribers).

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 15 priority 0 succeeded.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: There is no leafref

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

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: There is no leafref

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

Nov 4 00:02:54 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.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 0 event new RPC.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get-config" with ID 13 priority 0 for 1 subscribers.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get-config" "rpc" event with ID 13 priority 0 (remaining 1 subscribers).

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 13 priority 0 (remaining 0 subscribers).

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 13 priority 0 succeeded.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:54 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.

Nov 4 00:02:54 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.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:54 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 2 event new RPC.

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/notifications:create-subscription" with ID 7 priority 1 for 1 subscribers.

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: Processing "ietf-netconf-monitoring" "operational" event with ID 7.

Nov 4 00:02:59 mcb1 daemon.info netopeer2-server[985]: Successful processing of "operational" event with ID 7.

Nov 4 00:02:59 mcb1 user.notice supervision[1375]: Checking to enable supervision default-timer

Nov 4 00:02:59 mcb1 user.notice supervision[1375]: Received supervision-notification #7 from"operator" user.path

->/notifications:create-subscription

Nov 4 00:02:59 mcb1 user.notice supervision[1375]: Received supervision-notification

Nov 4 00:02:59 mcb1 user.notice supervision[1375]: Default supervision timer value : 60 seconds. Default Guard timer value : 10 seconds

Nov 4 00:02:59 mcb1 user.notice supervision[1375]: Internal Supervision timer value : 60 seconds.   Internal Guard timer value : 10 seconds

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 7 priority 1 succeeded.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/notifications:create-subscription" with ID 7 priority 0 for 1 subscribers.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Processing "/notifications:create-subscription" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 7 priority 0 succeeded.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 0 event new RPC.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:edit-config" with ID 8 priority 0 for 1 subscribers.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Published event "change" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:03:00 mcb1 user.notice USERMGMT[1064]: operator011 added successfully !!

Nov 4 00:03:00 mcb1 user.notice USERMGMT[1064]: operator011 enabled !!

Nov 4 00:03:00 mcb1 user.notice USERMGMT[1064]: END OF CHANGES

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Event "change" with ID 3 priority 0 succeeded.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Published event "done" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/name", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/account-type", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/password", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/enabled", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:03:00 mcb1 user.notice USERMGMT[1064]: END OF CHANGES

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/name", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/account-type", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/password", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: There is no instance of "/o-ran-usermgmt:users/user[name='operator011']/enabled", but it is not required.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 8 priority 0 succeeded.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:03:00 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 0 event new RPC.

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:00 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:01 mcb1 user.warn pm_manager[1387]: Failed to open /media/sd-mmcblk0p4/O-RAN/log/timezone. Using default value...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:get-config" with ID 14 priority 0 for 1 subscribers.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:get-config" "rpc" event with ID 14 priority 0 (remaining 1 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 14 priority 0 (remaining 0 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 14 priority 0 succeeded.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 0 event new RPC.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Published event "rpc" "/ietf-netconf:edit-config" with ID 9 priority 0 for 1 subscribers.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Published event "done" "ietf-netconf-acm" with ID 5 priority 0 for 4 subscribers.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Processing "ietf-netconf-acm" "done" event with ID 5 priority 0 (remaining 4 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Successful processing of "done" event with ID 5 priority 0 (remaining 0 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Resolving unresolved data nodes and their constraints...

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='sudo']/user-name[.='operator011']", but it is not required.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: All data nodes and constraints resolved.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Event "rpc" with ID 9 priority 0 succeeded.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 0 event new RPC.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 4 event new RPC.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 9: thread 4 event session terminated.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Generated new event (netconf-session-end).

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Call Home client "default-client" session terminated.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Trying to connect via IPv4 to 192.168.17.155:4334.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Successfully connected to 192.168.17.155:4334 over IPv4.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 231 (user "root", CID 1) created.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: User "operator011" authenticated.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Call Home client "default-client" session 10 established.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Session 232 (user "root", CID 1) created.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:03:01 mcb1 daemon.info netopeer2-server[985]: Generated new event (netconf-session-start).

Nov 4 00:03:01 mcb1 authpriv.debug sshd[3187]: pam_unix(sshd:account): account operator has password changed in future

Nov 4 00:03:01 mcb1 auth.info sshd[3187]: Accepted password for operator from 192.168.17.155 port 41374 ssh2

Nov 4 00:03:01 mcb1 authpriv.info sshd[3187]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : The TER NETCONF Client establishes a Call Home & SSH session towards the NETCONF Server with new user created above.

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


=========================================================================
Sudo on Hierarchical M-plane architecture (positive case)      =       SUCCESS

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