@ FILE NAME: M_CTC_ID_023.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for LPRU: v1.0.16

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:192.168.98.37' 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   : 16

  Host   : 192.168.98.37

  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=61 urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10 urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14 urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,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 --filter-xpath /ietf-netconf-notifications:*

==

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>operator498149557</name>
    <account-type>PASSWORD</account-type>

<password>Z8dJdGkyUl(Oma{mz26sTW57reO)Ytg{Gt6ZZ4D)4XI[Ikh]L+3a7!~tz1TfaDKvcLcWRcj}3ERI9LIpUcOm4(S}5}r+HK5g[plx$!Lq
V_V74uaDR$DfPniRz0MK69</password>
            <enabled>true</enabled>
        </user>
    </users>
    </config>
```
==

Ok

==

==
****** NOTIFICATIONS ******
==
```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2000-11-04T00:32:15Z</eventTime>
 <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
  <username>root</username>
  <session-id>16</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='operator498149557']</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='operator498149557']/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='operator498149557']/o-ra
n-usermgmt: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='operator498149557']/o-ra
n-usermgmt: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='operator498149557']/o-ra
n-usermgmt: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>operator11879338448155316</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator35813916948</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator6221</name>
   <account-type>PASSWORD</account-type>
   <enabled>true</enabled>
  </user>
  <user>
   <name>operator915275104635069511512312</name>
   <account-type>PASSWORD</account-type>
```

```xml
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator1930927930649</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator213245180307904</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator429298006246159886060</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator92526982514</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator23128973556</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator0710008545411089</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator603</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator858213709</name>
  <account-type>PASSWORD</account-type>
  <enabled>true</enabled>
 </user>
 <user>
  <name>operator498149557</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>operator498149557</user-name>
  </group>
 </groups>
</nacm>
</config>

==

Ok

==

==
****** **NOTIFICATIONS** ******
==
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
 <eventTime>2000-11-04T00:32:15Z</eventTime>
 <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
  <username>root</username>
  <session-id>16</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
tor498149557']</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 operator498149557

    Waiting 60s for an SSH Call Home connection on port 4334...The authenticity of the host '::ffff:192.168.98.37' cannot be established.

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

operator498149557@::ffff:192.168.98.37 password:

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

> status

Current NETCONF session:

ID   : 17

Host   : ::ffff:192.168.98.37

Port   : 50830

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=61

urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10

urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14

urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.98.88:4334 over IPv4.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Session 297 (user "root", CID 1) created.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: User "operator" authenticated.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 16 established.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Session 298 (user "root", CID 1) created.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 31 priority 0 for 1 subscribers.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 31 priority 0 (remaining 1 subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 31 priority 0 (remaining 0 subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 31 priority 0 succeeded.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 32 priority 0 for 1 subscribers.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 32 priority 0 (remaining 1 subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 26.

Nov 4 00:32:09 vvdn_lpru user.notice fw_manager[928]: RPC #26 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Event "operational" with ID 26 succeeded.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 32 priority 0 (remaining 0

subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 32 priority 0 succeeded.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: 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 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 18 priority 0 for 1 subscribers.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 18 priority 0 (remaining 1 subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 18 priority 0 (remaining 0 subscribers).

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 18 priority 0 succeeded.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref

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

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref

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

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:09 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 3 event new RPC.

Nov 4 00:32:14 vvdn_lpru user.notice SYNCMNGR[1174]: Received message from S-Plane

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/notifications:create-subscription" with ID 11 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/notifications:create-subscription" "rpc" event with ID 11 priority 0 (remaining 1 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 11 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 11 priority 0 succeeded.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 8 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "change" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru user.notice USERMGMT[917]: operator498149557 added successfully !!

Nov 4 00:32:15 vvdn_lpru user.notice USERMGMT[917]: operator498149557 enabled !!

Nov 4 00:32:15 vvdn_lpru user.notice USERMGMT[917]: END OF CHANGES

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Event "change" with ID 3 priority 0 succeeded.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "done" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru user.notice USERMGMT[917]: END OF CHANGES

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/name", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/account-type", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/password", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/enabled", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 8 priority 0 succeeded.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/name", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/account-type", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/password", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator498149557']/enabled", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 19 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 19 priority 0 (remaining 1 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 19 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 19 priority 0 succeeded.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 9 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "done" "ietf-netconf-acm" with ID 5 priority 0 for 4 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "ietf-netconf-acm" "done" event with ID 5 priority 0 (remaining 4 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "done" event with ID 5 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/ietf-netconf-acm:nacm/groups/group[name='sudo']/user-name[.='operator498149557']", but it is not required.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 9 priority 0 succeeded.

Nov 4 00:32:15 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 4 event new RPC.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 3 event new RPC.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Session 16: thread 3 event session terminated.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-end).

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session terminated.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.98.88:4334 over IPv4.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Session 317 (user "root", CID 1) created.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: User "operator498149557" authenticated.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 17 established.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Session 318 (user "root", CID 1) created.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:32:16 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).

Nov 4 00:32:16 vvdn_lpru authpriv.debug sshd[28220]: pam_unix(sshd:account): account operator has password changed in future

Nov 4 00:32:16 vvdn_lpru auth.info sshd[28220]: Accepted password for operator from 192.168.98.88 port 43782 ssh2

Nov 4 00:32:16 vvdn_lpru authpriv.info sshd[28220]: 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

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