



@ FILE NAME: M_CTC_ID_023.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MC1: v1.0.5

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 '192.168.4.43' 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      : 55
```

```
Host    : 192.168.4.43
```

```
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>operator02459683000407</name>
      <account-type>PASSWORD</account-type>

      <password>C(g9b6JU4Ms0E6uY!jvZI$Uuw69EI76S057aLnIUcZXoGBiG_XP^7xoPI02^HvRAc2R3A$kBY6N.5X+4[Bk}a2s[</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>2103-10-29T23:16:23Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>55</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='operator02459683000407'
]/>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='operator02459683000407'
]/o-ran-usermgmt:name</target>
      <operation>create</operation>
    </edit>
  </edit>
</notification>
```

```
<target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator02459683000407'
]/o-ran-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='operator02459683000407'
]/o-ran-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='operator02459683000407'
]/o-ran-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 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>operator4902007191052112</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator839366804111370</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator49793707</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator56631037906427049</name>
      <account-type>PASSWORD</account-type>
```

```
<enabled>true</enabled>
</user>
<user>
  <name>operator02459683000407</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>operator02459683000407</user-name>
    </group>
  </groups>
</nacm>
</config>
```

```
=====
Ok
=====
```

```
=====
***** NOTIFICATIONS *****
=====
```

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2103-10-29T23:16:23Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>55</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
```

```
tor02459683000407']</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 operator02459683000407
```

```
Waiting 60s for an SSH Call Home connection on port 4334...The authenticity of the host '::ffff:192.168.4.43' cannot be established.  
ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83.
```

```
operator02459683000407@::ffff:192.168.4.43 password:
```

=====

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

=====

```
> status
```

```
Current NETCONF session:
```

```
ID      : 56
```

```
Host     : ::ffff:192.168.4.43
```

```
Port     : 50690
```

```
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,valida  
te,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

=====

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Successfully connected to 192.168.4.15:4334 over IPv4.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Session 701 (user "root", CID 1) created.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-auth" of subtype "password".

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: User "operator" authenticated.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel-open" of subtype "session".

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Call Home client "default-client" session 55 established.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Session 702 (user "root", CID 1) created.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Generated new event (netconf-session-start).

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get" with ID 130 priority 0 for 1 subscribers.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get" "rpc" event with ID 130 priority 0 (remaining 1 subscribers).

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 130 priority 0 (remaining 0 subscribers).

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 130 priority 0 succeeded.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 0 event new RPC.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get" with ID 131 priority 0 for 1 subscribers.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get" "rpc" event with ID 131 priority 0 (remaining 1 subscribers).

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 22.

Oct 29 23:16:17 mcb1 user.notice fw_manager[1067]: RPC #22 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Event "operational" with ID 22 succeeded.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 131 priority 0 (remaining 0 subscribers).

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 131 priority 0 succeeded.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: 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 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:17 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 0 event new RPC.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get-config" with ID 31 priority 0 for 1 subscribers.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get-config" "rpc" event with ID 31 priority 0 (remaining 1 subscribers).

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 31 priority 0 (remaining 0 subscribers).

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 31 priority 0 succeeded.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:18 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 1 event new RPC.

Oct 29 23:16:21 mcb1 user.notice SYNCMNGR[1313]: Received message from S-Plane

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/notifications:create-subscription" with ID 17 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "/notifications:create-subscription" "rpc" event with ID 17 priority 0 (remaining 1 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 17 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 17 priority 0 succeeded.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 1 event new RPC.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:edit-config" with ID 7 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be

performed.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "change" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 user.notice USERMGMT[1056]: operator02459683000407 added successfully !!

Oct 29 23:16:23 mcb1 user.notice USERMGMT[1056]: operator02459683000407 enabled !!

Oct 29 23:16:23 mcb1 user.notice USERMGMT[1056]: END OF CHANGES

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Event "change" with ID 3 priority 0 succeeded.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "done" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 user.notice USERMGMT[1056]: END OF CHANGES

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/name", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/account-type", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/password", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/enabled", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 7 priority 0 succeeded.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 2 event new RPC.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/name", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/account-type", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/password", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator02459683000407']/enabled", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get-config" with ID 32 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get-config" "rpc" event with ID 32 priority 0 (remaining 1

subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 32 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 32 priority 0 succeeded.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 3 event new RPC.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:edit-config" with ID 8 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "done" "ietf-netconf-acm" with ID 5 priority 0 for 4 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "ietf-netconf-acm" "done" event with ID 5 priority 0 (remaining 4 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "done" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='sudo']/user-name[.='operator02459683000407']", but it is not required.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 8 priority 0 succeeded.

Oct 29 23:16:23 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 3 event new RPC.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 4 event new RPC.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Session 55: thread 4 event session terminated.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Generated new event (netconf-session-end).

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Call Home client "default-client" session terminated.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Successfully connected to 192.168.4.15:4334 over IPv4.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Session 721 (user "root", CID 1) created.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-auth" of subtype "password".

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: User "operator02459683000407" authenticated.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel-open" of subtype "session".

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Call Home client "default-client" session 56 established.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Session 722 (user "root", CID 1) created.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:16:24 mcb1 daemon.info netopeer2-server[986]: Generated new event (netconf-session-start).

Oct 29 23:16:24 mcb1 auth.info sshd[14717]: Accepted password for operator from 192.168.4.15 port 58980 ssh2

Oct 29 23:16:24 mcb1 authpriv.info sshd[14717]: 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.

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***** Actual Result *****

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

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