



@ FILE NAME: M\_CTC\_ID\_023\_.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for Garuda\_RevD: v5.0.0

**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

```
> connect --ssh --host 192.168.4.46 --port 830 --login operator
```

Interactive SSH Authentication

Type your password:

Password:

```
> status
```

Current NETCONF session:

ID : 39

Host : 192.168.4.46

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
```

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>operator972061</name>
      <account-type>PASSWORD</account-type>
      <password>f7^ZKe^czzZlkX].yg43(+AJbcCzqam$z0BYE3)betIDbz98IK{621</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>2022-08-02T18:52:43Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>39</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='operator972061']</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='operator972061']/o-ran-us
ermgmt: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='operator972061']/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='operator972061']/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='operator972061']/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>operator5310619424927220</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator42009256600399182198</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator900036241939705</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
  
```

```
<name>operator71319136</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator972061</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>operator972061</user-name>
    </group>
  </groups>
</nacm>
</config>
```

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

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

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-08-02T18:52:43Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>39</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[.='operator972061']</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 operator972061
Waiting 60s for an SSH Call Home connection on port 4334...The authenticity of the host '::ffff:192.168.4.46' cannot be established.
ssh-rsa key fingerprint is 59:9e:90:48:f1:d7:6e:35:e8:d1:f6:1e:90:aa:a3:83:a0:6b:98:5a.
Are you sure you want to continue connecting (yes/no)? yes
operator972061@::ffff:192.168.4.46 password:
```

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

```
> status
Current NETCONF session:
ID      : 40
Host     : ::ffff:192.168.4.46
Port     : 38134
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 #####

```
Aug 2 18:52:39 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Aug 2 18:52:39 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Aug 2 18:52:40 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Aug 2 18:52:40 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Aug 2 18:52:41 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Aug 2 18:52:41 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Aug 2 18:52:42 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Aug 2 18:52:42 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Accepted a connection on :::830.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 1863 (user "root", CID 1) created.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-service" of subtype "ssh-userauth".
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-auth" of subtype "password".
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: User "operator" authenticated.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel-open" of subtype "session".
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel" of subtype "Subsystem".
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 1864 (user "root", CID 1) created.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There are no subscribers for "ietf-netconf-notifications" notifications.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Generated new event (netconf-session-start).
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "rpc" "/notifications:create-subscription" with ID 8 priority 0 for 1 subscribers.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "/notifications:create-subscription" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Event "rpc" with ID 8 priority 0 succeeded.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 39: thread 0 event new RPC.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "rpc" "/ietf-netconf:edit-config" with ID 8 priority 0 for 1 subscribers.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "change" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.
Aug 2 18:52:43 garuda user.notice USERMGMGT[903]: operator972061 added successfully !!
Aug 2 18:52:43 garuda user.notice USERMGMGT[903]: operator972061 enabled !!
```

Aug 2 18:52:43 garuda user.notice USERMGMT[903]: END OF CHANGES

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Event "change" with ID 3 priority 0 succeeded.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "done" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Aug 2 18:52:43 garuda user.notice USERMGMT[903]: END OF CHANGES

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/name", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/account-type", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/password", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/enabled", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Event "rpc" with ID 8 priority 0 succeeded.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/name", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/account-type", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 39: thread 1 event new RPC.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/password", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/o-ran-usermgmt:users/user[name='operator972061']/enabled", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "rpc" "ietf-netconf:get-config" with ID 18 priority 0 for 1 subscribers.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "ietf-netconf:get-config" "rpc" event with ID 18 priority 0 (remaining 1 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "rpc" event with ID 18 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Event "rpc" with ID 18 priority 0 succeeded.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 39: thread 3 event new RPC.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "rpc" "/ietf-netconf:edit-config" with ID 9 priority 0 for 1 subscribers.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "done" "ietf-netconf-acm" with ID 5 priority 0 for 4 subscribers.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "ietf-netconf-acm" "done" event with ID 5 priority 0 (remaining 4 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "done" event with ID 5 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: There is no instance of "/ietf-netconf-acm:nacm/groups/group[name='sudo']/user-name[.='operator972061']", but it is not required.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Event "rpc" with ID 9 priority 0 succeeded.

Aug 2 18:52:43 garuda daemon.info netopeer2-server[846]: Session 39: thread 0 event new RPC.

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: Session 39: thread 1 event new RPC.

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: Session 39: thread 1 event session terminated.

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: There are no subscribers for "ietf-netconf-notifications" notifications.

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: Generated new event (netconf-session-end).

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:44 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:45 garuda user.notice SYNCMNGR[1160]: Received message from S-Plane

Aug 2 18:52:45 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:45 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:46 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:46 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:47 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:47 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:48 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:48 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:49 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:49 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:50 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:50 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:51 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:51 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:52 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:52 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:53 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:53 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Successfully connected to 192.168.4.15:4334 over IPv4.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Session 1879 (user "root", CID 1) created.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-service" of subtype "ssh-userauth".

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-auth" of subtype "password".

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: User "operator972061" authenticated.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel-open" of subtype "session".

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel" of subtype "subsystem".

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Call Home client "default-client" session 40 established.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Session 1880 (user "root", CID 1) created.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: There are no subscribers for "ietf-netconf-notifications" notifications.

Aug 2 18:52:54 garuda daemon.info netopeer2-server[846]: Generated new event (netconf-session-start).

Aug 2 18:52:55 garuda auth.info sshd[15132]: Accepted password for operator from 192.168.4.15 port 59794 ssh2

Aug 2 18:52:55 garuda authpriv.info sshd[15132]: 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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