



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

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for LPRU: v1.1.0

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 192.168.214.37 --port 830 --login operator Interactive SSH Authentication Type your password: Password: > status Current NETCONF session: ID . 10 : 192.168.214.37 Host 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,valid ate,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

Page 2

> 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>operator12478769987269804814311</name> <account-type>PASSWORD</account-type> <password>4Q5\_.6^8(OwfAARWQ\_jUzU]bQ)3sq4]Kv(i</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>2000-11-04T00:04:15Z</eventTime> <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications"> <changed-by> <username>root</username> <session-id>10</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='operator12478769987269 804814311']</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:users/o-ran-usermgmt:name='operator12478769987269 804814311']/o-ran-usermgmt:name</target> <operation>create</operation> </edit> <edit> xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator12478769987269



304814311']/o-ran-usermgmt:account-type
<pre><operation>create</operation></pre>
<edit></edit>
<target< td=""></target<>
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator12478769987269
304814311']/o-ran-usermgmt:password
<pre><operation>create</operation></pre>
<edit></edit>
<target< td=""></target<>
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator12478769987269
304814311']/o-ran-usermgmt:enabled
<pre><operation>create</operation></pre>



\_\_\_\_\_

### 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>operator10804206543</name>

<account-type>PASSWORD</account-type>

<enabled>true</enabled>

</user>

<user>

<name>operator27689832</name>

<account-type>PASSWORD</account-type>

<enabled>true</enabled>

</user>

<user>

<name>operator569496134733421925922</name>

<account-type>PASSWORD</account-type>

<enabled>true</enabled>

</user>

<user>

<name>operator018</name>

<account-type>PASSWORD</account-type>



```
<enabled>true</enabled>
 </user>
 <user>
 <name>operator12478769987269804814311</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>operator12478769987269804814311</user-name>
 </group>
 </groups>
</nacm>
</config>
Ok
***** NOTIFICATIONS ******
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
<eventTime>2000-11-04T00:04:16Z</eventTime>
<netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
 <username>root</username>
 <session-id>10</session-id>
 </changed-by>
 <datastore>running</datastore>
 <edit>
xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='sudo']/nacm:user-name[.='opera
```





tor12478769987269804814311']</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 operator12478769987269804814311

Waiting 60s for an SSH Call Home connection on port 4334...The authenticity of the host '::ffff:192.168.214.37' 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

operator12478769987269804814311@::ffff:192.168.214.37 password:

\_\_\_\_\_

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

> status

Current NETCONF session:

ID : 11

Host :::ffff:192.168.214.37

Port : 48126 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: base: 1.0 urn: i

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:1.0urn: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: netconf: capability: netconf: capability:

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: 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, rollback-on-error, rollback

te, startup, url, xpathurn: ietf: params: xml: ns: yang: ietf-netconf-with-defaults? module = ietf-netconf-with-defaults & revision = 2011-06-01 + ietf-netconf-with-defaults & revision = 20

urn: ietf: params: xml: ns: yang: ietf-net conf-notifications? module = ietf-net conf-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



\_\_\_\_\_\_

#### 

- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.214.234:4334 over IPv4.
- Nov 4 00:04:09 vvdn lpru daemon.info netopeer2-server[858]: Session 184 (user "root", CID 1) created.
- Nov 4 00:04:09 vvdn lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: User "operator" authenticated.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 10 established.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Session 185 (user "root", CID 1) created.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 16 priority 0 for 1 subscribers.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 16 priority 0 (remaining 1 subscribers).
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 16 priority 0 (remaining 0 subscribers).
- $Nov\ \ 4\ 00:04:09\ vvdn\_lpru\ daemon.info\ netopeer 2-server [858]:\ Event\ "rpc"\ with\ ID\ 16\ priority\ 0\ succeeded.$
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 0 event new RPC.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 17 priority 0 for 1 subscribers.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 17 priority 0 (remaining 1 subscribers).
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 7.
- Nov 4 00:04:09 vvdn\_lpru user.notice fw\_manager[929]: RPC #7 recieved. xpath -> /o-ran-software-management:software-inventory
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Event "operational" with ID 7 succeeded.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...
- Nov 4 00:04:09 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 00:04:09 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 00:04:09 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 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.
- Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 17 priority 0 (remaining 0



#### subscribers).

Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 17 priority 0 succeeded.

Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:09 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 00:04:09 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 00:04:09 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 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:09 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 1 event new RPC.

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 15 priority 0 for 1 subscribers.

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 15 priority 0 (remaining 1 subscribers).

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 15 priority 0 (remaining 0 subscribers).

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 15 priority 0 succeeded.

 $Nov\ \ 4\ 00:04:10\ vvdn\_lpru\ daemon. info\ net opeer 2-server [858]:\ Resolving\ unresolved\ data\ nodes\ and\ their\ constraints...$ 

 $Nov\ \ 4\ 00:04:10\ vvdn\_lpru\ daemon. info\ net opeer 2-server [858]:\ All\ data\ nodes\ and\ constraints\ resolved.$ 

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov  $4\,00:04:10\,vvdn\_lpru$  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 00:04:10 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 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:10 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 0 event new RPC.

Nov 4 00:04:15 vvdn\_lpru user.notice SYNCMNGR[1175]: Received message from S-Plane

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/notifications:create-subscription" with ID 8 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/notifications:create-subscription" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 8 priority 0 succeeded.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 2 event new RPC.

Nov 4 00:04:15 vvdn lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...



Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 8 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:04:15 vvdn lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "change" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru user.notice USERMGMT[918]: operator12478769987269804814311 added successfully !!

Nov 4 00:04:15 vvdn\_lpru user.notice USERMGMT[918]: operator12478769987269804814311 enabled !!

Nov 4 00:04:15 vvdn\_lpru user.notice USERMGMT[918]: END OF CHANGES

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Event "change" with ID 3 priority 0 succeeded.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "done" "o-ran-usermgmt" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru user.notice USERMGMT[918]: END OF CHANGES

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/name", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/account-type", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/password", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/enabled", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

 $Nov\ \ 4\ 00:04:15\ vvdn\_lpru\ daemon. info\ net opeer 2-server [858]: Processing\ "notif"\ "ietf-net conf-notifications"\ event\ with\ ID\ 1.$ 

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 8 priority 0 succeeded.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt: users/user[name='operator12478769987269804814311']", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/name", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 2 event new RPC.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt: users/user[name='operator12478769987269804814311']/ account-type", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator12478769987269804814311']/password", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt: users/user[name='operator12478769987269804814311']/enabled", but it is not required.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.



Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 16 priority 0 for 1 subscribers.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 16 priority 0 (remaining 1 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 16 priority 0 (remaining 0 subscribers).

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 16 priority 0 succeeded.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:15 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 2 event new RPC.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 9 priority 0 for 1 subscribers.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "done" "ietf-netconf-acm" with ID 5 priority 0 for 4 subscribers.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "ietf-netconf-acm" "done" event with ID 5 priority 0 (remaining 4 subscribers).

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "done" event with ID 5 priority 0 (remaining 0 subscribers).

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='sudo']/user-name[.='operator12478769987269804814311']", but it is not required.

 $Nov\ \ 4\ 00:04:16\ vvdn\_lpru\ daemon. info\ net opeer 2-server [858]:\ All\ data\ nodes\ and\ constraints\ resolved.$ 

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 9 priority 0 succeeded.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 2 event new RPC.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 0 event new RPC.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Session 10: thread 0 event session terminated.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-end).



- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session terminated.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.214.234:4334 over IPv4.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Session 204 (user "root", CID 1) created.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: User "operator12478769987269804814311" authenticated.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 11 established.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Session 205 (user "root", CID 1) created.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.
- Nov 4 00:04:16 vvdn\_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).
- Nov 4 00:04:16 vvdn\_lpru authpriv.debug sshd[5706]: pam\_unix(sshd:account): account operator has password changed in future
- Nov 4 00:04:16 vvdn\_lpru auth.info sshd[5706]: Accepted password for operator from 192.168.214.234 port 36436 ssh2
- Nov 4 00:04:16 vvdn\_lpru authpriv.info sshd[5706]: 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.				
======================================	====== =	SUCCESS	====	
positive cuse)		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		