



@ FILE NAME: M_CTC_ID_018.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 Hybrid M-plane architecture model.

This test validates that user management model can be used to add users to the O-RU

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

3.3 SSH Connection Establishment

3.4 NETCONF Access Control

=====

STEP 1. The TER NETCONF Client establishes a connection with the O-RU NETCONF Server.

=====

=====

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

=====

> 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 : 8

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

```
=====
##### Initial Get #####
=====
```

```
=====
> 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>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>operator9152751046350691512312</name>
    <account-type>PASSWORD</account-type>
```

```
<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>
</users>
</data>
```

=====

STEP 2. The TER NETCONF Client configures three new user accounts in addition to the default sudo account already present and passwords these three accounts using o-ran-user.mgmt.yang

=====

=====

```
> 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>operator23128973556</name>
      <account-type>PASSWORD</account-type>
      <password>JI+F^PJ7$</password>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator0710008545411089</name>
      <account-type>PASSWORD</account-type>
```

```

    <password>I30nb1MT_gKd[wyQfrW7gVmEU+GVrrBWvqN20]LS-4-17</password>
    <enabled>true</enabled>
  </user>
  <user>
    <name>operator603</name>
    <account-type>PASSWORD</account-type>
    <password>e0wuUs+m_Z}-~l(hj~mvt}^ {p^Mrxy_K)zkCOZ]y(w[(Sx3Id.bXazS42[kRHIG(</password>
    <enabled>true</enabled>
  </user>
</users>
</config>

```

=====

RPC Reply

=====

Ok

=====

NOTIFICATIONS

=====

```

<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2000-11-04T00:29:05Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>8</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='operator23128973556']</t
arget>
        <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='operator23128973556']/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='operator23128973556']/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='operator23128973556']/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='operator23128973556']/o-
ran-usermgmt:enabled</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='operator07100085454110
89']</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='operator07100085454110
89']/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='operator07100085454110
89']/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='operator07100085454110
89']/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='operator07100085454110
89']/o-ran-usermgmt:enabled</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='operator603']</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='operator603']/o-ran-userm
gmt: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='operator603']/o-ran-userm
gmt:account-type</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator603']/o-ran-userm
gmt:password</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator603']/o-ran-userm
gmt:enabled</target>
    <operation>create</operation>
  </edit>
</netconf-config-change>
</notification>
```



```
=====
##### STEP 3. The TER NETCONF Client configures user account to group mappings for the
three
    new accounts using ietf-netconf-acm.yang respectively one with "nms", one with "fm-pm" and one
    with "swm" privilege. #####
=====
```

```
=====
> 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>fm-pm</name>
        <user-name>operator23128973556</user-name>
      </group>
      <group>
        <name>nms</name>
        <user-name>operator0710008545411089</user-name>
      </group>
      <group>
        <name>swm</name>
        <user-name>operator603</user-name>
      </group>
    </groups>
  </nacm>
</config>
```

```
=====
STEP 4. The O-RU NETCONF Server confirms the operations for the above transactions.
=====
```

Ok

```
=====
##### NOTIFICATIONS #####
=====
```

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2000-11-04T00:29:05Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>8</session-id>
    </changed-by>
  </netconf-config-change>
</notification>
```

```

</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='fm-pm']/nacm:user-name[.='operator23128973556']</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='nms']/nacm:user-name[.='operator0710008545411089']</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='swm']/nacm:user-name[.='operator603']</target>
    <operation>create</operation>
  </edit>
</netconf-config-change>
</notification>

```

```

=====
> get --filter-xpath /ietf-netconf-acm:nacm/groups
=====

```

```

<?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">
  <nacm xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">
    <groups>
      <group>
        <name>sudo</name>
        <user-name>operator</user-name>
      </group>
      <group>
        <name>fm-pm</name>
        <user-name>observer</user-name>
        <user-name>operator23128973556</user-name>
      </group>
      <group>
        <name>nms</name>
        <user-name>installer</user-name>
        <user-name>operator0710008545411089</user-name>
      </group>
      <group>
        <name>swm</name>
        <user-name>operator603</user-name>
      </group>
    </groups>
  </nacm>
</data>

```

```
</nacm>
</data>
```

=====

STEP 5. The TER NETCONF Client retrieves a list of users from O-RU NETCONF Server. The newly created user accounts and mappings are validated.

=====

=====

```
> 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>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>operator9152751046350691512312</name>
  <account-type>PASSWORD</account-type>
  <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>
</users>
</data>
```

=====

SYSTEM LOGS

=====

Nov 4 00:29:02 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:29:02 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:29:03 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:29:03 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.98.88:4334 over IPv4.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Session 214 (user "root", CID 1) created.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: User "operator" authenticated.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 8 established.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Session 215 (user "root", CID 1) created.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 18 priority 0 for 1 subscribers.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 18 priority 0 (remaining 1 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 18 priority 0 (remaining 0 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 18 priority 0 succeeded.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 3 event new RPC.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 19 priority 0 for 1 subscribers.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 19 priority 0 (remaining 1 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 21.

Nov 4 00:29:04 vvdn_lpru user.notice fw_manager[928]: RPC #21 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:29:04 vvdn_lpru user.notice SYNCMNGR[1174]: Received message from S-Plane

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Event "operational" with ID 21 succeeded.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 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 00:29:04 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 00:29:04 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 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 19 priority 0 (remaining 0 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 19 priority 0 succeeded.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 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 00:29:04 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 00:29:04 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 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 4 event new RPC.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 6 priority 0 for 1 subscribers.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 6 priority 0 (remaining 0 subscribers).

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 6 priority 0 succeeded.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:04 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 00:29:04 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 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:04 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 0 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/notifications:create-subscription" with ID 5 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/notifications:create-subscription" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 5 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 1 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 20 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 20 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 20 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 20 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 3 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "change" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator23128973556 added successfully !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator23128973556 enabled !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator0710008545411089 added successfully !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator0710008545411089 enabled !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator603 added successfully !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: operator603 enabled !!

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: END OF CHANGES

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "change" with ID 1 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "done" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru user.notice USERMGMT[917]: END OF CHANGES

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/name", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator0710008545411089']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/name", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/name", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/name", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator23128973556']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/name", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0710008545411089']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/name",

but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/account-type", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/password", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of "/o-ran-usermgmt:users/user[name='operator603']/enabled", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 1 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:edit-config" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "done" "ietf-netconf-acm" with ID 3 priority 0 for 4 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "ietf-netconf-acm" "done" event with ID 3 priority 0 (remaining 4 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "done" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='fm-pm']/user-name[.='operator23128973556']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='nms']/user-name[.='operator0710008545411089']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='swm']/user-name[.='operator603']", but it is not required.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 2 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 2 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 7 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 7 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 3 event new RPC.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 8 priority 0 for 1 subscribers.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 8 priority 0 succeeded.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:29:05 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 0 event new RPC.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 4 event new RPC.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: Session 8: thread 4 event session terminated.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-end).

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session terminated.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.98.88:4334.

Nov 4 00:29:10 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:29:11 vvdn_lpru authpriv.debug sshd[25101]: pam_unix(sshd:account): account operator has password changed in future

Nov 4 00:29:11 vvdn_lpru auth.info sshd[25101]: Accepted password for operator from 192.168.98.88 port 48034 ssh2

Nov 4 00:29:11 vvdn_lpru authpriv.info sshd[25101]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : The TER NETCONF Client retrieves a list of users from O-RU NETCONF Server. The newly created user accounts and mappings are validated.

=====

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

=====

=====

Sudo on Hybrid M-plane Architecture (positive case) = SUCCESS

=====