



@ FILE NAME: M_CTC_ID_011_.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for Garuda_RevD: v5.0.0

Test Description : This scenario validates that the O-RU NETCONF Server properly executes a get command with a filter applied.

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

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

Interactive SSH Authentication

Type your password:

Password:

> status

Current NETCONF session:

ID : 4

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

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*****step 1 and 2 Retrival of ru information with filter *****

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get --filter-xpath /o-ran-usermgmt:users/user

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

SYSTEM LOGS

```
Apr 14 05:18:02 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Apr 14 05:18:02 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Apr 14 05:18:03 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Apr 14 05:18:03 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Apr 14 05:18:04 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Apr 14 05:18:04 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Apr 14 05:18:05 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Apr 14 05:18:05 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Trying to connect via IPv4 to 192.168.4.15:4334.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: getsockopt() error (Connection refused).
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Accepted a connection on :::830.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Session 79 (user "root", CID 1) created.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-service" of subtype "ssh-userauth".
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-auth" of subtype "password".
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: User "operator" authenticated.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel-open" of subtype "session".
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Received an SSH message "request-channel" of subtype "subsystem".
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Session 80 (user "root", CID 1) created.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: There are no subscribers for "ietf-netconf-notifications" notifications.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Generated new event (netconf-session-start).
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Published event "rpc" "/ietf-netconf:get-config" with ID 2 priority 0 for 1 subscribers.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Processing "/ietf-netconf:get-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Event "rpc" with ID 2 priority 0 succeeded.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Resolving unresolved data nodes and their constraints...
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: All data nodes and constraints resolved.
Apr 14 05:18:06 garuda daemon.info netopeer2-server[846]: Session 4: thread 0 event new RPC.
Apr 14 05:18:07 garuda daemon.info netopeer2-server[846]: Session 4: thread 3 event new RPC.
Apr 14 05:18:07 garuda daemon.info netopeer2-server[846]: Session 4: thread 3 event session terminated.
Apr 14 05:18:07 garuda daemon.info netopeer2-server[846]: There are no subscribers for "ietf-netconf-notifications" notifications.
Apr 14 05:18:07 garuda daemon.info netopeer2-server[846]: Generated new event (netconf-session-end).
Apr 14 05:18:07 garuda auth.info sshd[2984]: Accepted password for operator from 192.168.4.15 port 59396 ssh2
Apr 14 05:18:07 garuda authpriv.info sshd[2984]: pam_unix(sshd:session): session opened for user operator by (uid=0)
```

Expected Result : The O-RU NETCONF Server responds with <rpc-reply><data> where <data> contains details for objects as conforming to the <filter>.

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

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GET_FILTER = SUCCESS

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