



@ FILE NAME: M_CTC_ID_011.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1: v1.0.1

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 192.168.170.40 --port 830 --login operator
```

Interactive SSH Authentication

Type your password:

Password:

```
> status
```

Current NETCONF session:

ID : 2

Host : 192.168.170.40

Port : 830

Transport : SSH

Capabilities:

urn:ietf:params:netconf:base:1.0 urn:ietf:params:netconf:base:1.1 urn:ietf:params:netconf:capability:writable-running:1.0
urn:ietf:params:netconf:capability:candidate:1.0 urn:ietf:params:netconf:capability:rollback-on-error:1.0
urn:ietf:params:netconf:capability:validate:1.1 urn:ietf:params:netconf:capability:startup:1.0 urn:ietf:params:netconf:capability:xpath:1.0
urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit
urn:ietf:params:netconf:capability:notification:1.0 urn:ietf:params:netconf:capability:interleave:1.0
urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05
urn:ietf:params:xml:ns:yang:1?module=yang&revision=2017-02-20
urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15
urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15
urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=63
urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10
urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14
urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,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

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

```
=====
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>garuda</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator11302326379</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator44567591</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator8075861281902</name>
<account-type>PASSWORD</account-type>
```

```
<enabled>true</enabled>
</user>
<user>
<name>operator17619020756748090</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator86938204120707827368</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator7596639986022389968</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator0126795795152205</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>operator119986</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>stl</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
</users>
</data>
```

=====

SYSTEM LOGS

=====

Oct 30 00:02:24 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 00:02:24 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 00:02:25 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 00:02:25 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Successfully connected to 192.168.170.85:4334 over IPv4.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Session 119 (user "root", CID 1) created.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-auth" of subtype "password".

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: User "operator" authenticated.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-channel-open" of subtype "session".

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Call Home client "default-client" session 2 established.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Session 120 (user "root", CID 1) created.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Generated new event (netconf-session-start).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get" with ID 4 priority 0 for 1 subscribers.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 4 priority 0 succeeded.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 1 event new RPC.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get" with ID 5 priority 0 for 1 subscribers.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 3.

Oct 30 00:02:26 mcb1 user.notice fw_manager[1065]: RPC #3 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Event "operational" with ID 3 succeeded.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref
"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 5 priority 0 succeeded.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 4 event new RPC.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get-config" with ID 2 priority 0 for 1 subscribers.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 2 priority 0 succeeded.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:26 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 2 event new RPC.

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/notifications:create-subscription" with ID 2 priority 0 for 1 subscribers.

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Processing "/notifications:create-subscription" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 2 priority 0 succeeded.

Oct 30 00:02:32 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 4 event new RPC.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get-config" with ID 3 priority 0 for 1 subscribers.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get-config" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 1 event new RPC.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 2 event new RPC.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Session 2: thread 2 event session terminated.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Generated new event (netconf-session-end).

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Call Home client "default-client" session terminated.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 00:02:33 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 00:02:33 mcb1 auth.info sshd[11535]: Accepted password for operator from 192.168.170.85 port 43182 ssh2

Oct 30 00:02:33 mcb1 authpriv.info sshd[11535]: 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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Retrieval with filter applied	=	SUCCESS
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