



@ FILE NAME: M_CTC_ID_011.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for LPRU: v1.1.0

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

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

=====

> connect --ssh --host 192.168.214.37 --port 830 --login operator

Interactive SSH Authentication

Type your password:

Password:

> status

Current NETCONF session:

ID : 1

Host : 192.168.214.37

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,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 *****
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```

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

=====

SYSTEM LOGS

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Nov 4 00:00:53 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.

Nov 4 00:00:53 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:00:54 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.

Nov 4 00:00:54 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Successfully connected to 192.168.214.234:4334 over IPv4.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Session 76 (user "root", CID 1) created.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-service" of subtype "ssh-userauth".

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-auth" of subtype "password".

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: User "operator" authenticated.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel-open" of subtype "session".

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Received an SSH message "request-channel" of subtype "subsystem".

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session 1 established.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Session 77 (user "root", CID 1) created.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-start).

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 3 event new RPC.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get" with ID 2 priority 0 for 1 subscribers.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-keystore:keystore/ietf-keystore:asymmetric-keys/ietf-keystore:asymmetric-key/ietf-keystore:name" with the value "genkey", but it is not required.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-keystore:keystore/ietf-keystore:asymmetric-keys/ietf-keystore:asymmetric-key/ietf-keystore:name" with the value "genkey", but it is not required.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:55 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 00:00:55 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 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:55 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-interfaces:interfaces/ietf-interfaces:interface/ietf-interfaces:name" with the value "eth0.6", but it is not required.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name = current()/../interface-name]/o-ran-interfaces:vlan-id" with the value "6",
but it is not required.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-interfaces:interfaces/ietf-interfaces:interface/ietf-interfaces:name" with the value "eth0", but it is not required.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: There is no leafref
"/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name =
current()/../interface-name]/o-ran-interfaces:port-reference/o-ran-interfaces:port-number" with the value "0", but

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Published event "operational" "/o-ran-software-management:software-inventory"
with ID 1.

Nov 4 00:00:56 vvdn_lpru user.notice fw_manager[929]: RPC #1 recieved. xpath -> /o-ran-software-management:software-inventory

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Event "operational" with ID 1 succeeded.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 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 00:00:56 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 00:00:56 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 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0
subscribers).

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 2 priority 0 succeeded.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 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 00:00:56 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 00:00:56 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 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 1 event new RPC.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:00:56 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 00:00:56 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 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:00:56 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 0 event new RPC.

Nov 4 00:00:59 vvdn_lpru user.notice SYNCMNGR[1175]: Received message from S-Plane

Nov 4 00:00:59 vvdn_lpru user.notice SYNCMNGR[1175]: SYNC Lock state : FREE RUN

Nov 4 00:00:59 vvdn_lpru user.notice SYNCMNGR[1175]: SYNCE Lock state : UNLOCKED

Nov 4 00:00:59 vvdn_lpru user.notice SYNCMNGR[1175]: PTP Lock state : UNLOCKED

Nov 4 00:00:59 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Source ID: 15

Nov 4 00:00:59 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Fault ID: 18

Nov 4 00:00:59 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_IS_CLEARED: FALSE

Nov 4 00:00:59 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_SEVERITY: 3

Nov 4 00:00:59 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_TIME: 2000-11-04T00:00:59Z

Nov 4 00:01:00 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Source ID: 15

Nov 4 00:01:00 vvdn_lpru user.err FAULT MANAGER[873]: sendData : Fault ID: 18

Nov 4 00:01:00 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_IS_CLEARED: FALSE

Nov 4 00:01:00 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_SEVERITY: 3

Nov 4 00:01:00 vvdn_lpru user.err FAULT MANAGER[873]: sendData : FAULT_TIME: 2000-11-04T00:01:00Z

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/notifications:create-subscription" with ID 1 priority 0 for 1 subscribers.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/notifications:create-subscription" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 1 priority 0 succeeded.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 1 event new RPC.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Published event "rpc" "/ietf-netconf:get-config" with ID 2 priority 0 for 1

subscribers.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Processing "/ietf-netconf:get-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Event "rpc" with ID 2 priority 0 succeeded.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Resolving unresolved data nodes and their constraints...

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: All data nodes and constraints resolved.

Nov 4 00:01:01 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 1 event new RPC.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 1 event new RPC.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: Session 1: thread 1 event session terminated.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: There are no subscribers for "ietf-netconf-notifications" notifications.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: Generated new event (netconf-session-end).

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: Call Home client "default-client" session terminated.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: Trying to connect via IPv4 to 192.168.214.234:4334.

Nov 4 00:01:02 vvdn_lpru daemon.info netopeer2-server[858]: getsockopt() error (Connection refused).

Nov 4 00:01:02 vvdn_lpru authpriv.debug sshd[2229]: pam_unix(sshd:account): account operator has password changed in future

Nov 4 00:01:02 vvdn_lpru auth.info sshd[2229]: Accepted password for operator from 192.168.214.234 port 43202 ssh2

Nov 4 00:01:02 vvdn_lpru authpriv.info sshd[2229]: 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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