



@ 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 192.168.22.37 --port 830 --login operator

Interactive SSH Authentication

Type your password:

Password:

> status

Current NETCONF session:

ID : 2

Host : 192.168.22.37

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

 $urn: ietf: params: netconf: capability: validate: 1.1 \ urn: ietf: params: netconf: capability: startup: 1.0 \ urn: ietf: params: netconf: capability: xpath: 1.0 \ urn: ietf: params: netcon$

urn: ietf: params: netconf: capability: with-defaults: 1.0? basic-mode = explicit & also-supported = report-all, report-all-tagged, trim, explicit & also-supported = report-all-tagged, trim

 $urn: ietf: params: netconf: capability: notification: 1.0 \ urn: ietf: params: netconf: capability: interleave: 1.0 \ urn: ietf: params: netconf: netc$

urn: ietf: params: xml: ns: yang: ietf-yang-metadata? module = ietf-yang-metadata & revision = 2016-08-05 + 1000

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 = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = 2013-09-29 & features = writable-running, candidate, rollback-on-error, valid = ietf-netconf & revision = ietf-netconf & revision

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>
- </users>
- </data>



- Oct 29 23:06:46 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.
- Oct 29 23:06:46 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).
- Oct 29 23:06:47 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.
- Oct 29 23:06:47 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Successfully connected to 192.168.22.79:4334 over IPv4.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Session 119 (user "root", CID 1) created.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-service" of subtype "ssh-userauth".
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-auth" of subtype "password".
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: User "operator" authenticated.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-channel-open" of subtype "session".
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-channel" of subtype "subsystem".
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Call Home client "default-client" session 2 established.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Session 120 (user "root", CID 1) created.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: There are no subscribers for "ietf-netconf-notifications" notifications.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Generated new event (netconf-session-start).
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get" with ID 4 priority 0 for 1 subscribers.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 4 priority 0 succeeded.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.
- Oct 29 23:06:48 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 4 event new RPC.
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get" with ID 5 priority 0 for 1 subscribers.
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 3.
- Oct 29 23:06:49 mcb1 user.notice fw_manager[1065]: RPC #3 recieved. xpath -> /o-ran-software-management:software-inventory
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Event "operational" with ID 3 succeeded.
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...
- Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 5 priority 0 succeeded.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: 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 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 0 event new RPC.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get-config" with ID 2 priority 0 for 1 subscribers.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 2 priority 0 succeeded.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: There is no leafref

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

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: There is no leafref

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

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:49 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 4 event new RPC.

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/notifications:create-subscription" with ID 2 priority 0 for 1 subscribers.

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Processing "/notifications:create-subscription" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 2 priority 0 succeeded.

Oct 29 23:06:54 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 4 event new RPC.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get-config" with ID 3 priority 0 for 1 subscribers.



Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get-config" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 1 event new RPC.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 1 event new RPC.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Session 2: thread 1 event session terminated.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Generated new event (netconf-session-end).

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Call Home client "default-client" session terminated.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.

Oct 29 23:06:55 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).

Oct 29 23:06:55 mcb1 auth.info sshd[4886]: Accepted password for operator from 192.168.22.79 port 51270 ssh2

Oct 29 23:06:55 mcb1 authpriv.info sshd[4886]: 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>.</filter></data></data></rpc-reply>				
******* Actual Result ************************************				
Retrieval with filter applied	=	SUCCESS		