@ **FILE NAME:** **M_CTC_ID_026.txt**

@ **TEST SCOPE:** **M PLANE O-RAN CONFORMANCE**

@ **Software Release for MCB1:** **v1.0.1**

Test Description : This scenario is MANDATORY.

This test validates eAxC configuration and validation. The test scenario is intentionally limited in scope to be applicable to any O-RU hardware design.

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

Chapter 6 Configuration Management

Chapter 12.2 User plane message routing

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********** 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   : 6

      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: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,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

==

Ok

Error occured in line number 134

==
SYSTEM LOGS
==

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Successfully connected to 192.168.22.79:4334 over IPv4.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Session 210 (user "root", CID 1) created.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-auth" of subtype "password".

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: User "operator" authenticated.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-channel-open" of subtype "session".

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Call Home client "default-client" session 6 established.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Session 211 (user "root", CID 1) created.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Generated new event (netconf-session-start).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get" with ID 11 priority 0 for 1 subscribers.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get" "rpc" event with ID 11 priority 0 (remaining 1 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 11 priority 0 (remaining 0 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 11 priority 0 succeeded.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 4 event new RPC.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get" with ID 12 priority 0 for 1 subscribers.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get" "rpc" event with ID 12 priority 0 (remaining 1 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 6.

Oct 29 23:19:56 mcb1 user.notice fw_manager[1065]: RPC #6 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Event "operational" with ID 6 succeeded.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 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 23:19:56 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 23:19:56 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 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 12 priority 0 (remaining 0 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 12 priority 0 succeeded.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 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 23:19:56 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 23:19:56 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 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 1 event new RPC.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get-config" with ID 11 priority 0 for 1 subscribers.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get-config" "rpc" event with ID 11 priority 0 (remaining 1 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 11 priority 0 (remaining 0 subscribers).

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 11 priority 0 succeeded.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:56 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 23:19:56 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 23:19:56 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:56 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 0 event new RPC.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:get-config" with ID 12 priority 0 for 1 subscribers.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:get-config" "rpc" event with ID 12 priority 0 (remaining 1 subscribers).

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 12 priority 0 (remaining 0 subscribers).

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 12 priority 0 succeeded.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:19:57 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 23:19:57 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 23:19:57 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:19:57 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 0 event new RPC.

Oct 29 23:20:00 mcb1 user.notice SYNCMNGR[1311]: Received message from S-Plane

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/notifications:create-subscription" with ID 6 priority 0 for 1 subscribers.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Processing "/notifications:create-subscription" "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Successful processing of "rpc" event with ID 6 priority 0 (remaining 0 subscribers).

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Event "rpc" with ID 6 priority 0 succeeded.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 0 event new RPC.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: All data nodes and constraints resolved.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Published event "rpc" "/ietf-netconf:edit-config" with ID 6 priority 0 for 1 subscribers.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Resolving unresolved data nodes and their constraints...

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Leafref "/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name = current()/../interface-name]/o-ran-interfaces:vlan-id" of value "448" points to a non-existing leaf. (/o-ran-mplane-int:mplane

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Leafref "/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name = current()/../interface-name]/o-ran-interfaces:vlan-id" of value "448" points to a non-existing leaf. (/o-ran-mplane-int:mplane

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Leafref "/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name = current()/../interface-name]/o-ran-interfaces:vlan-id" of value "448" points to a non-existing leaf.

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Validation failed.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Failed processing of "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Leafref "/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name = current()/../interface-name]/o-ran-interfaces:vlan-id" of value "448" points to a non-existing leaf.

Oct 29 23:20:02 mcb1 daemon.warn netopeer2-server[980]: Event "rpc" with ID 6 priority 0 failed (Validation failed).

Oct 29 23:20:02 mcb1 daemon.err netopeer2-server[980]: Failed to send an RPC (User callback failed).

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 4 event new RPC.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 4 event reply error.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 4 event new RPC.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Session 6: thread 4 event session terminated.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Generated new event (netconf-session-end).

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Call Home client "default-client" session terminated.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.22.79:4334.

Oct 29 23:20:02 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).

Oct 29 23:20:02 mcb1 auth.info sshd[13895]: Accepted password for operator from 192.168.22.79 port 38852 ssh2

Oct 29 23:20:02 mcb1 authpriv.info sshd[13895]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : The O-RU NETCONF Sever responds with a \<rpc-reply\> message indicating successful completion of requested procedure.

```
============================================================================
   ***************** Actual Result *****************
============================================================================


============================================================================
******************* FAIL_REASON *******************
============================================================================
ERROR
 error-type  :  application
 error-tag  :  operation-failed
 error-severity  :  error
 path  :  /o-ran-mplane-int:mplane-info/m-plane-interfaces/m-plane-sub-interfaces[interface-name='eth1.448'][sub-interface='448']/sub-interface
 Description'  :  Leafref "/ietf-interfaces:interfaces/ietf-interfaces:interface[ietf-interfaces:name =
current()/../interface-name]/o-ran-interfaces:vlan-id" of value "448" points to a non-existing leaf.
============================================================================
```

O-RU configurability test (positive case)   =   FAIL

```
============================================================================


============================================================================
```

O-RU configurability test (positive case)   =   FAIL

```
============================================================================
```