@ **FILE NAME:** **M_CTC_ID_013.txt**

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

@ **Software Release for MC1:** **v1.0.5**

Test Description : The minimum functions of the TER described in section 2.1 that support validation of the M-Plane are operational, configured and connected to the O-RU

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

==

> listen --ssh --login operator

Waiting 60s for an SSH Call Home connection on port 4334...

The authenticity of the host '::ffff:192.168.4.43' cannot be established.

ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83

Interactive SSH Authentication done.

> status

Current NETCONF session:

ID   : 22

Host   : 192.168.4.43

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

===

Step 1 The TER NETCONF Client sends the O-RU NETCONF Server a command to get the active-alarm-list.

===

===

> get --filter-xpath /o-ran-fm:active-alarm-list/active-alarms

===

===

list indices must be integers or slices, not str

===

Error occured in line number 156

```
================================================================================
  ############ SYSTEM LOGS #############
================================================================================
```

Oct 29 22:42:37 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 22:42:37 mcb1 daemon.info netopeer2-server[986]: getsockopt() error (Connection refused).

Oct 29 22:42:38 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 22:42:38 mcb1 daemon.info netopeer2-server[986]: getsockopt() error (Connection refused).

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Successfully connected to 192.168.4.15:4334 over IPv4.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Session 378 (user "root", CID 1) created.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-auth" of subtype "password".

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: User "operator" authenticated.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel-open" of subtype "session".

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Call Home client "default-client" session 22 established.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Session 379 (user "root", CID 1) created.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Generated new event (netconf-session-start).

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get" with ID 52 priority 0 for 1 subscribers.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get" "rpc" event with ID 52 priority 0 (remaining 1 subscribers).

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 52 priority 0 (remaining 0 subscribers).

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 52 priority 0 succeeded.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 3 event new RPC.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get" with ID 53 priority 0 for 1 subscribers.

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get" "rpc" event with ID 53 priority 0 (remaining 1 subscribers).

Oct 29 22:42:39 mcb1 daemon.info netopeer2-server[986]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 9.

Oct 29 22:42:39 mcb1 user.notice fw_manager[1067]: RPC #9 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Event "operational" with ID 9 succeeded.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 53 priority 0 (remaining 0 subscribers).

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 53 priority 0 succeeded.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 0 event new RPC.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get-config" with ID 10 priority 0 for 1 subscribers.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get-config" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 10 priority 0 succeeded.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: 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 22:42:40 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:40 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 1 event new RPC.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/notifications:create-subscription" with ID 5 priority 0 for 1 subscribers.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Processing "/notifications:create-subscription" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 5 priority 0 succeeded.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 1 event new RPC.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Published event "rpc" "/ietf-netconf:get" with ID 54 priority 0 for 1 subscribers.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Processing "/ietf-netconf:get" "rpc" event with ID 54 priority 0 (remaining 1 subscribers).

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Published event "operational" "/o-ran-fm:active-alarm-list/active-alarms" with ID 4.

Oct 29 22:42:42 mcb1 user.info FAULT MANAGEMENT[1046]:   ========== DATA FOR "o-ran-fm"

"/o-ran-fm:active-alarm-list/active-alarms" REQUESTED======================

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Event "operational" with ID 4 succeeded.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Successful processing of "rpc" event with ID 54 priority 0 (remaining 0 subscribers).

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Event "rpc" with ID 54 priority 0 succeeded.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Resolving unresolved data nodes and their constraints...

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: All data nodes and constraints resolved.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 2 event new RPC.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 2 event new RPC.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Session 22: thread 2 event session terminated.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Generated new event (netconf-session-end).

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Call Home client "default-client" session terminated.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: Trying to connect via IPv4 to 192.168.4.15:4334.

Oct 29 22:42:42 mcb1 daemon.info netopeer2-server[986]: getsockopt() error (Connection refused).

Oct 29 22:42:42 mcb1 auth.info sshd[22566]: Accepted password for operator from 192.168.4.15 port 33746 ssh2

Oct 29 22:42:42 mcb1 authpriv.info sshd[22566]: 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 at least the same alarm as reported in measurement atleast alarm 17: No external sync source

===

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

===

===

****************** FAIL_REASON *******************

===

list indices must be integers or slices, not str

===

Retrieval of Active Alarm List   =   FAIL

===