@ FILE NAME: M_CTC_ID_013.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1:   v1.0.1

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

==

********** **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   : 4

        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 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

==

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

Oct 30 01:00:32 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 01:00:32 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 01:00:33 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 01:00:33 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Successfully connected to 192.168.170.85:4334 over IPv4.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Session 140 (user "root", CID 1) created.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-auth" of subtype "password".

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: User "operator" authenticated.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-channel-open" of subtype "session".

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Call Home client "default-client" session 4 established.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Session 141 (user "root", CID 1) created.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Generated new event (netconf-session-start).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get" with ID 9 priority 0 for 1 subscribers.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 9 priority 0 succeeded.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 4 event new RPC.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get" with ID 10 priority 0 for 1 subscribers.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 5.

Oct 30 01:00:34 mcb1 user.notice fw_manager[1065]: RPC #5 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Event "operational" with ID 5 succeeded.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 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 01:00:34 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 01:00:34 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 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 10 priority 0 succeeded.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:34 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 01:00:34 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 01:00:34 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 01:00:34 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:34 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 3 event new RPC.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get-config" with ID 5 priority 0 for 1 subscribers.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get-config" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 5 priority 0 succeeded.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:35 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 01:00:35 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 01:00:35 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:35 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 4 event new RPC.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/notifications:create-subscription" with ID 4 priority 0 for 1 subscribers.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Processing "/notifications:create-subscription" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 4 priority 0 succeeded.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 3 event new RPC.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Published event "rpc" "/ietf-netconf:get" with ID 11 priority 0 for 1 subscribers.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Processing "/ietf-netconf:get" "rpc" event with ID 11 priority 0 (remaining 1 subscribers).

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Published event "operational" "/o-ran-fm:active-alarm-list/active-alarms" with ID 3.

Oct 30 01:00:36 mcb1 user.info FAULT MANAGEMENT[1044]:   ========== DATA FOR "o-ran-fm"

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

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Event "operational" with ID 3 succeeded.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Successful processing of "rpc" event with ID 11 priority 0 (remaining 0 subscribers).

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Event "rpc" with ID 11 priority 0 succeeded.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Resolving unresolved data nodes and their constraints...

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: All data nodes and constraints resolved.

Oct 30 01:00:36 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 3 event new RPC.

Oct 30 01:00:39 mcb1 user.notice SYNCMNGR[1311]: Received message from S-Plane

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 3 event new RPC.

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: Session 4: thread 3 event session terminated.

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: Generated new event (netconf-session-end).

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: Call Home client "default-client" session terminated.

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: Trying to connect via IPv4 to 192.168.170.85:4334.

Oct 30 01:00:41 mcb1 daemon.info netopeer2-server[982]: getsockopt() error (Connection refused).

Oct 30 01:00:41 mcb1 auth.info sshd[16487]: Accepted password for operator from 192.168.170.85 port 52634 ssh2

Oct 30 01:00:41 mcb1 authpriv.info sshd[16487]: 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 ******************
===============================================================================
```

<?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">
 <active-alarm-list xmlns="urn:o-ran:fm:1.0">
  <active-alarms>
   <fault-id>18</fault-id>
   <fault-source>Module or antenna line</fault-source>
   <affected-objects>
    <name>Sync Module</name>
   </affected-objects>
   <fault-severity>CRITICAL</fault-severity>
   <is-cleared>false</is-cleared>
   <fault-text>Synchronization Error</fault-text>
   <event-time>2103-10-29T23:49:29Z</event-time>
  </active-alarms>
 </active-alarm-list>
</data>

```
===============================================================================
```
Retrieval of Active Alarm List   =   FAIL
```
===============================================================================
```