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

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

@ **Software Release for LPRU:** **v1.0.16**

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 ***********

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> listen --ssh --login operator

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

    The authenticity of the host '::ffff:192.168.174.37' 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   : 6

Host   : 192.168.174.42

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 --filter-xpath /ietf-netconf-notifications:***

===

Ok

==

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

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==

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

==

```xml
<?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</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>2000-11-04T00:00:54Z</event-time>
  </active-alarms>
  <active-alarms>
   <fault-id>23</fault-id>
   <fault-source>Module</fault-source>
   <affected-objects>
    <name>Module</name>
   </affected-objects>
   <fault-severity>MAJOR</fault-severity>
   <is-cleared>false</is-cleared>
   <fault-text>FPGA SW update failed</fault-text>
   <event-time>2000-11-04T00:07:41Z</event-time>
  </active-alarms>
 </active-alarm-list>
</data>
```

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

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

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

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

########### SYSTEM LOGS #############

===

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

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

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===

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

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<?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</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>2000-11-04T00:00:54Z</event-time>
  </active-alarms>
  <active-alarms>
   <fault-id>23</fault-id>
   <fault-source>Module</fault-source>
   <affected-objects>
    <name>Module</name>
   </affected-objects>
   <fault-severity>MAJOR</fault-severity>
   <is-cleared>false</is-cleared>
   <fault-text>FPGA SW update failed</fault-text>
   <event-time>2000-11-04T00:07:41Z</event-time>
  </active-alarms>
 </active-alarm-list>
</data>

===

Retrieval of Active Alarm List   =   FAIL

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