



@ FILE NAME: M_CTC_ID_008.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1: v1.0.7

Test Description : This test validates that the O-RU manages the connection supervision process correctly.

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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 '192.168.17.37' 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 : 3

Host : 192.168.17.37

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

=====

*****step 1 and 2 Retrival of ru information with filter *****

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=====

> subscribe

=====

Ok

=====

TER NETCONF Client responds with <rpc supervision-watchdog-reset></rpc> to the O-RU NETCONF Server

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=====

> user-rpc

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***** Replace with below xml *****

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```
<supervision-watchdog-reset xmlns="urn:o-ran:supervision:1.0">
  <supervision-notification-interval>10</supervision-notification-interval>
  <guard-timer-overhead>10</guard-timer-overhead>
</supervision-watchdog-reset>
```

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O-RU NETCONF Server sends a reply to the TER NETCONF Client
<rpc-reply><next-update-at>date-time</next-update-at></rpc-reply>

=====

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:1f678f67-fa6b-47b6-9942-d0a721bd9bd2"><next-update-at
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:06:24Z</next-update-at></nc:rpc-reply>
```

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***** Looped for 30 iterations *****

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=====

1th iteration

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```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:dd9f71fe-83ff-4efe-bd2a-7830013d383b"><next-update-at
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:06:24Z</next-update-at></nc:rpc-reply>
```

=====

2th iteration

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```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:31b697ae-e892-4efd-b010-e2d1cb04b2cf"><next-update-at
```

```
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:06:37Z</next-update-at></nc:rpc-reply>
```

3th iteration

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:ab832d2b-1d2f-4428-b118-10abd42c206c"><next-update-at
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:06:51Z</next-update-at></nc:rpc-reply>
```

4th iteration

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:0355b10f-c9d9-4f85-bd40-63caf3bd35a1"><next-update-at
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:07:04Z</next-update-at></nc:rpc-reply>
```

5th iteration

```
<nc:rpc-reply xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="urn:uuid:d44a7790-12cb-4ef9-9bc5-1be69b9b85f8"><next-update-at
xmlns="urn:o-ran:supervision:1.0">2000-11-04T00:07:18Z</next-update-at></nc:rpc-reply>
```

6th iteration

Unexpected session close

Error occured in line number 202

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

Expected Result : TER NETCONF Client can change the value of the supervision timer in the supervision watchdog reset message. The O-RU NETCONF server must adjust the timer accordingly if this optional test is performed.

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SYSTEM LOGS

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SYSTEM LOGS

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SYSTEM LOGS

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SYSTEM LOGS

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

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=====
***** FAIL_REASON *****
=====
```

Unexpected session close

```
=====
M-Plane Connection Supervision (positive case) = FAIL
=====
```