



@ FILE NAME: M_CTC_ID_002.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1: v1.0.1

This scenario validates that the O-RU properly executes the session establishment procedure with VLANs and a DHCPv4 server. This test is applicable to IPv4 environments. Two negative flows are included in this test:

The TER NETCONF Client does not trigger a SSH session establishment in reaction to Call Home initiated by THE O-RU NETCONF Server.

Interfaces Present in DU Side

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    ether 64:9d:99:ff:f5:12 txqueuelen 1000 (Ethernet)
    RX packets 342127 bytes 91518421 (91.5 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 293124 bytes 44981470 (44.9 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 64:9d:99:ff:f5:13 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.25.96.163 netmask 255.255.254.0 broadcast 172.25.97.255
    inet6 fe80::a7de:bea9:9091:a5f0 prefixlen 64 scopeid 0x20<link>
    ether b4:2e:99:60:73:8c txqueuelen 1000 (Ethernet)
    RX packets 1691033 bytes 374475742 (374.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4523069 bytes 5852231393 (5.8 GB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 16 memory 0xb1400000-b1420000

eth0.485: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.128.72 netmask 255.255.255.0 broadcast 192.168.128.255
    inet6 fe80::669d:99ff:feff:f512 prefixlen 64 scopeid 0x20<link>
    ether 64:9d:99:ff:f5:12 txqueuelen 1000 (Ethernet)
    RX packets 66 bytes 6197 (6.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2380 bytes 452349 (452.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0.490: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.49.88 netmask 255.255.255.0 broadcast 192.168.49.255
    inet6 fe80::669d:99ff:feff:f512 prefixlen 64 scopeid 0x20<link>
    ether 64:9d:99:ff:f5:12 txqueuelen 1000 (Ethernet)
    RX packets 332229 bytes 86207421 (86.2 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 290643 bytes 44184045 (44.1 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
```

loop txqueuelen 1000 (Local Loopback)
RX packets 409020 bytes 7232059453 (7.2 GB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 409020 bytes 7232059453 (7.2 GB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

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DHCP Status

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DHCP Status

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Error occured in line number 174

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

```
Oct 30 01:25:40 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.49.88:4334.
Oct 30 01:25:40 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).
Oct 30 01:25:41 mcb1 daemon.info netopeer2-server[980]: Trying to connect via IPv4 to 192.168.49.88:4334.
Oct 30 01:25:41 mcb1 daemon.info netopeer2-server[980]: getsockopt() error (Connection refused).
Oct 30 01:25:41 mcb1 auth.info sshd[14148]: Accepted password for root from 192.168.49.88 port 44880 ssh2
Oct 30 01:25:41 mcb1 authpriv.info sshd[14148]: pam_unix(sshd:session): session opened for user root by (uid=0)
```

Expected Result : The TER NETCONF Client and O-RU NETCONF Server exchange capabilities through NETCONF <hello> messages.

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

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***** FAIL_REASON *****

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Transport and Handshake in IPv4 Environment (negative case: refuse SSH Connection) =
FAIL

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