

O-DU High Tests with Stubs

Delivery Status



DO NOT EDIT

Only the Integration PTL should edit the delivery status table to track the release validation progress

		OTF	OAM	NONRTRIC	RICP	RICAPP	O-DU	O-CU	Test Result	Notes
Deployment Artifacts	Docker Container									O-DU-RIC-STUB is not available in OSC Nexus
	Helm Charts									
	Deployment scripts									
E2E Flows	E2 UE Attach Procedure									The CU stub and RIC stub is also used in the O-DU-high and O-DU-low integrated flow

This page describes running O-DU High using test stubs, namely CU Stub and RIC Stub. O-DU High also uses Phy Stub in the absence of O-DU Low. However, Phy Stub is built as a part of the O-DU High image itself.

Execution of below steps yields successful UE Attach procedure and message exchanges required for Traffic Steering use-case on the E2 interface. These can be verified on Wireshark by capturing SCTP packets.

1. Prepare environment

```
sudo apt-get install libpcap-dev libsctp-dev
```

2. Cloning code

```
mkdir odu_high
cd odu_high
git clone "https://gerrit.o-ran-sc.org/r/o-du/l2"
```

3. Compilation of O-DU

```
cd odu_high/l2/build/odu
make clean_odu odu MACHINE=BIT64 MODE=FDD
```

4. Compilation of CU Stub

```
cd odu_high/l2/build/odu
make clean_cu cu_stub NODE=TEST_STUB MACHINE=BIT64 MODE=FDD
```

5. Compilation of RIC Stub

```
cd odu_high/l2/build/odu
make clean_ric ric_stub NODE=TEST_STUB MACHINE=BIT64 MODE=FDD
```

6. Execution - Assign IP addresses

```
ifconfig <interface name>:ODU "192.168.130.81"
ifconfig <interface name>:CU_STUB "192.168.130.82"
ifconfig <interface name>:RIC_STUB "192.168.130.80"
```

7. Running CU Stub

```
cd odu_high/l2/bin/cu_stub
sudo ./cu_stub
```

8. Running RIC Stub

```
9. cd odu_high/l2/bin/ric_stub  
sudo ./ric_stub
```

10. Running O-DU

```
cd odu_high/l2/bin/odu  
sudo ./odu
```

Note:

- a. Each of the above binaries must be run in separate terminals
- b. CU Stub and RIC Stub images must be run before O-DU image.