



OTIC-Summit Workshop Asia & Pacific OTIC by ritt7layers

Shi Yu

2023-08-23

Contents



Why O-RAN?

How O-RAN?

The Challenge

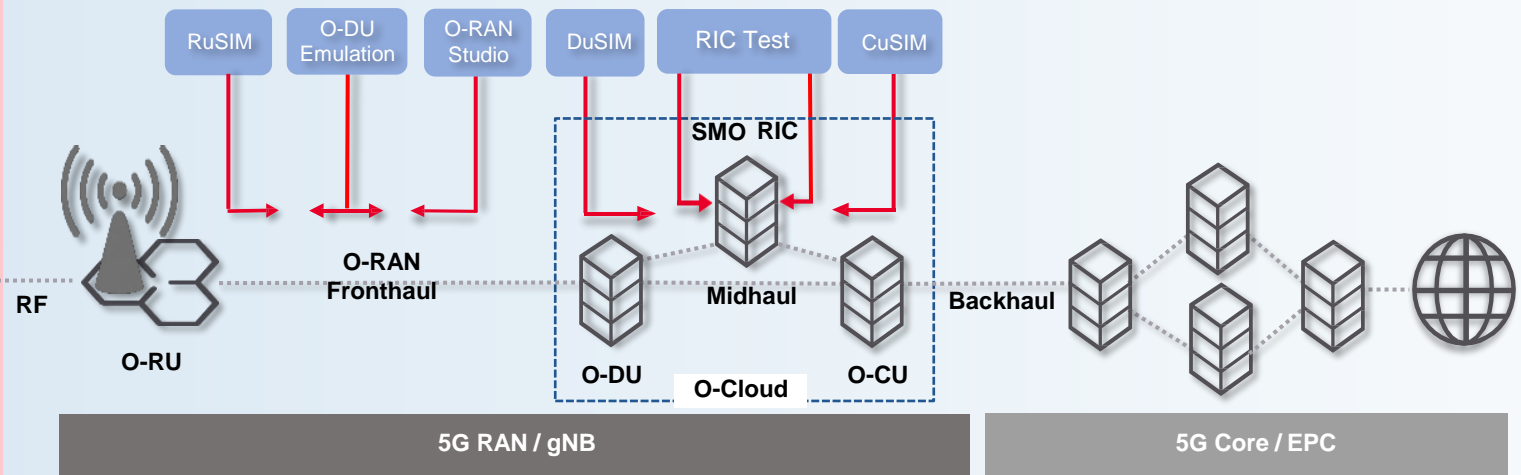
The Suggestion

Why O-RAN?

Since the unprecedented demands for agility, flexibility, and extendibility of networks due to multiple connections and diversified businesses, the transformation of networks to virtualization and cloud has become an inevitable trend.

- Smart Healthcare
- Smart Transportation
- Industrial Internet
- Intelligent security
- UAV
- Mechanical dog
- VR\AR\MR

UEs



GCF/PTCRB VS O-RAN

GCF/PTCRB is mainly for 'ToC' market

Vision and Mission

In all its activities, GCF is guided by the following principles and objectives:

VISION:

To lead the global ecosystem that facilitates interoperable devices, networks and services to enable the high quality, reliable, and secure wireless communications demanded by users and industries across the globe.

MISSION:

Our mission is to enable the 3 steps of certification: Test. Certify. Connect.

- To enable industry agreed **Testing** of mobile and IoT products.
- To manage industry agreed programmes to **Certify** mobile and IoT products.
- To provide assurance to network operators and industrial users to give them the confidence to **Connect** GCF certified products to networks and services.

Test. Certify. Connect.



O-RAN is mainly for 'ToB/G' market

Transforming Radio Access Networks Towards Open, Intelligent, Virtualized and Fully Interoperable RAN



How O-RAN?

The Advantage;

O-RAN could be a necessary supplementary strategy/way or evolution trendy in NPN (SNPN & PNI-NPN).

The hurdle;

The potential operator of O-RAN could be

@ Traditional Heavy Operator

@ New Light Operator

@ New Industry System Integrator

@ Innovation Player in Software/OS/Platform

how discrete interest and concerns could be settled properly is the question!!!

The Challenge

@ If **O-RAN/TIFG** could organize a dedicated group or team to develop and validate the test cases automated for commercial Test/certification usage; This is a useful way to ensure the test could be done consistently in each O-TIC. **Automated & Continuous Testing is the Key to O-RAN Proliferation.**

@ If the **Operator** could/will accept the O-RAN/O-TIC certified DUT as the basic evidence to access their market; **That is, Test once could access globally.**

@ How **O-RAN/TIFG/O-TIC/manufacturers**

-> to ensure the HW/SW version of each certified DUT and E2E prototype will be used into the practical usage; **This shall be a basic request for purchase and installation.**

-> could support the operator to tackle the 'Faster, Frequent, Multi-Vendor Releases', **this is a continuous requirement during the operation.**

@ How to support small players such as **System integrator** or **single manufacture** to setup and run the O-RAN scenario smoothly; **That is, a lot of SME shall be supported widely.**

@ Since Open architecture, how to ensure stability and security. **This part shall be enhanced;**

The Suggestion

@ The O-RAN **certified product** could be recognized and be acquired by **O-RAN network operator** as the basic evidence to access to their network system integration.

@ O-RAN promote the successful usage from different type of Operators in O-RAN architecture, especially the cases from the **New Light Network, New Industry System Integrator**, and support/leads them to a more successful business.

@ O-RAN shall promote the E2E ECO-system, **KPI, Security** test.

Asia & Pacific OTIC by ritt7layers 's Extended & Planned Service

O-RAN Regulatory	O-RAN Industry	O-RAN Carrier	PTN Test	Antenna Performance Test	Carbon Reduction Audit	Consulting Service
<ul style="list-style-type: none"> To meet the local countries and regions's market access requirement worldwide. 	<ul style="list-style-type: none"> Conformance Interoperability End-to-End RIC Cybersecurity Energy Saving 	<ul style="list-style-type: none"> To Meet certain carrier's added function Validation & Verification 	<ul style="list-style-type: none"> High accuracy test scenario to meet the requirement in Position, Time & Navigation 	<ul style="list-style-type: none"> By using the Over The Air Test scenario to test the antenna performance with SISO & MIMO 	<ul style="list-style-type: none"> Enterprise carbon (ISO 14064) Product carbon (ISO 14067) 	<ul style="list-style-type: none"> To support the Domestic & Oversea manufacturers with a smooth Market Access Against with Standard and Market Entry.

We could provide one-stop Test & Certification & Consulting Services for O-RAN Subsystems including Regulatory, Industry, Carrier special requirement and other new extended field.



Any Question?