Japan ⬤TIC

Japan OTIC Issues O-RAN Interoperability (IOT) Badges
− Promoting Openness in Mobile Base Station Radio Equipment −

Japan OTIC (*1) conducted tests based on the specifications established by the O-RAN ALLIANCE (*3) (O-RAN specifications) under the condition that O-RU and O-DU/CU (*2) from different vendors were connected, and verified that they comply with the interoperability defined in the O-RAN specifications. Accordingly, Japan OTIC issued O-RAN Interoperability (IOT) badges (*4) for both devices to prove the compliance.

The issuance of O-RAN IOT badges by Japan OTIC is expected to expand opportunities for vendors to be adopted and enter the market, and for telecommunication operators to upgrade functions of their services and shorten development and deployment time, thereby contributing to the realization of a more open, reliable and secure 5G communications society in Japan and globally.

O-RAN Interoperability Test (IOT) Badge Overview

Certification/ Badge ID	Radio Access Technology under test	Device under test	Vendor name	Model name
JPOT250001	5G NR	O-RU	DENGYO Technology Co., Ltd.	NR878H4
	5G NR	O-DU/CU	Fujitsu Limited	TA04013-B835

*1 Japan OTIC (Open Testing and Integration Centre): The only OTIC in Japan established in December 2022 in Yokosuka Research Park in Yokosuka city which is jointly operated by: General Incorporated Association YRP R&D Promotion Committee, NTT DOCOMO, INC., KDDI CORPORATION, SoftBank Corp., and Rakuten Mobile, Inc.

OTIC is an organization established as a center for conducting testing and certification based on the specifications established by the O-RAN ALLIANCE (O-RAN specifications), with the approval of the ALLIANCE. OTIC is responsible for testing the compliance of each device that constitutes base station radio equipment for mobile communications business and its interfaces with the O-RAN specifications and issuing certification (certificates or badges) when the compliance is verified. It also acts as a center for the promoting Open RAN, including conducting activities to disseminate O-RAN specifications. 19 OTICs (*) have been established around the world.

*2 O-RU and O-DU/CU: These are devices that constitute base station radio equipment for mobile communications business, and are defined as O-RAN Radio Unit, O-RAN Distributed Unit, and O-RAN Central Unit, respectively, in the O-RAN specification. O-DU/CU is a device that integrates O-DU and O-CU.

*3 O-RAN ALLIANCE: An organization established by mobile network operators in 2018 to achieve a mobile communications network that is more intelligent, open, virtualized, and fully interoperable Radio Access Network (RAN), even when devices from different vendors are connected. It currently consists of 32 mobile network operators (*) and related vendors (*), in total 290 companies (*) from around the world. It conducts activities for defining the specifications (O-RAN specifications) of each device that constitutes the base station radio equipment for mobile network operators and its

interfaces.

*4 O-RAN Interoperability (IOT) Badge: One of the certifications (certificates and badges) issued by OTIC. OTIC conducts interoperability tests specified in the O-RAN specifications under the condition that two devices (e.g., O-RU and O-DU/CU) that constitute a base station radio equipment for mobile communications business are connected. If the devices are verified to be compliant with O-RAN specifications, OTIC issues certifications (badges).

*: O-RAN ALLIANCE Website https://www.o-ran.org/ as viewed on March 24, 2025

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