About OREX®



OREX is an Open RAN service brand launched by DOCOMO and its global partners, to provide customized and comprehensive Open RAN solutions for customers with system integration, vRAN, and software automation.

Role of New Joint Venture

OREX Services





Collaborations with OREX PARTNERS





OREX SAI

OREX PARTNERS







The world through 5G mobile networks



We contribute to the governments, businesses/industries, and the citizens by creating a 5G world.

Governments







- Accelerating innovation will improve economic growth and national strength
- Rapid response to diverse needs through efficient human resource development
- Job creation

Citizens



- Improves quality due to lower entering barriers for new vendors
- Cost reduction enables efficient operation

- Creating jobs and sustainable growth industries
- Eliminate disparities in education and medical care to create a safe society

OREX test environment





OREX Lab Yokohama

OREX "Exclusive" Lab

In order to prepare for the diverse combination of devices in Open-RAN and expand our ability to conduct inhouse testing, we established our own new lab in Yokohama last year.

DOCOMO R&D center in Japan

Provision of a speedy verification environment

Can start vRAN verification without preparing location, equipment, or personnel.

Prepare measurement devices (ex: load testing device) for verification, aimed at commercial use.

Verification with product configuration tailored to the requests of Global telecom operators.

Can freely combine a wide variety of OREX products to form a verification configuration. Can perform vRAN verification, connecting CN/RU operated by global telecom operators as testbeds.

Supports high-quality, commercial-grade verification

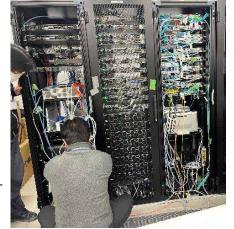
Based on many years of operational experience, DOCOMO provides unique verification design, verification items, and analysis skills.

Ensures end-to-end verification in an environment that includes everything from UE to CN.



IoT

Pre-Validation Knowledge & Technical Transfer





OREX Packages



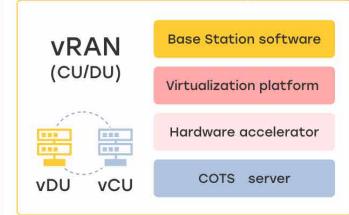


Virtualized radio base stations & wireless equipment

RU

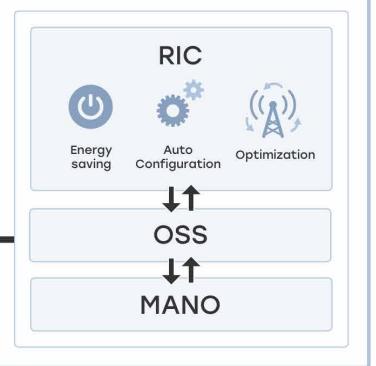






OREX SMO

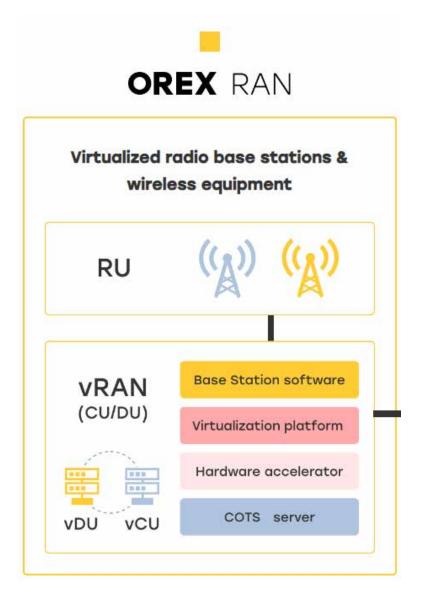
Software enabling autonomous equipment operation



OREX Services







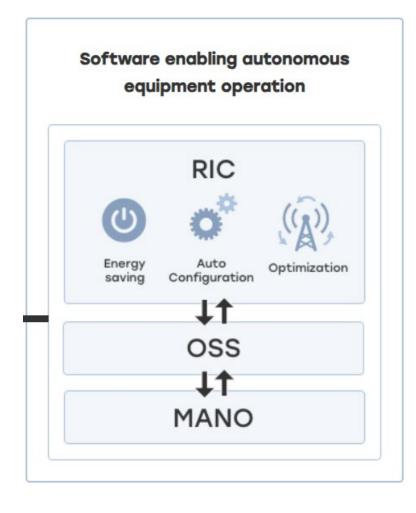
Key values

■ Cost-effective

base station achieved by the combination of multiple vendors







Key values

- Automated device operation enabled by software developed by NTT Corp; facilitate efficient design and smooth wireless access networks configuration and monitoring.
- Compliant with O-RAN ALLIANCE standard specifications.

OREX Services







Key values

■ Provide procurement and system integration for the adoption of OREX RAN, OREX SMO, and post-implementation operational support and maintenance.







Power consumption



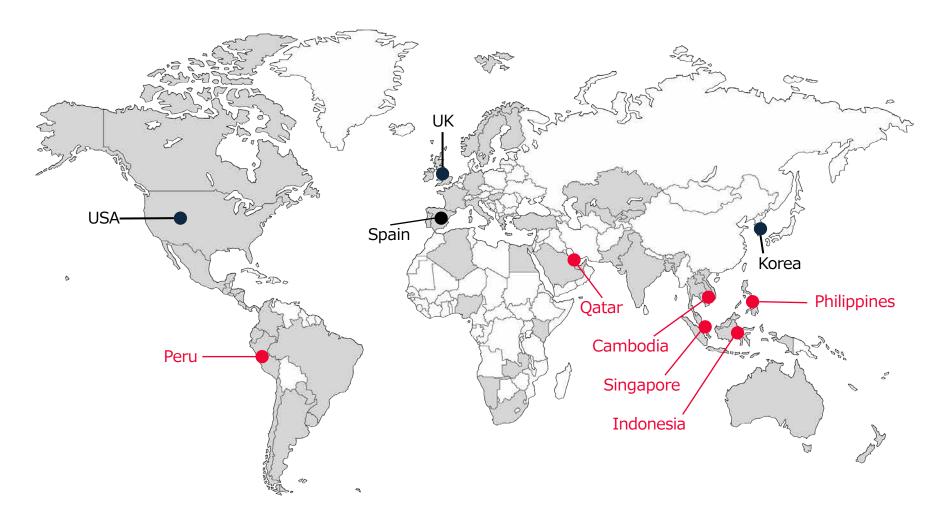
Network design operation



Business Progress of 2024



OREX leverages NEC's global footprints to build a strong cooperation system with our local partners. This enables us to flexibly and swiftly respond to each region.

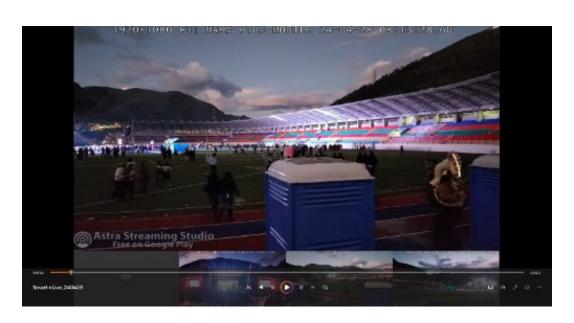


Open RAN trial in Peru (May 2024)

First outdoor, first cross vender field trial was successfully conducted with ENTEL by government support (Japan's Ministry of Internal Affairs and Communications, Peruvian government)



Worked with local partners to procure construction materials and build 5G networks



Multi-angle view (total 4) in the stadium via Open RAN NW

During the trial conducted by ENTEL, download speeds of 790 Mbps were achieved, far exceeding the speeds offered by current 4G networks.

Open RAN trial in Singapore (August 2024)



Successfully completed its OREX brand 5G Open RAN Lab Trial with StarHub Limited (StarHub), demonstrating its commercial readiness.



Moving forward, OREX SAI, the face of DOCOMO's Open RAN business, hopes to enhance the momentum in the collaboration efforts with StarHub towards commercial deployment and continue pushing the envelope while making Open RAN history.



The results were remarkable, with impressive throughput, low latency, and successful verification of voice and SMS services, all demonstrating the power and potential of Open RAN technology.

Open RAN trial in Indonesia (August 2024)



Open Ecosystem Technology Showcase in Indonesia's New Capital City, Nusantara. NTT DOCOMO/OREX SAI's contribution to successfully conduct 5G Open RAN trial.



A collaborative and intensive effort with Telkomsel, including multiple RU in different location to obtain indoor 5G coverage, enabled a reliable connectivity and stability in performance, to celebrate Indonesia's 79th Independence Day.



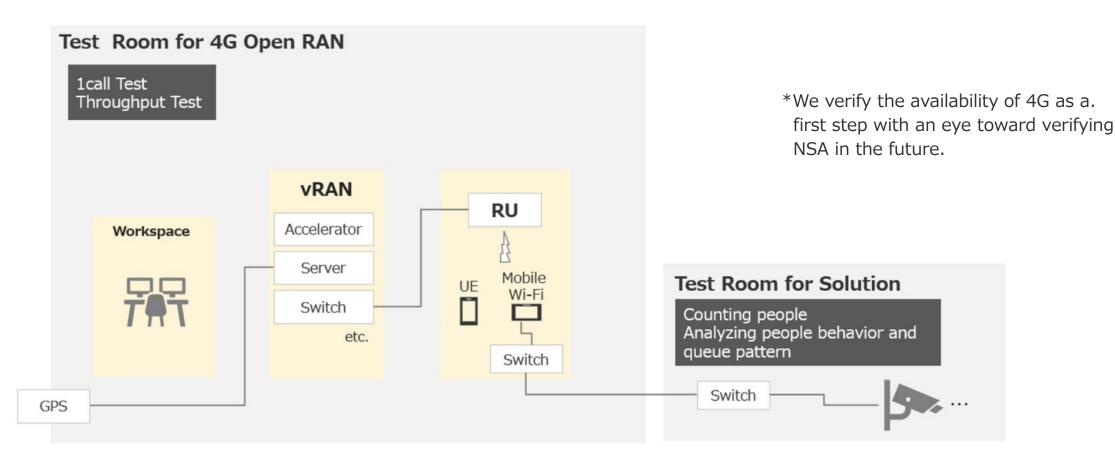


"Remote Work Support" was demonstrated which allows experts to support juniors to execute sophisticated work from remote location by using smart glass. This can not only mitigate shortage of workforce but also accelerate technical transfer, ensure safety and increase productivity.

Open RAN trial in Cambodia (March 2025, on-going.)



- OREX SAI, INC. will demonstrate 4G Open RAN* at a large commercial facility in the Kingdom of Cambodia.
- 4G Open RAN will be built to verify the availability of voice and data communications. In addition, camera solutions for commercial facilities provided by NTT DATA Malaysia Sdn. Bhd., will be tested to verify the use cases that can be realized by stable mobile networks.



Ref: Workshop in Cambodia (28 Oct 2024)



- The workshop on Open RAN and other topics will be held at the Cambodia Academy of Digital Technology (CADT) on October 28, 2024 (local time) with the aim of fostering local human resources.
- OREX SAI gave a lecture to local government officials, universities and telecom operators on the advantages
 of Open RAN technology.
- The event was well attended with about 200 participants and a large part of the venue was full. Many articles were published in Nikkei and local media.

Emerging Digital Technology powered by JAPAN -Current State of Open RAN and Cybersecurity



Open RAN trial in Indonesia (August 2024)



PT Solusi Sinergi Digital, Tbk ("SURGE"), a leading Indonesian digital infrastructure company, OREX SAI and NEC signed a MOU to aim to bring transformative 5G Fixed Wireless Access solutions powered by Open RAN technology



The MOU highlights a shared interest in fostering digital equity in Indonesia. With the ASEAN region's lowest fixed broadband penetration rate, Indonesia's 93 million households face significant challenges in accessing affordable and reliable internet. Through this collaboration, SURGE and OREX SAI aim to expand connectivity to underserved communities, providing high-speed internet access for up to 40 million households.

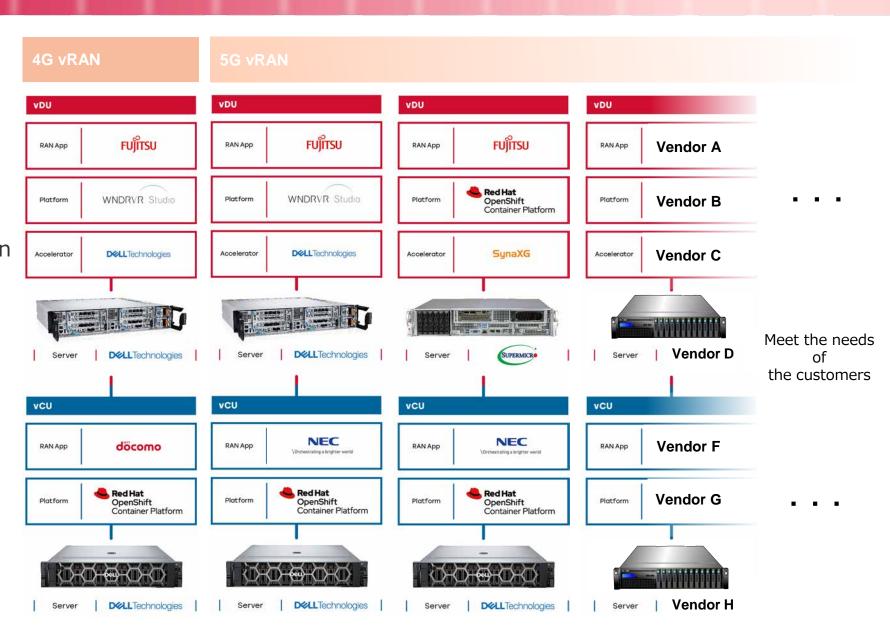
Providing high-quality and flexible networks.



OREX SAI can bring both SA and NSA vRAN network which includes NTT DOCOMO design philosophy.

Fujitsu and NEC are the 5G DU/CU component vendors which have deployment for long period in Japan DOCOMO network which is one of the most reliable systems in the world.

For 4G we will bring product developed by NTT DOCOMO.





We will strongly support the construction of Open RAN in countries around the world to realize a world without communication disparities.



Presentations



Day1

15:00-15:30 Converge! Network Digest (Hall 4 Stand 4E50)

Day2

10:00-10:45
O-RAN ALLIANCE SUMMIT Session 3
Towards Open RAN Deployments at Scale: Applying Operational Experience
(Hall8 Theatre 6)

16:15 - 16:45

The Evolution of Operator-Driven Networks: Unlocking New Opportunities with AI Open RAN (MWC Broadcast Stage)

MWC 2025 Booth Information



Welcome to OREX

MWC 2025 Booth Information









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