

NEWS RELEASE

NTT DOCOMO: OREX Announces OREX® Open RAN Service Lineup

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—Achieves TCO reduction of up to 30% and reduces power consumption by up to 50%—

TOKYO--(BUSINESS WIRE)-- NTT DOCOMO, INC. announced today its brand-new service lineup of OREX RAN, OREX SMO, and OREX Services, part of its commitment to becoming an Open RAN service provider for international telecom operators. Through this announcement, the company aims to provide clarity and mutual understanding among international telecom operators regarding the services offered by OREX, thereby facilitating its further expansion.

Open RAN services provided by OREX (OREX Packages) (Graphic: Business Wire)

OREX is DOCOMO's Open RAN

service brand, developed in

collaboration with multiple global vendors. It can be customized to address the unique challenges of each customer. The introduction of OREX Open RAN services is expected to reduce clients' total cost of ownership by up to 30% when the costs of initial setup and ongoing maintenance are taken into account. It can also reduce the time required for network design by up to 50%. Additionally, OREX reduces power consumption at base stations by up to 50%.

In the OREX RAN offering, OREX leverages the features of Open RAN, allowing the combination of various vendor products to provide base stations that are highly cost-effective. Leveraging the knowledge gained from DOCOMO's unique experience in building mobile networks with multiple equipment vendors since the 4G era, OREX integrates the strengths of its 13 OREX PARTNERS to offer an extensive range of virtualized radio base networks (vRANs) and radio units (RUs) compatible with the range of different frequencies in use in various countries. With the addition of seven new RU vendors, OREX is poised to meet the demands of an even larger customer base.

With OREX SMO, OREX provides software developed by NTT Corporation to facilitate the efficient design, configuration and monitoring of wireless access networks, enabling autonomous and optimized device operation. Adoption of OREX SMO allows the automatic optimization of network design, reducing design workload by up to 50%, particularly in complex cases that would normally take several weeks. It also reduces operational workload by automating tasks such as the adjustment of the antenna angle of base stations, which is critical for securing the coverage area. OREX SMO is compliant with the standard specifications defined by the O-RAN ALLIANCE.

OREX Services provide the procurement and system integration required for the adoption of OREX RAN and OREX SMO, as well as post-implementation operational support and maintenance.

On September 22, DOCOMO initiated the deployment and operation of OREX RAN and OREX SMO in its domestic 5G network, incorporating base station software from Fujitsu Limited, cloud platform from Wind River, hardware accelerator from NVIDIA, and COTS server with Intel processors. Building on the operational experience they have accumulated within DOCOMO's network, these companies plan to enhance OREX Open RAN services and expand their product combinations, striving to offer improved cost-effectiveness and reliability.

Going forward, DOCOMO will continue to support global telecom operators in their adoption of Open RAN with its new OREX offerings, strengthening its cooperation with global partners to make Open RAN a reality. In addition, DOCOMO will leverage the technology by applying the All-Photonics Network to transport network in Open RAN, following the concept of the Innovative Optical and Wireless Network (IOWN) promoted by the NTT Group. It will also utilize low-power servers equipped with photonics-electronics convergence technology and integrate OREX SMO with IOWN's Cognitive Foundation.

OREX is a trademark of NTT DOCOMO, INC.

For more detailed information, please refer to the full press release available at
www.nttdocomo.co.jp/press/2020/09/22/orex.html

About NTT DOCOMO

NTT DOCOMO, Japan's leading mobile operator with over 87 million subscriptions, is one of the world's foremost contributors to 3G, 4G and 5G mobile network technologies. Beyond core communications services, DOCOMO is challenging new frontiers in collaboration with a growing number of entities ("+d" partners), creating exciting and convenient value-added services that change the way people live and work. Under a medium-term plan toward 2020 and beyond, DOCOMO is pioneering a leading-edge 5G network to facilitate innovative services that will amaze and inspire customers beyond their expectations.

<https://www.nttdocomo.ne.jp/english/>

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