

<https://www.ntt-review.jp/archive/2024/202412.html>



View from the Top

- Ryota Kitamura, Representative Member of the Board, President and CEO, NTT WEST

Front-line Researchers

- Yasushi Takatori, Senior Distinguished Researcher, NTT Access Network Service Systems Laboratories

Rising Researchers

- Yasuhiro Fujiwara, Distinguished Researcher, NTT Communication Science Laboratories

Feature Articles

Network Architecture in the 6G/IOWN Era: Inclusive Core

- Network Architecture in the 6G/IOWN Era: Inclusive Core
- In-network Service Acceleration Platform (ISAP)
- Self-sovereign Identity (SSI) Infrastructure for Reliable Identity Data Distribution in the 6G/IOWN Era
- Cooperative Infrastructure Platform to Accommodate Mission-critical CPS Services

Global Standardization Activities

- Report of the Fifth Meeting of ITU-T Study Group 5 (Electromagnetic Field, Environment, Climate Action, Sustainable Digitalization, and Circular Economy) Held in Wroclaw, 17–21 June 2024

Practical Field Information about Telecommunication Technologies

- Case Study of Malfunction in Metallic Subscriber Loop Carrier Equipment

View from the Top

Ryota Kitamura, Representative Member of the Board, President and CEO, NTT WEST

▼Abstract

Under the corporate slogan "Toward Tomorrow—with you, with ICT.", NTT WEST continues to take on challenges for creating an exciting future and is striving to make local communities sustainable by creating new value as a value-creation partner. We spoke to Ryota Kitamura, president and chief executive officer of NTT WEST, about the company's business environment and his aspirations for 2025.



Front-line Researchers

Yasushi Takatori, Senior Distinguished Researcher, NTT Access Network Service Systems Laboratories

▼Abstract

Yasushi Takatori, a senior distinguished researcher at NTT Access Network Service Systems Laboratories, is taking on the challenges of effectively using existing radio-wave resources and developing new radio-wave resources and optical-wireless cooperative technologies. We talked with him about his approach to development of radio-wave resources, the factors for bringing the results of application research into society, and his thoughts on taking all experiences as positive ones to achieve success.



Feature Articles

Network Architecture in the 6G/IOWN Era: Inclusive Core

Network Architecture in the 6G/IOWN Era: Inclusive Core

▼Abstract

In the era of the 6th-generation mobile communication system (6G) and Innovative Optical and Wireless Network (IOWN), it is assumed that four facets of *convergence and coordination*, namely, *cyber space and physical space*, *computing and network*, *analog and digital*, and *mobile communication and fixed communication*, will advance as communication services or the environment changes. This multifaceted convergence and coordination increases the need for end-to-end and seamless coordination of information processing and distribution across terminals, devices, networks, and applications. In this article, we introduce our research and development efforts in a network architecture for the 6G/IOWN era called the Inclusive Core, which is the foundation platform for achieving this multifaceted convergence and coordination.

