R&D Information

NTT Participates in Interoperability Test among Top-level Carriers in Japan, North America, Europe, and Korea

As part of its participation in Global MSF Interoperability (GMI2004)* hosted by the Multiservice Switching Forum (MSF), a global association promoting the Next Generation Network (NGN), NTT performed an interoperability test from October 4 to 16, 2004 targeting video and audio services over a network connecting sites in Japan (NTT Musashino R&D Center), North America (Qwest), Europe (BT in the U.K.), and Korea (KT). In this test, NTT evaluated its R&D results for RENA (resonant communication network architecture) by testing the operation and connectivity of IP telephony in a multi-vendor, global environment and the connectivity of video communications based on not only IPv6 (Internet protocol version 6) but IPv4 for secure and high-quality connections. The test demonstrated that RENA conforms to world standards and achieves global connectivity with overseas carriers and that it holds a leading position in implementing secure, safe, and reliable IP telephony and video communications.

NTT is a world leader in IPv6 networks and is currently commercializing them in Japan. For this test, it provided research experience with SIP (session initiation protocol) servers and bandwidth management technology based on IPv6. It demonstrated that connectivity conforming to the implementation agreements prescribed by MSF was achieved for the following specific tests:

- Global interoperability test for video communications (IPv6 and IPv4)
- QoS (quality-of-service) communications test using bandwidth management technology (IPv6)
- Secure communications test based on encryption technology (IPv6 and IPv4)
- Global interoperability test for IP-telephony communications (IPv6 andIPv4)

NTT plans to continue its R&D efforts in this area using the GMI2004 test results as a basis for further development. It aims to provide the world with research results of even greater reliability and to contribute toward the economical realization of an NGN that can provide a wide range of services in a flexible manner.

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* http://www.msforum.org/interoperability/GMI.shtml