NEC to Demonstrate Total Solution Composed of Next-generation Network with HSDPA, Advanced Packet Core, & IMS at 3GSM 20

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NEC Corporation today announced that it has realized a total solution for advanced mobile networks boasting interoperation of HSDPA, advanced packet core, and IMS, representing its first step toward the realization of a next-generation network with an converged fixed/mobile environment.

In Japan, 27 million (approximately 30%) of the total number of mobile phone users have already switched over to 3G. 3G currently provides a variety of advanced applications such as the delivery of music and other high-speed files, and video phones. As a result of enhanced applications, users increasingly require further upgrading of mobile phones in terms of speed and convenience. Amid this environment, NEC has succeeded in effectively integrating the three major functions necessary to respond to these customer requirements; acceleration of wireless-access speed, enhancement of packet processing speed and capacity, and improvement of a highly capable packet core platform to realize advanced packet services. NEC will demonstrate this network with its commercial-level systems at 3GSM 2005, Cannes, France and CeBIT 2005 held in Germany. NEC will show the near-future network of an "advanced packet service era with 3G", which has already commenced in Japan and will soon be realized in Europe and other regions providing mobile internet services.

HSDPA

HSDPA is a high-speed packet data transmission technology, and the key to improving the speed of wireless access by approximately 30 times that of current smooth video streaming-enabled 3G. NEC, with alliance partner Siemens Communications Group, has already completed the development of a HSDPA channel card and is ready to deliver the HSDPA Node-B to commercial networks. NEC's HSDPA Node-B is capable of 14.4Mbps throughput, and all the classes of HSDPA. Software for each class will be made available within 2005.

Advanced Packet Core Node

In the mobile internet, video and large volume of data traffic are rapidly increasing.

The best solution for the mobile operator is to be equipped with a new type of packet core system capable of high-performance IP packet transmission.

NEC is in a leading position to provide this product, and to accelerate delivery of its advanced TCA based packet core node, an open architecture product with carrier-grade Linux. Over 100 of NEC's advance packet core node systems are operating commercially in mobile carriers' networks.

IMS (IP Multimedia Subsystems)

IMS is indispensable to the realization of advanced packet services under 3G. NEC is the leading provider of SIP technology in both public and private VoIP networks in Japan. NEC has realized an IMS platform and its applications based on its proven ability in highly-capable and reliable SIP technology in commercial mission-critical networks. NEC's IMS service line-up shows the potential of SIP services to increase the ARPU (Average Revenue Per User) of mobile operators with services such as: Presence, PoC, Web sharing and group chat. The 3GPP-compliant NEC IMS, the key technology for mobile multimedia services, is already available for commercial deployments.

NEC's demonstration at 3GSM and CeBIT will exhibit 3G terminals with our embedded IMS client software.

"NEC is ready to provide a total solution composed of a 3G advanced packet core, a HSDPA radio network, IMS, and other related applications to commercial services." said Katsuhiro Nakagawa, Associate Senior Vice President of NEC Corporation.