

# Samsung is Set to Demonstrate 4th Generation Mobile Technology

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Samsung Electronics announced its plan to demonstrate 4th Generation (4G) mobile technology at the annual Samsung 4G Forum in Jeju Island, Korea for the first time in the world. Demonstration will take place at the specially designed bus in mobile circumstances reaching 100 Mbps data transmission as well as at the display area inside forum venue to show speeds of 1Gbps of data transmission.

The bus demonstration will give participants a first-hand experience of this latest technology. A demonstration bus will be moving at speeds of 60 km/h to show multi-cell Handover with data speed of 100Mbps. A live broadcast of the Forum, VOD, and internet access will be shown simultaneously in a demonstration bus allowing delegates to experience

the stability and speed of 4G connectivity of 100Mbps data speed.

Handover is the process of transferring an ongoing call or data session from one channel connected to the core network to another.

1 Gbps data speed under nomadic circumstances is 50 times faster than current Mobile WiMAX technology. It takes about 2.4 seconds to transfer 100 MP3 files(300MByte), 5.6 seconds to transfer 1 Movie(800MByte) at speeds of 1Gpbs. Samsung will demonstrate 1Gpbs data speed at nomadic circumstances by showing 32HD channel broadcast (20 Mpbs) download, Internet access and video telephony all at the same time. Furthermore, a 3.5 Gbps data transfer demonstration will be shown using 8X8 MIMO(Multi-Input Multi-Output) technology.

Samsung's 4G technology demonstration is a next generation wireless communication service, a step up from last year's Mobile WiMAX demonstration. Samsung has recently announced its plans to provide Mobile WiMAX systems and handsets to Sprint Nextel and lead the industry in next generation telecommunications technology.

Additionally, Samsung has plans to commercialize Mobile WiMAX with nine major operators in seven different countries such as US, Italy, Brazil.

Ki Tae Lee, president of Samsung's Telecommunications Network Business, says, "We are proud to demonstrate 4G technology for the first time at Samsung 4G Forum. We hope to drive development and standardization of 4G mobile technology with the successful demonstration and realize our dream to begin the 4G era." He adds, "We hope to work with associated parties for the successful commercialization of 4G technology."

ITU defines 4G technology as a future wireless telecommunications technology allowing data transfer rates of 1Gbps at nomadic

circumstances and 100Mbps at mobile circumstances. The spectrums for 4G technology will be decided at WRC (World Radiocommunication Conference) in October of 2007. The 4G mobile communications format is expected to become commercially available around 2010.

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