

## Nokia Firsts in Telecommunications

Did you know that the world's first international cellular mobile telephone network NMT was opened in Scandinavia in 1981 with Nokia introducing the first car phones for the network? Or, that the world's first NMT handportable, the Nokia Cityman, was launched in 1987?

### Year 2007

Nokia became the first phone maker to add energy saving alerts to mobiles.

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### Year 2006

Nokia and M1 completed the first HSUPA data call with Nokia Flexi WCDMA Base Station.

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Nokia and Elisa completed the world's first commercial WCDMA900 data call.

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Digita and Nokia signed world's first commercial DVB-H mobile TV platform supply contract.

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### Year 2005

Nokia announced world's first commercial solution for managing DVB-H broadcast services.

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The Nokia 6630 imaging smartphone has as the first device in the world achieved global GCF 3G WCDMA Certification. The certification was achieved based on the requirements defined by Global Certification Forum (GCF), an independent industry body which provides network compliancy requirements and testing for GSM/WCDMA mobile devices.

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SBS Finland's Kiss FM became the first radio station in the world to begin Visual Radio broadcasts. This unique new concept developed by Nokia offers the listeners the possibility to give feedback and to participate in programs easier than ever before.

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Nokia introduced a new product for secure mobile contactless payments and ticketing. The world's first Near Field Communications (NFC) product for payment and ticketing will be an enhanced version of the already announced Nokia NFC shell for Nokia 3220 phone.

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### Year 2004

Using Nokia's CDMA Dual-Stack handset, Nokia demonstrated the industry's first Mobile IPv6 call at the 3G World Congress Convention and Exhibition in November. The demonstration highlighted real-time streaming video with seamless handoff between two CDMA access networks using Mobile IPv6.

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Nokia announced the Nokia NFC (Near Field Communication) shell, the latest step in the development of innovative products for mobile communications, in November. With the Nokia NFC shell on their phone, consumers will be able to easily access a variety of services and conveniently exchange information with a simple touch gesture utilizing NFC technology.

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In October, Nokia and TeliaSonera Finland successfully conducted the world's first EDGE-WCDMA 3G packet data handover in a commercial network.

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Achieving a first for the Asia-Pacific region, Nokia, MediaCorp Technologies, M1 and the Media Development Authority of Singapore jointly showcased a live end-to-end mobile phone TV broadcast over a DVB-H (Digital Video Broadcast - Handheld) network at the Nokia Connection event in Singapore.

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Nokia and Texas Instruments Incorporated introduced the first pre-integrated and validated S60 Reference Implementation based on TI's OMAP(TM) processor-powered reference design in February. The Reference Implementation is available immediately to S60 licensees.

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## Year 2003

Nokia and Jay-Z teamed up to create a music and wireless industry first with the Black Phone.

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Nokia unveiled the world's first GSM push-to-talk handset, the sports-inspired Nokia 5140 phone.

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Nokia demonstrated world's first dual stack IPv4/IPv6 CDMA handset.

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Nokia announced that the world's first cdma2000® 1xEV-DV high-speed packet data phone call was completed at Nokia's CDMA product creation center in San Diego. The call, achieving a peak data rate of 3.09 Mbps, was made between a test set based on a commercially available Nokia 2285 handset upgraded with a Nokia 1xEV-DV chipset and a Racal Instruments, Wireless Solutions Group, 1xEV-DV basestation emulator. This chipset is the world's first to support complete 1xEV-DV Release C functionality.

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Nokia launched First SSL-based Remote Access Solution to Enable Enterprises to Customize and Secure Remote Connectivity.

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Nokia introduced first GSM module for machine-to-machine applications.

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## Year 2002

Nokia announced the Nokia 6200 tri-band (GSM/GPRS/EDGE 850/1800/1900MHz) phone, the world's first 3GPP compliant EDGE (Enhanced Data-Rates for GSM Evolution) handset, offering users advanced voice features and robust mobile data services via high speed Internet connectivity.

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Nokia introduced the world's first handset for WCDMA and GSM networks.

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As operators move toward the next generation of wireless, Nokia unveiled its first handsets designed to support advanced services across both GSM/GPRS 850MHz and 1900MHz networks.

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Nokia and Omnitel Vodafone made the first rich call in an end-to-end All-IP mobile network.

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First ever international MMS roaming and interconnection via Sonera GRX and Nokia MMSCs.

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Nokia successfully made the first 3G WCDMA packet data calls between its commercial network infrastructure and terminals in its laboratories in Finland. The Nokia 3G WCDMA network and terminal used were based on the commercial standard level known as 3GPP (3rd Generation Partnership Project) Release 99 June 2001 version. This was the first time that packet data has been transmitted end-to-end on a commercial system based on the above mentioned commercial standard.

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Nokia unveiled world's first TDMA handsets with full-color displays.

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## Year 2001

Nokia and the Finnish operator Sonera conducted the world's first Wireless LAN roaming based on GSM technology. Sonera is making use of Nokia technology that allows mobile operators to offer broadband wireless Internet services in Wireless LAN access zones.

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Nokia, Nordea and Visa International to pilot the world's first Electronic Mobile Payment Services based on dual chip technology.

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Wireless Village Initiative Demonstrated World's First interoperable Mobile Instant Messaging and Presence Services.

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Nokia made the world's first 3G WCDMA voice call on commercial 3GPP system.

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Nokia completed world's first GSM 850 call in a live network.

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Nokia Unveiled the Industry's First Multi-Gigabit Platform Delivering Breakthrough Check Point FireWall-1 Throughput.

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Nokia demonstrated world's first easy and secure wireless LAN authentication.

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Nokia demonstrated first XHTML microbrowser on standard mobile phone.

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Nokia launched world's first 3GPP compliant E-OTD positioning system.

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Nokia introduced the industry first multimedia messaging solution, the Nokia Artuse (TM) MMS (Multimedia Messaging Service) Center, a high-capacity platform for the next wave of mobile messaging. The solution enables operators to introduce multimedia messaging services combining new rich content, such as audio and video clips, photographs and images with the traditional text messaging.

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Nokia launched world's first demonstration of Mobile IPv6-based multimedia network.

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## Year 2000

Nokia introduced the world's first IPv6-enabled end-to-end GPRS network. Operators can use Nokia GPRS networks to provide their customers with new types of services that bring benefits offered by IPv6, such as global reachability and end-to-end security.

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Nokia introduced the world's first TETRA WAP browser which brings powerful WAP applications to TETRA professional mobile radio networks. WAP over TETRA provides a new method of data communication for professionals. It enables real-time direct access to various customer and technical databases in only a few seconds.

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Nokia unveiled 3G SGSN - an industry first enhancing GPRS networks for 3G.

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Nokia has combined the versatility of WAP with the power of TETRA to introduce the world's first WAP services for digital professional mobile radio users. The new WAP services have been developed in co-operation with Finnish companies Helsinki Energy and Tekla Corporation.

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Nokia and Sonera have completed tests that bring roaming capabilities for IP traffic between GPRS networks for the first time in the world.

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The world's first fully standards compliant commercial GPRS network opened in China.

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Nokia and Scandinavian Airlines Systems announced a partnership to bring Nokia mobile phones to the selection of goods sold on all international SAS flights. This is the first time mobile phones will be sold on airplanes.

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Nokia launched the Nokia LiveSite platform, the world's first WCDMA implementation which is compatible with the latest 3GPP standards for third generation networks.

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Nokia successfully carried out the world's first WAP service over a trial WCDMA system. The tests were completed in Beijing, China, where Chinese language WAP services were transmitted via the WCDMA system and radio network.

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Nokia, a founding member of the SyncML initiative, announced that it had successfully demonstrated the world's first wireless Internet synchronization using the SyncML protocol.

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Nokia announced world's first GPRS roaming between M1 Singapore and Cable and Wireless HKT Mobile Services, Hong Kong. This is the first announcement of its kind in the world for GPRS inter-operator roaming.

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Nokia was the first vendor in the world to bring full mobile IP packet data functionalities into TETRA networks. Nokia TETRA IP significantly enhances access to WAP services and more efficient WAP service development is possible with new TETRA IP functionalities.

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## Year 1999

Nokia first to market with corporate WAP server.

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The first official mobile call on the GSM 400 frequency.

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Nokia introduced the world's first high-speed data terminal for wireless networks: the Nokia Card Phone 2.0 brings about a four-fold increase in data transmission speed.

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Nokia announced the world's first media phone that is based on the Wireless Application Protocol (WAP) in Mobile Media Mode. The Nokia 7110 dual band GSM 900/1800 media phone has been designed to enable easy access to Internet content from a mobile phone.

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Nokia completed the world's first WCDMA (Wideband Code Division Multiple Access) phone call through a public switched telephone network.

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## Year 1998

Nokia delivered world's first ETSI standard ADSL and IP network to Telecom New Zealand, thereby marking the start of commercial delivery of broadband data services using the ADSL network.

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The world's smallest NMT 450 phone, the Nokia 650, sets a new benchmark for NMT 450 technology. As a special additional feature and first in the market, the Nokia 650 has a built-in FM radio.

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The Nokia 5100 series, the first mobile phones with user-changeable covers.

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The world's first live High-Speed Circuit Switched Data (HSCSD) network.

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The Nokia LPS-1 loopset, an easy to use device for smooth interaction between a hearing aid and a digital mobile phone. It was the first product of its kind in the world.

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A revolutionary new solution, the Nokia GSM Intranet Office, giving employees total mobility in the workplace via the company intranet. The world's first GSM Intranet Office combining GSM with office IP telephony.

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The Nokia 9110 Communicator, the first hand-held mobile device supporting wireless imaging.

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Nokia Debuts Guggenheim Exclusive "Art Edition" Phone as First in Design Series.

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The Nokia Intelligent Frequency Hopping (IFH) solution, part of the Nokia Soft Capacity concept, the first solution of its kind in today's GSM markets.

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## **Year 1997**

The world's first four TETRA networks were delivered by Nokia.

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A new handset for the NMT 450 standard, the Nokia 540, which is the world's first NMT phone with Navi Key.

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The world's first digital satellite receiver with Common Interface, the DVB 9600 S.

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The next generation GSM product family, the Nokia 6100 series. New standards for operating times and a set of innovative industry-first features, including audio quality and an entirely new Profile function which enables users to adjust the phone settings according to various situations.

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Next generation half-rate handportable for the digital PDC standard in Japan. With this introduction, Nokia is the first company to demonstrate an entirely new, innovative feature for PDC handsets, which enables calling by voice activation.

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The world's first GSM dual band base station, the Nokia GSM 900/1800 Dual Band BTS. This provides the possibility to integrate GSM 1800 transceivers (TRXs) into an existing GSM 900 Base station (BTS).

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The first call on the Helsinki City Energy Company's digital TETRA network was made. The network, called officially HelenNet by Helsinki City Energy Company, is the world's first network taken into operative use, according to the TETRA standard.'

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First-ever interactive telematic wireless health care tool for supporting the treatment of chronic diseases, e.g., diabetes.

By introducing a new WLL solution, Easyway Access, Nokia became the first supplier on the market to link GSM radio access to a wireline local exchange.

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The first manufacturer to provide a complete Smart Messaging solution, a new direct Internet access service technology specially designed for mobile phone users, to network operators and service providers.

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The Nokia 3810, the first mobile phone specially designed for Asian consumers.

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Nokia launched its Mediamaster DVB 9200S Free-To-Air, and was the first manufacturer to launch a digital satellite receiver in the UK.

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A new GSM handportable, the Nokia 3110, with the Navi-Key menu system that allows fast, one-button access to the functions of the phone.

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A new mobile phone offering a new innovative power management solution, the Nokia 1611 with a unique option, the solar cell battery.

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## **Year 1996**

The Nokia 8100 product family, the first with an innovative, ergonomically comfortable design. Chinese character short messaging service and Chinese user interface were launched in the Nokia 8110 mobile phone. Nokia was the first manufacturer to offer both simplified and traditional character sets in the same phone.

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The first digital multimedia terminal in the world, the Nokia Mediamaster.

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The Nokia 2160, the first available dual mode AMPS/TDMA phone.

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The Nokia 9000 Communicator, the world's first all-in-one mobile communications tool introduced at the CeBIT exhibition.

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## **Year 1995**

The world's first integrated wireless payphone.

Nokia PrimeSite, the world's smallest base station for GSM/DCS cellular mobile networks.

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The new joint venture, Beijing Nokia Mobile Telecommunications Ltd., was established: the first factory to manufacture large scale GSM systems and equipment in China.

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### **Year 1994**

The first official GSM call in the People's Republic of China made on a Nokia phone on Beijing TA4s network, supplied by Nokia. The first European manufacturer to start selling mobile phones in Japan.

The world's first Data Communications Server (DaCS), providing fully digital, fast access to corporate LANs.

The world's first digital cellular data products, including the Nokia PC Card and the Nokia Cellular Data Card.

Inmarsat made the world's first satellite telephone call with Nokia's pocket-size GSM handset.

The first manufacturer to launch series of handportable phones for all digital standards (GSM, TDMA, PCN, Japan Digital). The Nokia 2100 was the world's smallest and lightest family of digital products.

### **Year 1993**

The first Personal Communications Network based on GSM 1800 standard delivered by Nokia.

The world's first SMSC (Short Message Service Centre) taken into commercial use in European's Nokia network.

The world's first credit card size cellular modem card developed with AT&T Paradyne.

### **Year 1992**

The Nokia 1011, the first digital handportable phone for GSM networks.

The Nokia 100 series, the first family of handportable phones for all analog networks.

### **Year 1991**

The first manufacturer to have a large-scale production-ready GSM phone.

The world's first genuine GSM call made using Radiolinja's network, supplied by Nokia.

### **Year 1990**

The world's first Radio Data System (RDS) and Mobile Search (MBS) text pagers.

### **Year 1989**

The world's first Actionet trunking mobile radio network was brought into operation.

The world's first fast-poll 14,400 bps (bits-per-second) modem.

**Year 1988**

The world's first ISDN (Integrated Services Digital Network) exchange conforming to CCITT standards, manufactured by Nokia, was brought into use in Finland.

**Year 1987**

The world's first NMT handportable, the Nokia Cityman.

**Year 1984**

The world's first portable NMT car telephone, the Nokia Talkman.

**Year 1982**

Europe's first digital telephone exchange, the DX 200.

**Year 1981**

The world's first international cellular mobile telephone network NMT opened in Scandinavia with Nokia introducing the first car phones for the network.

**Year 1969**

Nokia introduced the world's first 30-channel PCM (Pulse Code Modulation) transmission equipment conforming to the standards of CCITT (Consultative Committee on International Telegraphy and Telephony).