

Isn't it time for your network to evolve?

Nokia Siemens
Networks



More traffic. Less complex. Connected.



Reinventing. The world. Connected.

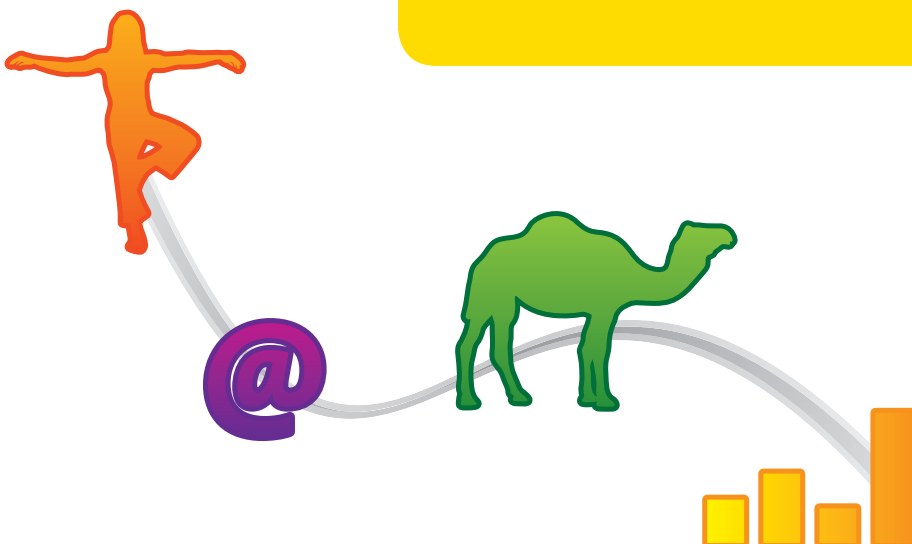
Long Term Evolution starts here. Long Term Evolution (LTE) is the next generation system for mobile networks such as GSM, WCDMA/HSPA and CDMA.

It improves the delivery of new multimedia and rich call applications by increasing data transfer speeds, reducing latency and building on a scalable flat network design.

LTE is being standardized in parallel with System Architecture Evolution (SAE) and represents the natural evolution of existing WCDMA/HSPA networks towards high-speed mobile broadband applications.

LTE combines an OFDM-based air interface with a flat, all-IP based network architecture to support broadband multimedia services with peak data rates of up to 173 Mbps.

Thanks to its high data rates and low latency, LTE is designed to support all broadband multimedia services including voice and rich calls, Internet access, multimedia, video streaming, video conferencing and mobile TV.



Together with Nokia Siemens Networks, Panasonic Mobile Communications has been selected by NTT DoCoMo to be their Super 3G / Long Term Evolution vendor.

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As a natural evolution of GSM and WCDMA/HSPA technology, LTE can rely on the vast 3GPP ecosystem. Many operators see LTE/SAE as the successor to their existing GSM/EDGE, WCDMA/HSPA and CDMA networks.

LTE combines the best of radio technology and supports a flat, all-IP based network architecture.

The new OFDM-based LTE air interface provides:

- High data rates and spectral efficiency
- Low latency (round trip delays of 10–20 ms)
- Cost-efficient handling of increased data traffic
- Scalable bandwidth from 1.4 up to 20 MHz and flexible spectrum allocation. LTE can also be deployed in low-bandwidth frequency bands, thus enabling re-farming of GSM frequencies

LTE also supports MIMO (Multiple Input / Multiple Output) antenna systems, which increase peak data rates and cell edge performance.

Due to the backing of the 3GPP ecosystem, network providers can expect to see a wide range of devices at attractive prices. Service continuity is also assured due to the interworking of legacy 2G/3G systems, an integral component of LTE/SAE.

CAPEX and OPEX per megabit will be reduced substantially, and with expanded services, operators can expect to see data traffic increases even as OPEX drops.

Network evolution drives traffic growth. One European operator has experienced 350% growth in HSPA data volume in just 6 months.

LTE/SAE has been selected as the first technology choice by NGMN Ltd, a consortium of leading mobile operators defining the requirements for the next generation of mobile networks, as it broadly meets its recommendations.



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Every effort is made to ensure that our
communications materials have as little
impact on the environment as possible