

Nokia Mobile core network evolution



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Core Network trends and implications

Trend

1. Introduction of IP technologies into core network



Implications

- Migrate signalling over IP
- Introduce voice over IP
- IP connection establishment between terminals

2. Introducing layered network architectures



- Separate control and user plane for independent scalability
- Introduce intelligent edge components: service core and service enablers

3. Services delivered over packet bearer -> real-time voice

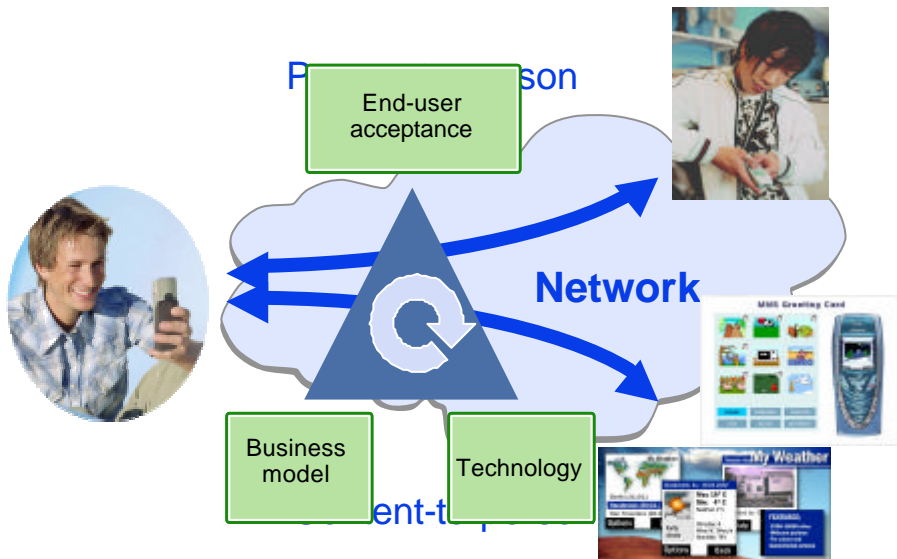


- Introduce more intelligency for packet core domain
- Combining voice, video, messaging and browsing during the same session: Session Initiation Protocol

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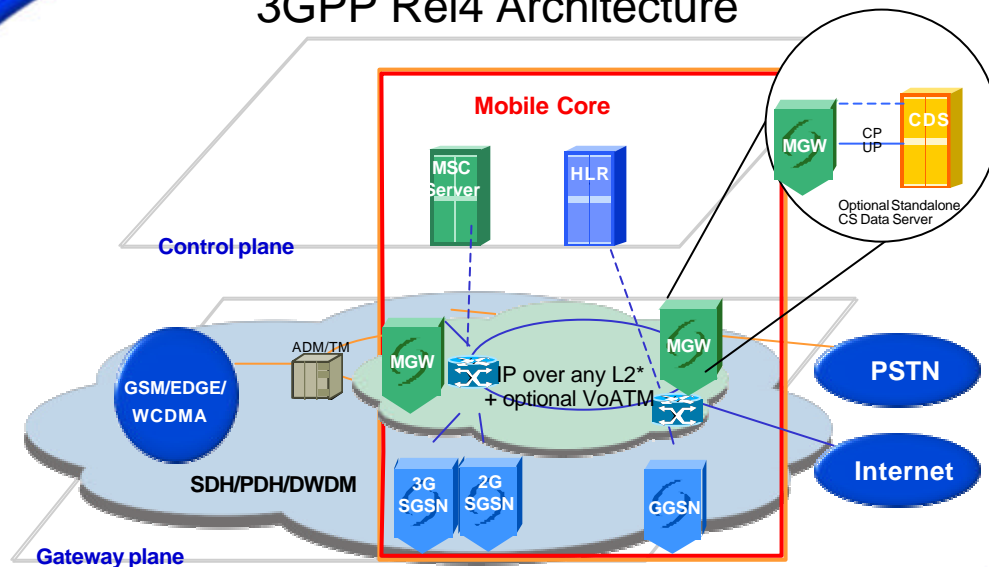
Drivers for Network Evolution



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3GPP Rel4 Architecture



* Ethernet, Gigabit Ethernet, IPoverSDH, IPoverATM, MPLS

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Open topics for discussion

- Definition of VoIP: usage and interconnection;
- VoIP regulatory drivers (SMP/SMC/SME/STFC);
- New protocols and local services regulation.

Thank you.