

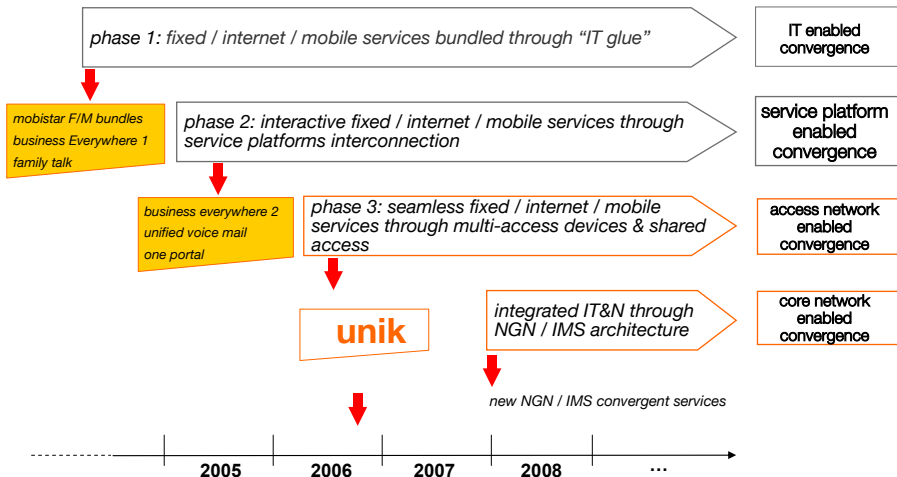
On track to deliver 21st century services

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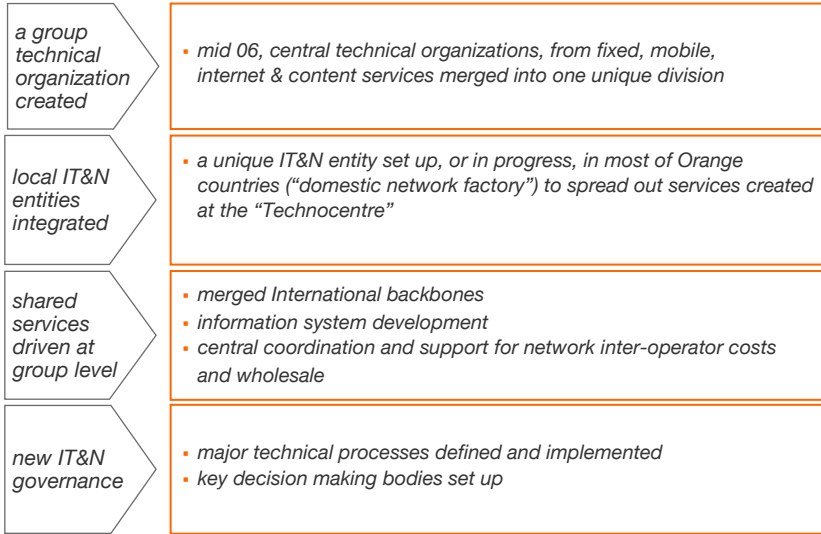


on track towards “one IT&N” supporting the integrated operator



phased and pragmatic approach towards full convergence

transformation of processes & organisation

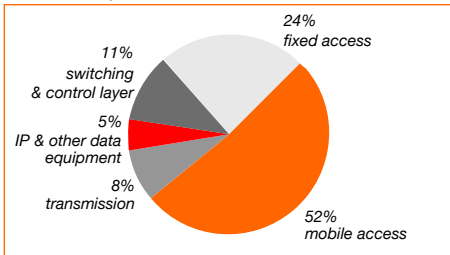


new organisation on track to deliver the full range of convergent services

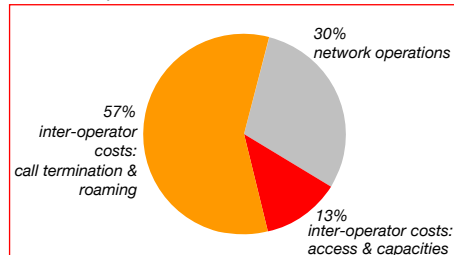
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IT&N 2005 spend (*)

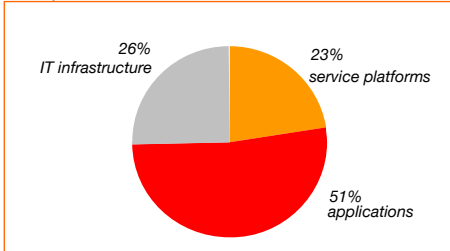
network Capex ≈ 4.0 Bn euros



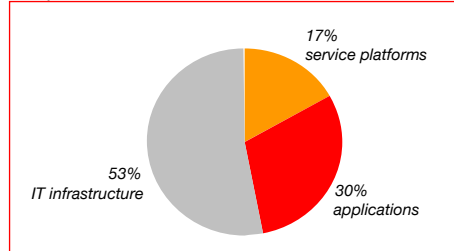
network Opex ≈ 11.4 Bn euros



IT Capex ≈ 1.6 Bn euros



IT Opex ≈ 1.4 Bn euros



(*) excluding PagesJaunes, including Orange Spain full year

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total IT&N 2005 spend ≈ 18.4 Bn euros

IT&N Capex & Opex guidance

june 2005

- IT&N Capex to sales to remain between 10 - 11% over 06 - 08
- Opex savings: up to 2 pp of GOM in 08 vs 05 with flat Opex (12.8 Bn euros in 08) due to expected revenue growth



december 2006

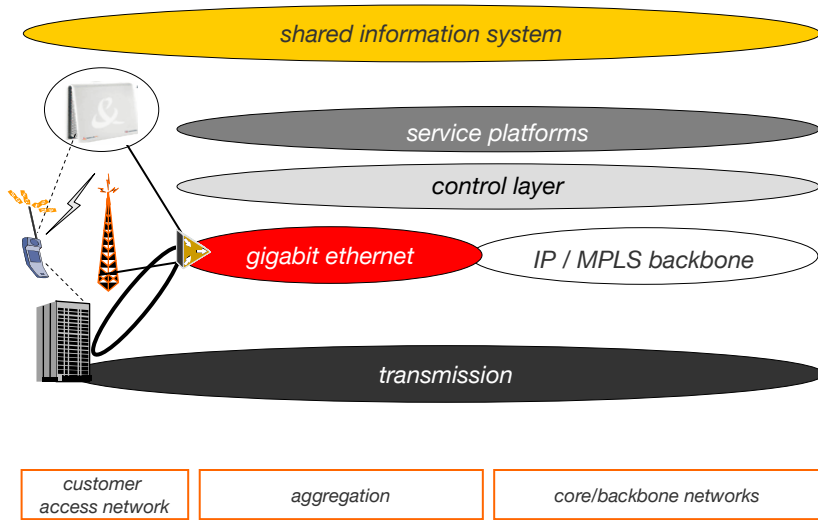
- IT&N Capex of 10 –11% of sales is confirmed
- IT&N Opex savings of 2 pp of GOM is confirmed, plan to reach in 08 500 - 800 Mn euros gain, given a lower revenue trend

a more challenging guidance for IT&N Capex & Opex

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the network

our vision: one IT&N



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one IT&N is our strategy to deliver the NExT objectives

next generation network: fixed VoIP development

► achievement

VoIP started as second line offer (France, UK, Poland, Netherlands)
first line currently offered in France and in the Netherlands
customer base in Europe end of Q3 2006 > 2 million
wideband (VoIP enhanced)

- started in France

► outlook

wideband

- rolled out in most Europe Orange countries in 2007
- migration to SIP(*) in 2H 2007 will
- prepare SIP convergence offers
 - take advantage of the SIP industry support for network, gateways and handsets

first line offered

- by January 2007 in Spain
- in the UK and in Belgium in 2007

(*): Session Initiation Protocol

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next generation network in the mobile: new MSC architecture roll-out

▶ target

new standardized MSC architecture (softswitch): splitting the traditional MSC into 2 components:

- *the MSC-Server(*) for the control layer*
- *the Media gateway (MGW) for the connectivity / transport layer*

▶ achievement

main benefits :

- *switching and transmission savings: ≈ 40% savings on TCO(**)*
- *scalability, network resilience improvement*
- *future proof solution : IP introduction on shared IP backbone, ready for IP interconnection and IMS(***) introduction*

3 suppliers selected in 1H 2006

▶ outlook

- *deployment by swapping the traditional MSC when relevant (country per country decision)*

(*): Mobile Switching Center Server

(**): Total Cost of Ownership

(***): Internet Protocol Multimedia Subsystem

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NGN / IMS solution selected to provide fully integrated services

▶ target

integrated IT&N through NGN / IMS architecture

▶ achievement

- *pre-IMS solution used for VoIP SIP services (in fixed networks)*
- *selection of IMS providers is ongoing*

▶ outlook

- *IMS providers selected in 1H 2007*
- *testing for introduction by the end of 2007*
- *gradual phase out of PSTN switches to begin from 2008, starting with MT25 2G switches*

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network Capex and Opex optimization: radio site sharing

► achievement

agreement with Vodafone for sharing network infrastructure in Spain within areas below 25,000 inhabitants

3G
UTRAN(*)
sharing

► outlook

- 5,000 radio sites common roll-out in 4 years
- operational by 2H 2007, first time in Europe

2G
site
sharing

- optimization by decommissioning and re-installation of equipment in the operator's site responsible for the area

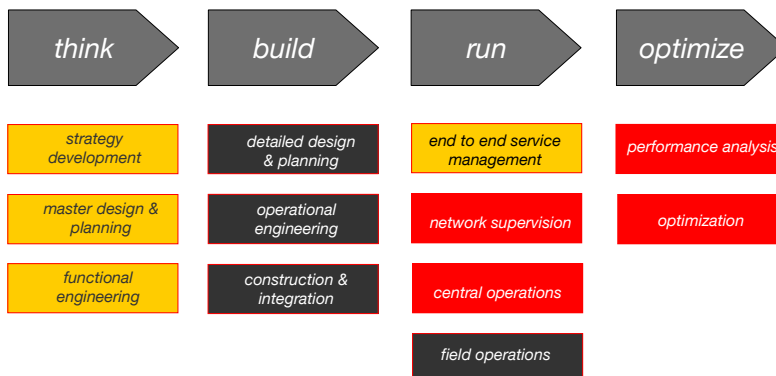
- important Capex and Opex savings at stake over the 5 coming years (200 Mn euros expected)
- further operations under analysis

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(*): UMTS Terrestrial Radio Access Network

opex Capex

all outsourcing not appropriate: partner for economic efficiency, control for competitive advantage



- be pragmatic
- keep & strengthen
- transfer if not critical size

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network operations optimization: example of Switzerland

▶ achievement

- first line maintenance (on-site) and site infrastructure management
 - non significantly differentiating activity
 - no economy of scale achievable within the group
 - situation up to 3Q 2006: 2 subcontractors

 - new situation: one single partner from 3Q 2006
- =>forecasted Opex savings ≈ 40% in 06-08

transfer

▶ outlook

- ongoing projects through Orange footprint to implement new make or buy policy
(in Belgium, in the Netherlands, additional steps in Switzerland)

be pragmatic

operations optimization: an example of cross-border synergies

▶ target

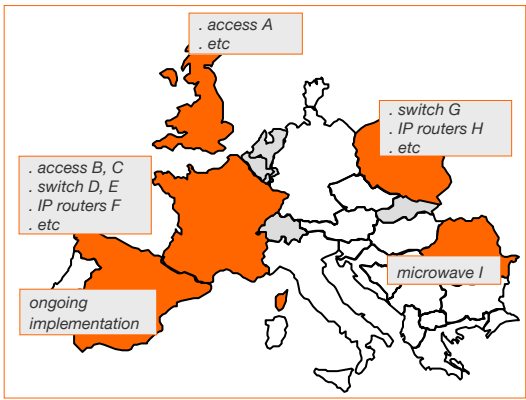
- activities performed by France for UK regarding a new 3G technology in the UK:
- 24x7 3G network element monitoring
 - first time fix, trouble ticketing
 - level 2 & 3 support / expertise
 - interface with vendor

▶ achievement

- key benefits:
- expertise concentration
 - improved operational efficiency & QoS
 - Opex reduction ≈ 25%
 - leveraged management of vendor

keep & strengthen

operations optimization: corporate Skill Centers implementation



target

Orange aims at implementing one single corporate skill center (SkC) for each technology in charge of:

- technology policy
- specification
- tests and implementation

achievement

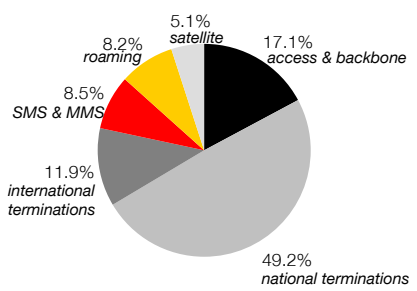
- 20 SkCs already launched
- 16 under implementation

outlook

- ≈ 100 Skill Centers targeted by 2008 for network and service platforms
- corporate skill centers will reduce IT&N Opex and optimize technical skills management

network inter-operator spend optimization

inter-operator costs breakdown



call termination costs are the major cost segment

target

objective is to achieve savings representing 1pp on Opex to sales ratio by 2008.

achievement

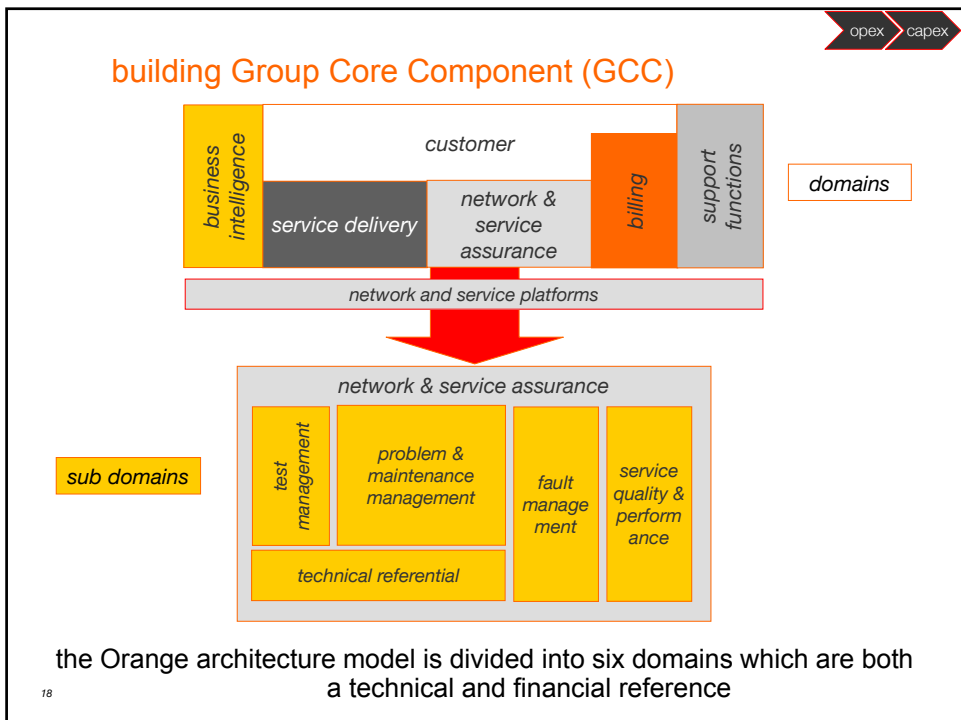
insourcing

- access and backbone synergies
- internal traffic routing
- joint procurement approach & sourcing strategy
- cost assurance
- mastering of unlimited offers

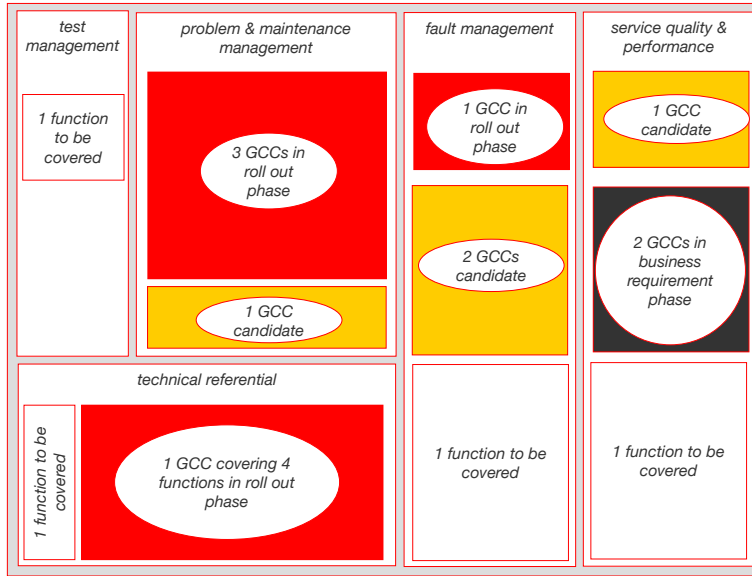
outlook

- mastering call termination & roaming
- improved control over abundance offers
- termination costs decreasing
- wholesale control at group level

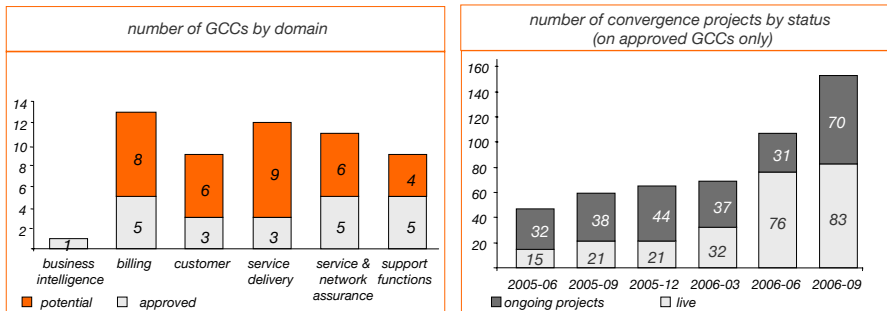
IT



most of network & service assurance domain is covered by GCCs



agreement and implementation of GCCs is progressing steadily



- 22 GCCs have been approved and 33 are under study or validation
- 83 fully rolled out implementations, and 70 are ongoing
- a GCC is implemented 6 times on average.
- maintenance is mutualized in the skill center.

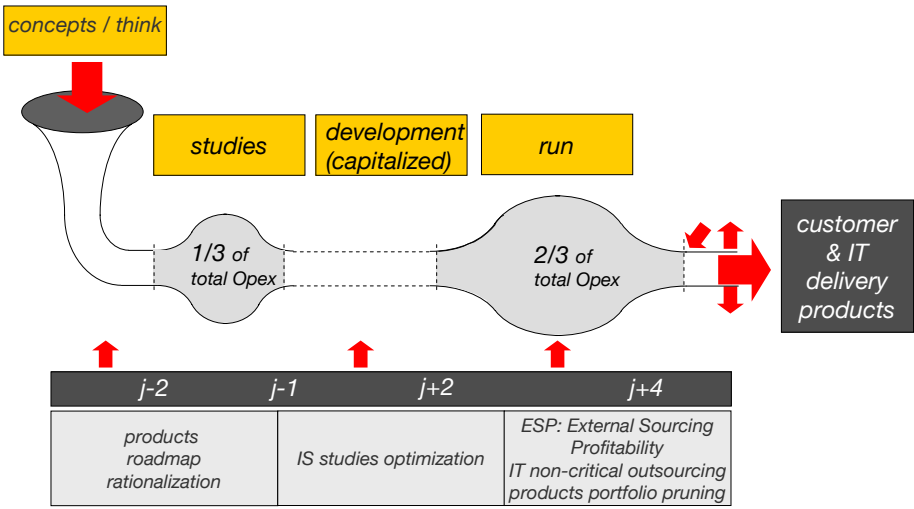
IT active suppliers portfolio management enables rationalization & cost management

<i>example of France</i>	2003	out	in	2005
suppliers	63	- 29	+ 16	50

overall IT services prices have been contained, with a slight decrease compared to 2004 baseline, involving a price evolution in the 3 countries (France, UK, Poland) of about 5% on unit costs

- referenced new offshore IT suppliers within the core list of suppliers

the IT Opex PIPE & our domains for actions



from a heterogeneous billing system situation to a streamlined current situation

mobile business	billing system version
Belgium	BSCS V5.1
Botswana	BSCS V6
Caribbean	BSCS V5.0 US => V8
Dominican	BSCS V5.0 US => V8
Egypt	BSCS V6
Ivory Coast	BSCS V5.21 => V8
Jordan	BSCS V5.21
Madagascar	BSCS V6
Netherlands	BSCS V5.1
Spain	BSCS V6

target

objective of our new billing solution project (BSCS):

- cost optimization through consolidation of supplier base
- better sharing and re-use of developments
- ensure viability of BSCS maintenance until implementation of new system

achievement

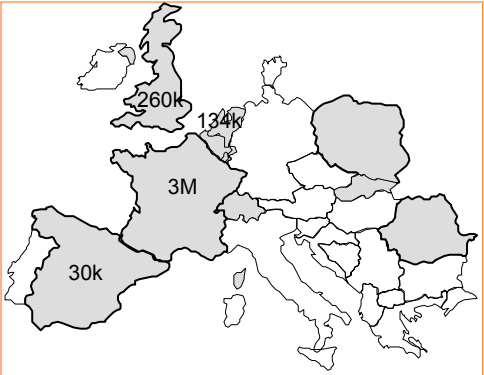
the total annual spend for previous billing system was 15.8 Mn euros with a heterogeneous situation:

- 5 suppliers and 10 countries.

outlook

12 Mn euros savings (25%) over 3 years

industrialize home gateway remote management (livebox)



target

scope and context

- firmware livebox update for 4 countries + franchise entities
- wifiphone and liveradio updates
- 3 launches per country in 2006
- equipments audit value added of Karma
- precise equipment management
- target off-peak period
- target per subscribed services

achievement

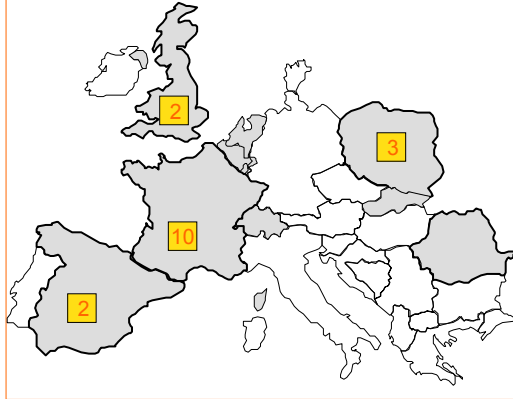
- deployment gains of around 4Mn euros per year in direct costs + time to market opportunities
- a clear improvement of the brand and the QoS (i.e. indirect gains)

outlook

- in 2007, introduction in Poland, Belgium, Slovakia, Switzerland, diminution of generalisation delays, immediate update on customer care request

IT infrastructure optimization: data centers reduction, desktop standardisation

2008 targets for data centers



▶ target

reduce number of Data Centers (DC) from > 80 beginning 2004 to ≤ 17 end 2008 (excluding hosting customers data centers), with 4 country hubs

▶ achievement

- by the end of 2006, 17 DC in France, 5 in UK, 9 in Poland and 2 in Spain

▶ outlook

- unique desktop standardization in all Europe
- fully unified messaging system
- group internal network rationalization
- DC infrastructure consolidation (servers consolidation and virtualization, ...)

data centers consolidation on track, and other IT infrastructure consolidation already launched

Conclusion

- technology roadmap on track to deliver converged products and services
 - cost optimization improvement programs in place and delivering savings in view of increased challenge
 - inter-operator costs on track to deliver 1pp improvement
- => on track to deliver ambitious IT&N guidance on Capex & Opex, and put in place network, IT and service platforms enabling 21st century services

glossary

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BSCS	Business Support and Control System
FTE	Full Time Equivalent
IMS	Internet Protocol Multimedia Subsystem
IP	Internet Protocol
IS	Information System
IT	Information Technology
MGW	Media Gateway
MPLS	Multi-Protocol Label Switching
MSC	Mobile Switching Center
MSC-S	Mobile Switching Center Server
MT25	2nd Generation Fixed Network Switching Center
NGN	Next Generation Network
PSTN	Public Switched Telephone Network
QoS	Quality of Service
SIP	Session Initiation Protocol
TCO	Total Cost of Ownership
UTRAN	UMTS Terrestrial Radio Access Network
VoIP	Voice over Internet Protocol
Wifi	Wireless Fidelity

(*): UMTS Terrestrial Radio Access Network