



3rd Annual i3Forum Conference

The Future is All IP

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Chicago

Service Workgroup Overview

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Service WG: key past deliverables

Several flavours of IPX

- Understanding the several flavours of IPX, May 2011
 - GSMA-IPX specifications to enable end-to-end QoS, SLAs, cascading, security and convergence
 - several solutions marketed as IPX answer different requirements and address a portion of the current market needs
 - only few fully address and are compliant with the GSMA-IPX specifications, until now mostly focused on on-net voice
 - need of IPX interconnections including end-to-end QoS, SLAs



Service WG: key past deliverables

Routing and Addressing

- Routing and Addressing services for International Interconnection over IP, May 2010
 - need for a standard Routing and Addressing approach that answers all the technical, business and regulatory requirements
- Global SPID Specifications Release, May 2011
 - i3 Forum recommends Global SPID
 - i3 Forum's ambition to provide information and support about what is considered by the carriers' community as important requirements for a Global SPID



Service WG: recent activities

Video communications over IP, May 2012

Use-cases

- one-to-one
- one-to-many
- any-to-any (esp. business video conferencing, HDVC)

Different backgrounds and different business models

- MNO: minute-based
- Business SP: flat/per MB/minute, sell/customize/integrate eq.
- Hardware/software suppliers: sell equipment/software (+service)
- OTT: advertisement; collect and sell information

Positioning in the video-communications value-chain

- Transport
- Service aware interconnection and interoperability
- Presence and policy management



Service WG: recent activities

Multi-service IP interconnection, May 2012

- Network access types for multi-service IP interconnection

- Dedicated private link
- Virtual private dedicated link
- Virtual private ,over the Internet‘ link (IP-MPLS, IPsec)
- Public Internet
- Multi-service exchange

- Each access type has its pros/cons. To comply with GSMA-IPX requirements (end-to-end QoS, SLAs, cascading, security), IPX Provider has to rely on

- Dedicated private link
- Virtual private dedicated link



Service WG: recent activities IPX-Interconnection (NNI)

- How GSMA requirements can be fulfilled by i3forum's ready-to-use solutions?
- Definitions and scope of IPX services
 - On-net, off-net, multi-hop off-net, break-out
 - Service-unaware IPX-Transport service (optional)
 - IPX-Voice service
- Commercial settlement models for IPX Transport and IPX Voice service



Service WG: recent activities

Impact of LTE

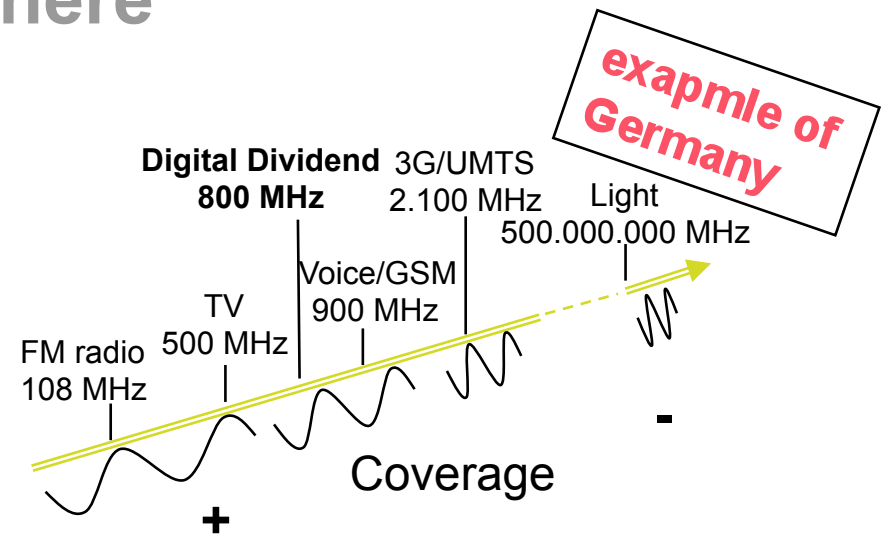
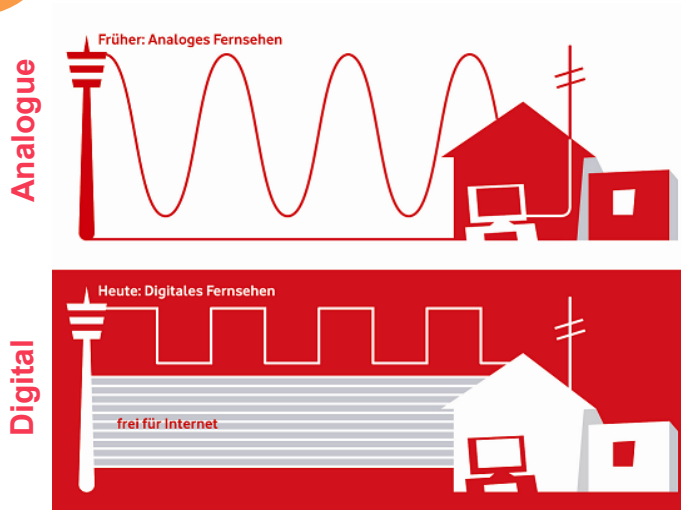
- LTE reality influenced by technology and regulatory background
- Services under LTE
 - existing fixed broadband services go mobile + special broadband-consuming mobility-services, e.g. RCS-e (Joyn)
 - frequency bands in different countries, LTE Roaming
- Business models for LTE interconnection
 - driven by new services, e.g. RCS-e interworking and charging principles
- Open Ends
 - Different frequency bands in different countries, LTE Roaming



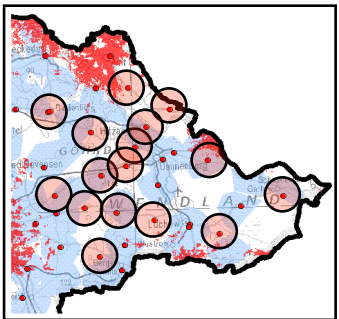
Thank You

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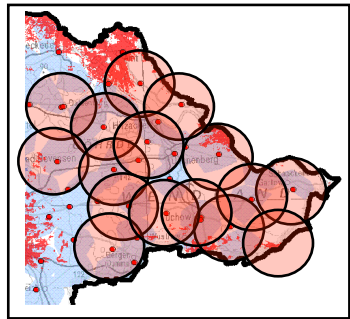
LTE: New spectrum makes broadband available everywhere



Maximum coverage in rural areas and buildings with 800 MHz spectrum



UMTS 2.100



LTE 800