





Business

Standards for







ITU-BDT Regional Seminar on Fixed Mobile Convergence and new network architecture for the Arab Region Tunis (Tunisia), 21-24 November 2005 Day 1 Session 1.2: International Framework

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN):

**Towards Fixed-Mobile converged Next Generation Networks** 

Prepared by: Alain Le Roux (France Telecom), ETSI TISPAN Chairman alainxavier.leroux@francetelecom.com Presented by: John Visser (Nortel), ITU-T SG19 Chairman jvisser@nortel.com



## **TISPAN\_NGN Genesis**









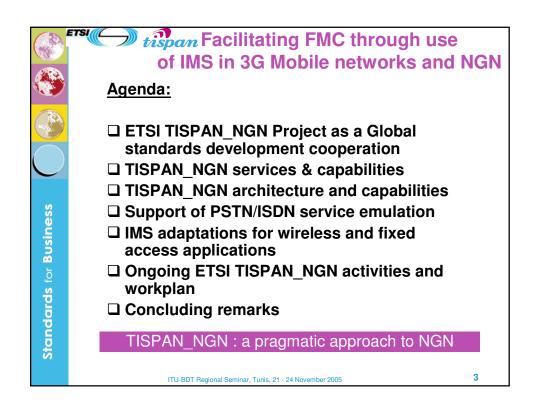
☐ SPAN, formed as a Technical Body from the joining of SPS (Services, Protocols & Switching) and NA (Network Aspects)

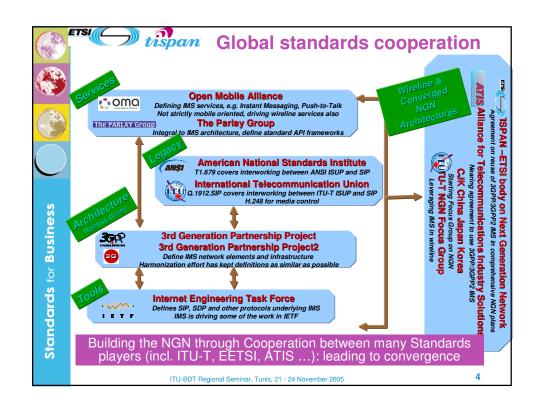
> **SPAN = Services** and **Protocols** for **Advanced N**etworks

☐ TIPHON, formed in 1997 as an ETSI Project to study VoIP and subsequently extended to any Telecom (including Multimedia) services over IP

> **TIPHON = T**elecommunications and Internet Protocol Harmonization Over Networks

> > ITU-BDT Regional Seminar, Tunis, 21 - 24 November 2005







## tispan\_NGN Services Requirements



☐ TISPAN\_NGN supports legacy POTS services (PSTN/ISDN Emulation)



- This is the same as the PSTN/ISDN Telephony service over an IP infrastructure
- This will enable use of the existing ISDN Supplementary services
- ☐ TISPAN is defining a Voice Service (Simulation)
  - Similar but not identical to existing PSTN service
  - Including "important" "supplementary" services
  - Based on IMS capabilities for basic voice call
  - If extensions needed, work in TISPAN; expected to be included in R7 of 3GPP IMS capabilities

☐ Standard capabilities with the aim to make the service applicable for other IMS networks than TISPAN IMS, e.g. mobile networks to facilitate seamless fixed mobile convergence for Telephony over IP services

New generation services ... without forgetting legacy (PSTN/ISDN emulated) services

ITU-BDT Regional Seminar, Tunis, 21 - 24 November 2005

5

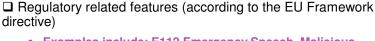




## \_NGN Regulatory and Operational Requirements







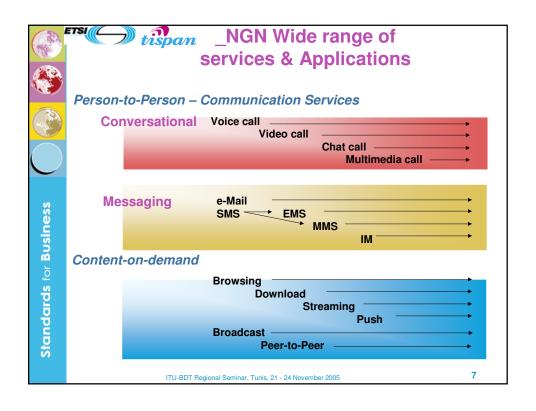


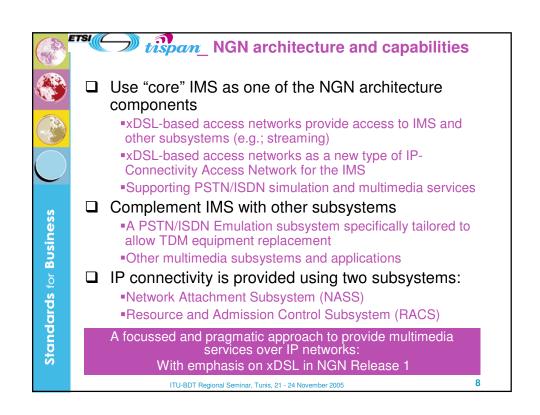
- Examples include: E112 Emergency Speech, Malicious Communication Identification and Anonymous Communication Rejection
- Validated location information
- ☐ Management & Operational needs including Charging and Accounting (Off-line, On-line, Flow-based)
- ☐ Solutions shall support the presence of NAT and Firewalls in the access network user premises, and assignment of IP addresses to the end user equipment by the access network
- □ NGN IMS supports identifiers for fixed lines as well as 3GPP IMS type user identifiers
- ☐ Presence, Instant Messaging, Conferencing ... Service enablers

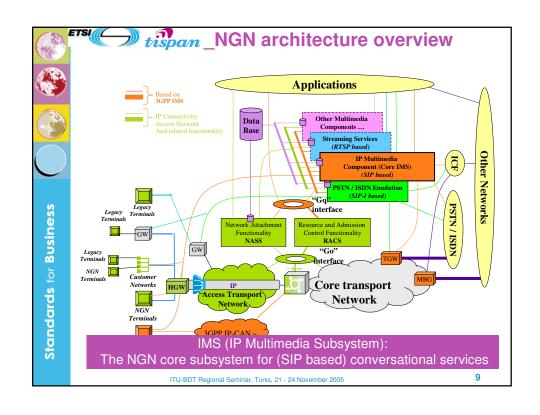
New generation services and regulatory requirements

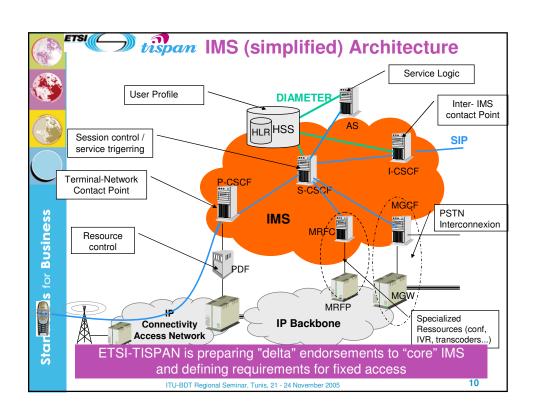
ITU-BDT Regional Seminar, Tunis, 21 - 24 November 2005

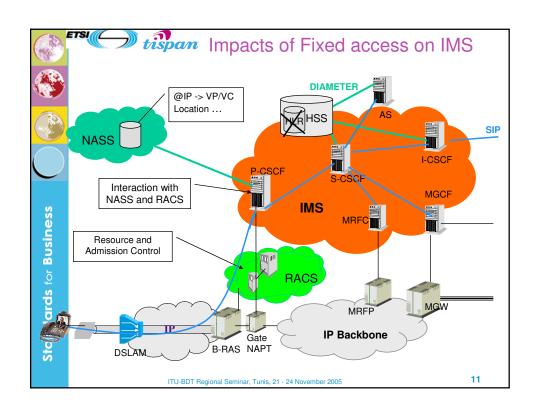


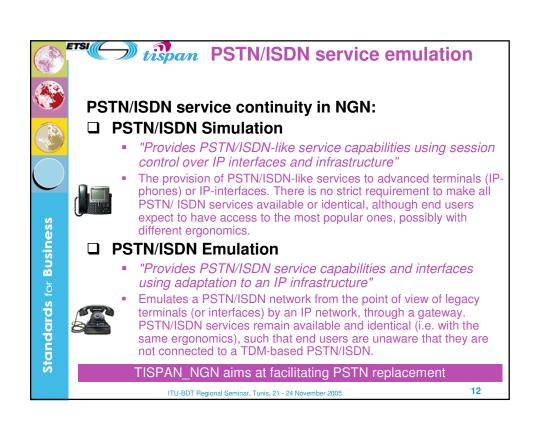




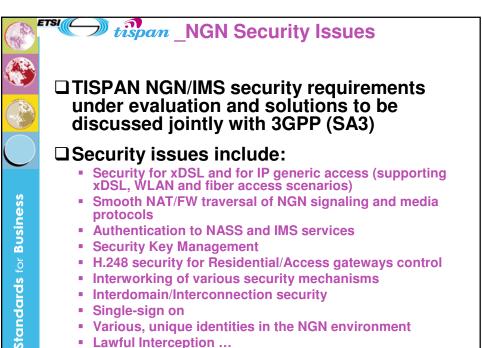












ITU-BDT Regional Seminar, Tunis, 21 - 24 November 2005

