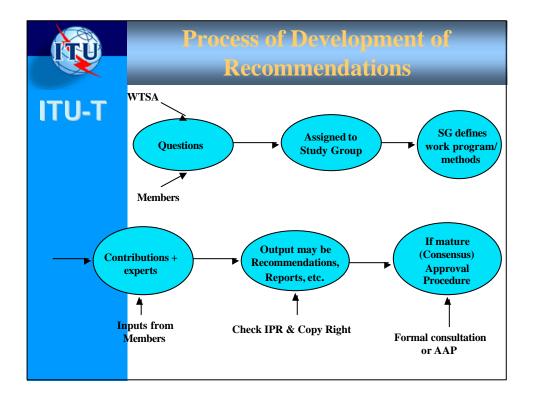
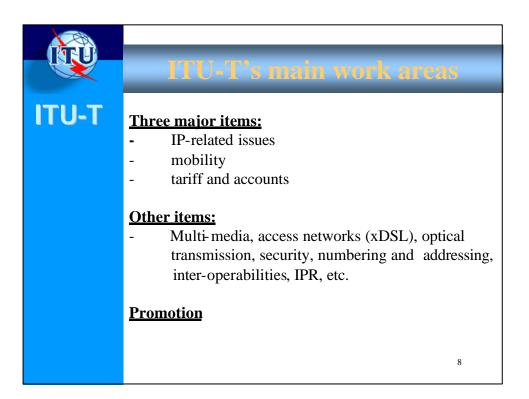


	World Telecommunication Standardization Assembly (WTSA)
ITU-T	<ul> <li>normally held every 4 years; WTSA-2000 in Montreal, WTSA-2004 to be in Florianopolis, Brazil</li> <li>approves ITU-T work program</li> <li>determines priorities, urgency and time-frame for completion of standards work</li> <li>approves ITU-T Recommendations</li> <li>considers reports of study groups and TSAG</li> <li>decides on structure of study groups, allocation of Questions</li> </ul>

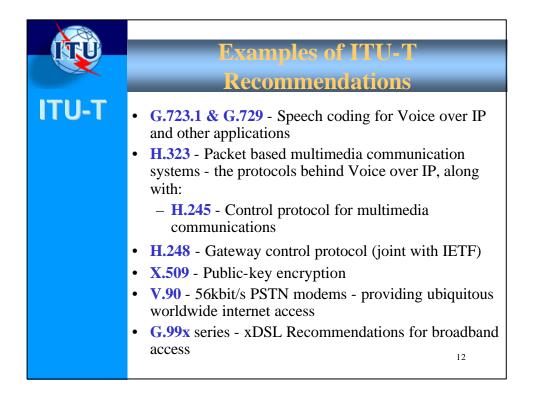




	IT	J-T Structure (1)
	Study Group <b>2</b> :	Operational aspects of service provision, networks and performance
ITU-T	Study Group <b>3</b> :	Tariff and accounting principles including related telecommunications economic and policy issues
	Study Group <b>4</b> :	Telecommunication management, including TMN
	Study Group <b>5</b> :	Protection against electromagnetic environment effects
	Study Group <b>6</b> :	Outside plant
	Study Group <b>9</b> :	Integrated broadband cable networks and television and sound transmission 9

INU	ITU-	T Structure (2)
	Study Group 11:	Signalling requirements and protocols
ITU-T	Study Group 12:	End-to-end transmission performance of networks and terminals
	Study Group <b>13</b> :	Multi-protocol and IP-based networks and their internetworking
	Study Group 15:	Optical and other transport networks
	Study Group 16:	Multimedia services, systems and terminals
	Study Group 17:	Data networks and telecommunication software
	Special Study Group:	IMT-2000 and beyond
	TSAG:	<b>Telecommunication Standardization</b> <b>Advisory</b> 10

ITU	Lea	d Study Groups in specific area of study
	SG 2	Lead Study Group for service definition, numbering and routing
ITU-T	SG 4	Lead Study Group on TMN
110-1	SG 9 network	Lead Study Group on integrated broadband cable and television
	SG 11	Lead Study Group on intelligent networks
	SG 12	Lead Study Group on Quality of Service and performance
	SG 13 Informa	Lead Study Group for IP related matters, B-ISDN, Global tion Infrastructure and satellite matters
	SG 15	Lead Study Group on access network transport Lead Study Group on optical technology
	SG 16	Lead Study Group on multimedia services, systems and terminals Lead Study Group on e-business and e-commerce
	SG17 security	Lead Study Group on frame relay, on communication system and on languages and description techniques
	SSG	Lead Study Group on IMT 2000 and beyond and for mobility

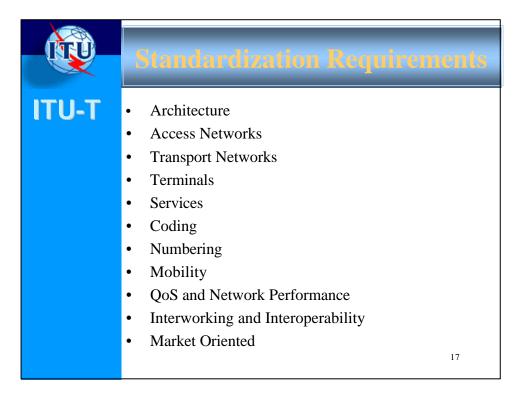


	ITU-T SG meetings
ITU-T	<ul> <li>SG 15 - Optical and other transport networks Geneva, 19 - 30 April 2004</li> <li>SG 4 - Telecommunication management, including TMN Geneva, 26 April – 7 May 2004</li> </ul>
	• SG 9 - Integrated broadband cable networks and television and sound transmission
	<ul> <li>Geneva, 10 - 14 May 2004</li> <li>SG 2 - Operational aspects of service provision, networks and performance Geneva, 18 - 28 May 2004</li> </ul>
	<ul> <li>SG 3 - Tariff and accounting principles including related telecommunications economic and policy issues Geneva, 31 May – 4 June 2004</li> </ul>
	<ul> <li>SG 6 - Outside plant</li> <li>Geneva, 14 - 18 June 2004</li> </ul>
	<ul> <li>World Telecommunication Standardization Assembly (WTSA- 04) Brazil, Florianopolis, 5–14 October 2004</li> </ul>

	ITU-T Workshops
ITU-T	<ul> <li>6. Convergent regulation - Is it becoming technology-neutral? Geneva, 17 May 2004</li> <li>6. All Star Network Access Geneva, 2 – 4 June 2004</li> <li>6. SDL and MSC'04 languages Ottawa, Canada, 2 – 4 June 2004</li> <li>6. Home Networking and Home Services Japan, 16-18 June 2004</li> <li>7. Use of ITU-T Languages Geneva, 19 July 2004</li> <li>7. Cybersecurity Symposium Brazil, Florianopolis, 4 October 2004</li> </ul>

	Recent ITU-T Workshops
ITU-T	<ul> <li>H.350, Directory services for multimedia networks Indiana University Purdue University, Indianapolis, Indiana, USA, 25 March 2004</li> <li>Use of UML for ODP and ITU-T languages Geneva, 14 March 2004</li> <li>High-level workshop on International Standards for Medical Technologies WHO (World Health Organization), Geneva, 26-27 February 2004</li> <li>ITU Seminar on Standardization Phnom Penh, Cambodia, 11-13 February 2004</li> <li>Outside Plant for the Access Network Hanoi, Vietnam, 24 November 2003</li> <li>Standardization in Telecommunications for motor vehicles Geneva, 24-25 November 2003</li> </ul>
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ITU	ITU-T and NGN
ITU-T	<ul> <li>Main study groups addressing NGN:</li> <li>SG 11 <ul> <li>Network Signalling and Control functional architectures in emerging NGN environments</li> <li>Signalling and control requirements and protocols to support user attachment in NGN environments</li> </ul> </li> <li>SG 13 <ul> <li>Functional requirements, services and architectures</li> </ul> </li> <li>SSG <ul> <li>Vision for IMT-2000</li> <li>Mobility Management</li> <li>Convergence of Fixed and Mobile</li> </ul> </li> <li>SG16 has developed MM Services specifications directly applicable to NGN with the H.323 system, H.248 gateway control protocol, QoS, Security, Services &amp; Applications</li> <li>N.B: all SGs have an "NGN" aspect to their work</li> </ul>

	ITU-T NGN Project
ITU-T	<ul> <li>Joint ITU-T SG13-SSG session on NGN, 5 Nov 02</li> </ul>
	NGN-2004 Project description
	http://www.itu.int/ITU-
	T/studygroups/com13/ngn2004/index.html
	Definition of NGN
	<ul> <li>Workshop on "Next Generation Networks: What, When and How?" Geneva, 9-10 July 2003</li> </ul>
	<ul> <li>Joint Rapporteurs Group on NGN (JRG- NGN)</li> </ul>



<b>REU</b>	What is NGN ?
ITU-T	<ul> <li>A full (carrier class and business class) service network         <ul> <li>Telephony and other Legacy (including Internet access) services</li> </ul> </li> </ul>
	<ul> <li>Data, including High speed access to Internet and its applications</li> <li>Video (VOD, Streaming)</li> <li>Digital TV Broadcast, Multimedia (combining all of the above)</li> </ul>
	<ul> <li>Mobility and Nomadism Interworking with Legacy services</li> <li>For Human and Machine users (including RFIDs machines)</li> <li>Network features and technical characteristics</li> </ul>
	<ul> <li>Packet-based (IP, MPLS, ATM, Ethernet) transport</li> <li>IP and service intelligence, in an IP-managed network</li> <li>Distributed, transport-resource-session-service independent control</li> </ul>
	<ul> <li>Using IP-friendly (well defined profile) protocols</li> </ul>



	When is NGN coming in ?
ITU-T	<ul> <li>Some (pre-NGN) pieces are already there:</li> <li>PSTN (VoIP, VoATM) trunking, some VoIP offers</li> <li>Private/corporate network solutions (Centrex IP, IP VPN)</li> </ul>
	<ul> <li>A long way to the 21<sup>st</sup> Network. Convergence of Telephony and Data (IT, Internet) approaches:         <ul> <li>PSTN/ISDN evolving towards NGN oriented platforms</li> <li>Replacement of obsolete PSTN/ISDN network elements: 2005 onwards</li> </ul> </li> </ul>
	<ul> <li>Packet Data networks evolution (Fixed-Internet convergence)</li> <li>Evolving from the current High Speed Internet access (ADSL, WLAN) platforms</li> <li>To offer new generation Services: 2005 onwards</li> <li>Mobile convergence (IMS): 2006 onwards 23</li> </ul>

	How will NGN be developed and deployed ?
ITU-T	<ul> <li>Replacing progressively legacy PSTN elements/areas         <ul> <li>Only when becoming obsolete (too little OPEX/CAPEX gain, particularly in Core)</li> <li>Migration of PSTN-&gt;NGN might accelerate after 2010 (PSTN lines moved to DSLAMs -&gt; VoIP)</li> </ul> </li> </ul>
	<ul> <li>Green field deployment (today)</li> <li>Overlay deployment, building over xDSL and Fiber- based access to Internet <ul> <li>ADSL is being deployed fast, with huge investments</li> <li>Opportunity to provide new (audio-data-video) services</li> </ul> </li> <li>Convergence between Fixed-Mobile and Internet services/applications <ul> <li>Nomadicity (Mobility Management for Roaming)</li> <li>Mobility through Fixed WLAN (spectrum from Fixed - &gt;Nomadic -&gt;Mobile)</li> <li>Harmonizing/Converging with Mobile IMS and IP-Cable</li> </ul> </li> </ul>

