

1.2.1b Key Results of Focus Group activity on NGN

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Chairman ITU-T FG NGN
Presented by John Visser

ITU-BDT Regional Seminar on Fixed Mobile Convergence and New Network Architecture for the Arab Region Tunis, Tunisia, 21-24 November 2005

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Global Standards Collaboration GSC#10 28 August – 2 September 2005 Sophia Antipolis, France





GTSC#3 Agenda Item: 5

Key Results of Focus Group activity on NGN

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Focus Group on NGN (FGNGN)

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NGN Management Focus Group (NGNMFG)

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1. Overview of NGN Focus Group

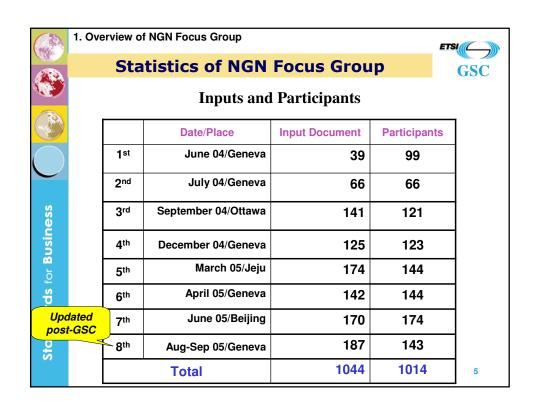
NGN Focus Group

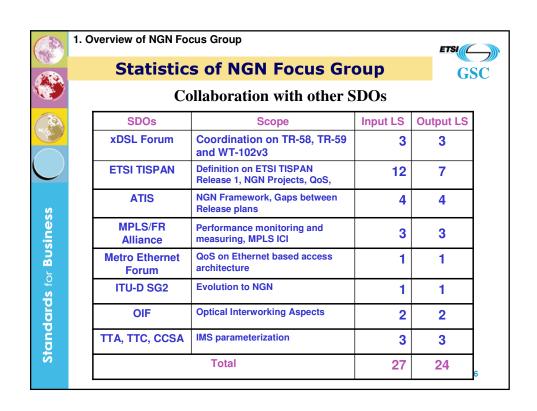




- ITU-T Director launched NGN Focus Group at June 2004
- Almost every two month meeting : 6, 7, 9, 11/2004 and 3, 5, 7, 9, 11/2005
- ITU-T SG13 (NGN SG) became parent group of FGNGN (WTSA 2004)
- Could be finished Release 1 and closed FGNGN end of 2005
- Results and Remaining works will be transferred to SGs by SG13

•									
	WG	Area	Deliverables						
	WG 1	SR (Service Requirements)	Development of scope, service requirements and capabilities according to Release Plan						
	WG 2	FAM (Functional Architecture, and Mobility)	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
-	WG3	DoS Development of End-End QoS releated deliverables include network performance aspects							
	WG 4	CSC (Control & Signalling)	Development of control related standards support QoS include Resource Admission and Control aspects						
	WG 5	SeC (Security Capability) Development of Security Framework under NGN environment							
	WG 6	Evol (Evolution)	Evolution of PSTN/ISDN into NGN						
	WG7	FPBN (Future Packet-based Bearer Network)	Identify problem states of current packet based network and development of Future Packet Network requirements						
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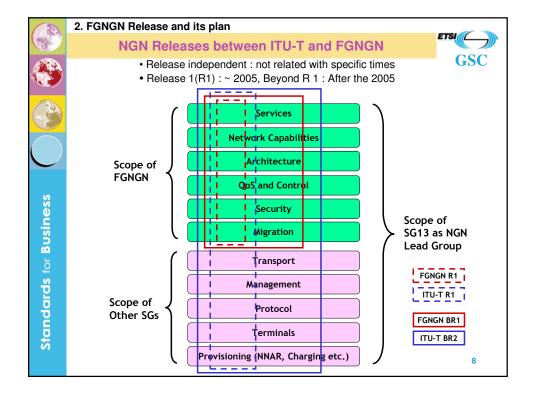
2. FGNGN Release and its plan

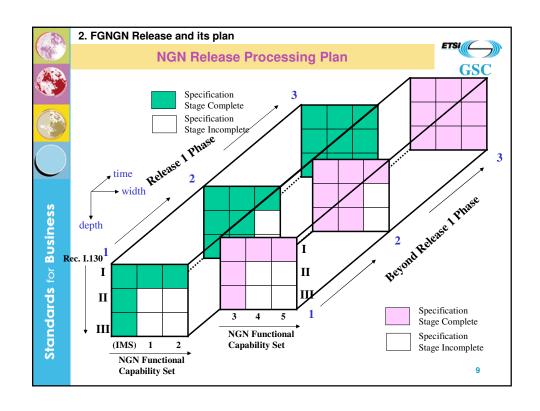
FGNGN Release Concept

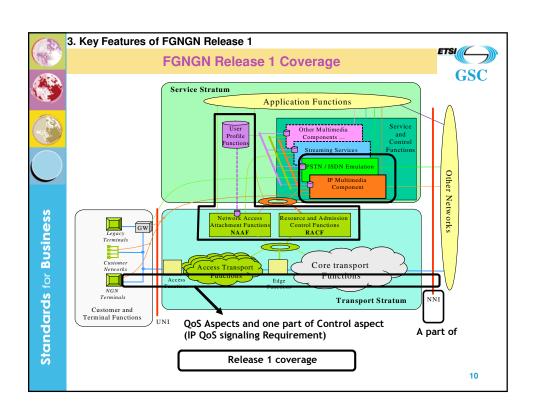


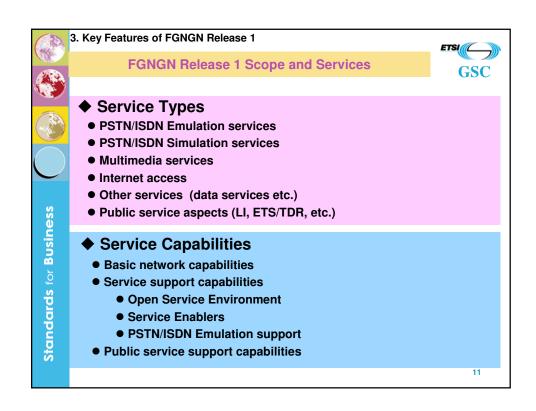
"The ITU-T NGN-FG plans to work on a Release basis. A Release is a method of prioritizing by identifying a set of services to be addressed in a certain time frame. The ITU-T NGN-FG should progress the work to define the service requirements and capabilities needed to realize the services in addition to defining other associated capabilities as needed to facilitate a NGN in a first Release. Preparatory work may also begin on a subsequent Releases based on Members inputs. The work progressed by the FG should be submitted to the appropriate ITU-T Study Group(s) as soon as practical after WTSA2004. The adoption of a release-based approach will not

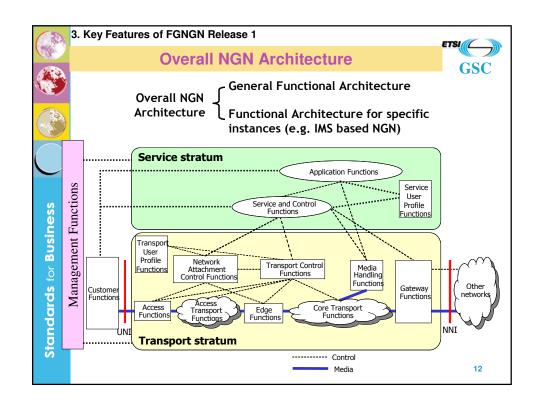
Preparatory work may also begin on a subsequent Releases based on Members inputs. The work progressed by the FG should be submitted to the appropriate ITU-T Study Group(s) as soon as practical after WTSA2004. The adoption of a release-based approach will not prevent other work, such as the development of more generic (release independent) capabilities, and the collation of services, requirements and issues for later releases. The FG recommends that successor groups in ITU-T doing NGN work to consider the release approach with Release 1 as scoped by the FG."

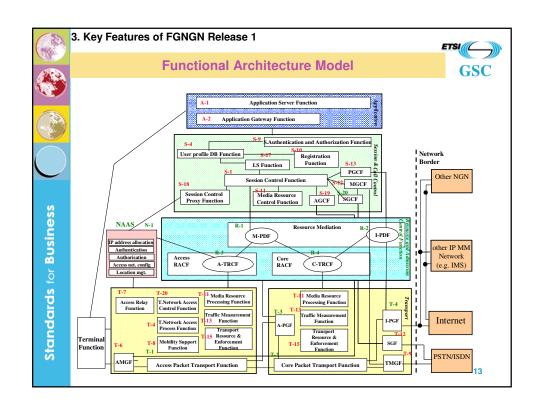


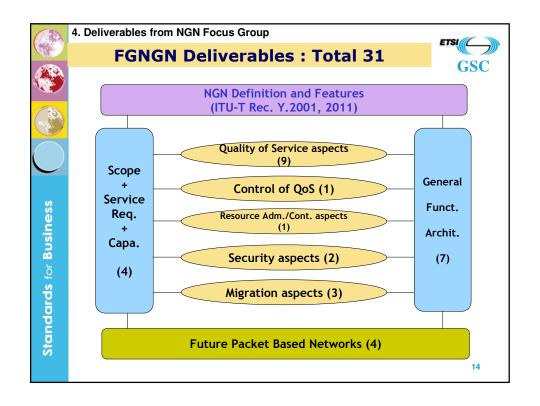












	FGNGN Deliverables : Total 31					GSC		
)	(1) Release Indep	endent Del	iverab	les				
WG	Deliverable Title	Current Draft	Target Date	Cat.	Sta t	Targe SG*		
1	NGN release-independent requirements	(none)	4Q05	0/1/1	P	13		
1	NGN general services and capabilities (release independent)	(none)	4Q05	0/1/1	P	13		
2	Customer Manageable IP Network	Approved	2Q05	0/2/1	S	13		
3	General aspects of QoS and network performance in NGN (TR-NGN.QoS)	FGNGN-OD- 00166	3Q05	0/1/1	D	13/12		
3	Network performance of non- homogeneous networks in NGN (TR- NGN.NHNperf.).	FGNGN-OD- 00167	3Q05	0/1/1	D	13/12		

		FGNGN Delive	erables : To	tal 31	L	ETS	GSC
		(2) Release 1 Deliverables					
W	/G	Deliverable Title	Current Draft	Target Date	Cat.	Stat	Target SG*
- 1	1	NGN Release 1 Scope	FGNGN-OD-00184	3Q05	1/1/1	S	13
1	1	NGN Release 1 requirements	FGNGN-OD-00188	3Q05	1/1/1	D	13
1	2	Functional Requirements & Architecture for NGN (FRA)	FGNGN-OD-00192	4Q05	1/2/1	S	13
1	2	Functional Requirements for NGN Mobility (FRMOB)	FGNGN-OD-00195	4Q05	1/2/1	D	13 /19
1	2	IMS for Next Generation Networks (IFN)	FGNGN-OD-00193	4Q05	1/2/1	S	13
1	2	PSTN/ISDN emulation architecture	FGNGN-OD-00198	4Q05	1/2/1	D	13
3	3	A QoS control architecture for Ethernet-based IP access networks	Approved	Mar. 05	1/2/1	A	13
3	3	Multi Service Provider NNI for IP QoS (TR-msnniqos)	FGNGN-OD-00107	3Q05	1/2/1	D	13

		FGNGN Delive	FGNGN Deliverables : Total 31							
		(2) Release 1 Deliverables								
,	WG	Deliverable Title	Current Draft	Target Date	Cat.	Stat	Target SG*			
	3	Requirements and framework for end-to-end QoS in NGN (TR-e2eqos.1)	FGNGN-OD-00170	4Q05	1/2/1	D	13			
	3	A QoS architecture for Ethernet networks (TR-enet)	FGNGN-OD-00171	4Q05	1/2/2	D	13			
	3	Resource and admission control functions(TR-racf)	FGNGN-OD-00165	3Q05	1/2/2	D	13			
	3	A QoS Framework for IP-based access networks (TR-ipaqos)	FGNGN-OD-00113	4Q05	1/2/1	D	13			
	3	Performance measurement and management for NGN (TR-pmm)	FGNGN-OD-00168	3Q05	1/2/1	D	12			
	3	Algorithms for Achieving End to End Performance Objectives (TR-apo)	FGNGN-OD-00169	4Q05	1/2/2	D	12			
	4	Signalling requirements for IP QoS TRQ.IP QoS.SIG.CS1	Q Series Supplement 51	Dec. 2004	1/2/2	A	11			
	5	Security Requirements for R1	FGNGN-OD-00132	1Q05	1/2/1	S	17			
	6	Evolution of Networks to NGN	FGNGN-OD-00175	3Q05	1/2/1	D	13			
	6	PSTN/ISDN evolution to NGN	FGNGN-OD-00176	3Q05	1/2/1	D	13			
	6	PSTN/ISDN emulation and simulation	FGNGN-OD-00177	3005	1/2/1	D	13 17			

	4	. Deliverables from NGN Focus Gr	•	1.24		ETS	
		FGNGN Deliverables : Total 31					
)	(3) Beyond F	Release 1 Deli	verab	les		
W	VG	Deliverable Title	Current Draft	Target Date	Cat.	Stat	Target SG*
	2	Functional Requirement for Soft Router	FGNGN-OD-00145	TBD	2/2/1	D	13
	2	Digital Multimedia Broadcast	FGNGN-OD-00144	TBD	2/2/1	P	13
3	2	Converged Services Framework	FGNGN-OD-00196	4Q 05	2/2/1	P	13
	5	Guidelines for NGN Security	FGNGN-OD-00173	3Q 05	2/2/1	D	17
,	7	Problem Statement	Approved	Apr. 2005	2/1/1	A	13
,	7	Requirements	FGNGN-OD-00178	3Q05	2/1/1	S	13
,	7	High Level Architecture	FGNGN-OD-00179	4Q05	2/2/1	D	13
į ,	7	Candidate Technologies	FGNGN-OD-00180	4Q05	2	D	13
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5. Future Plan

Plan for 2005





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5th FG NGN: 14 ~ 22 March, Jeju-island Korea
 NGN Technical Workshop: 12 ~ 13 Korea

• 6th FG NGN: 26 April ~ 30 April, Geneva Swiss

ITU-T and IETF Joint NGN Workshop 1 ~ 2 May, Geneva, Swiss

● 7th FG NGN: 27 June ~ 1 July (Beijing, China)

● 8th FG NGN: 24 August ~ 2 September, Geneva Swiss

• 9th FG NGN: 14 November ~ 18 November, London UK



Complete Release 1 transfer all scope to relevant SGs (SG11, 12, 13, 19) through SG 13

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NGN Management Focus Group (NGNMFG)





- ☐ Established by ITU-T SG 4 in Sept 2004 at FGNGN request to support NGN Release 1
- Based on collaboration with SDOs, forums, and consortia (initially 8; see below)
- ☐ Focused on the following (FCAPS) management interfaces:
 - Network Element –Operation Systems
 - **→** Operations System Operations System
 - > Human Machine
- □ NGNMFG report to SG 4 due September 2005

FCAPS - Fault, Configuration, Accounting, Performance, and Security Management





NGN Management FG – Objectives





- ☐ To agree with the high level management requirements in Y.2001, Y.2011, and the FGNGN FRA.
- ☐ To determine from them, the functional and physical entities to be managed for Release 1.
- ☐ To produce a NGN Management Roadmap focused on Release 1 which identifies
 - > Requirements
 - > Framework, principles, and architecture
 - Interface specifications, both protocol-neutral and protocol-specific
- ☐ To emphasize reuse of partner organizations' specifications
- □ To identify gaps and best organization(s) to fill the gaps
- ☐ As a last resort, to produce specifications deemed to be necessary but unavailable from any source. 21



NGN Management Roadmap - 1







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□ITU-T SG 4

- >M.3016 series (security of the management plane)
- **►M.3050** series (Enhanced Telecom Operations Map)
- >M.3060 (NGN principles and architecture)
- >M.3341 (QoS/SLA management service requirements)
- >M.3350 (Emergency telecommunication service management requirements)

□ITU-T SG 15

➤ G.7718, G.7718.1 (ASON control plane management)

DETSI TISPAN WG8

- >TS 08006 (Vision for NGN OSS)
- >DTS 08007 (NGN OSS architecture for R1)

□TeleManagement Forum

- > Enhanced Telecom Operations Map (eTOM, =M.3050)
- > Multi-technology Network Management (MTNM)





NGN Management Roadmap - 2





- >32.111 series (alarm IRP)
- >32.200 series (subset for IMS charging and billing)
- >32.300 common management series (IRPs for notification, generic)
- >32.600 series (interface IRPs for basic CM, kernel CM; NRM) IRPs for generic, core; data definition IRPs for state management)

OASIS

>WSDM-MUWS (Web services distributed management)

□ IETF

- >RFC 3444 (On the difference between information models and data models)
- >RFC 3535 (Overview of the 2002 IAB network management workshop)
- Netconf (Network configuration protocol)
- >SNMP v3 (Simple network management protocol)

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NGN Management Roadmap - 3





Usage data for packet-based services

- > 0300075 (Service –neutral architecture and protocol requirements)
- > 0300075.1 (Service-neutral protocol specifications for billing applications)

Note 1: The above list of specifications is preliminary.

Note 2: Some of the above specifications are in draft form.

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Thank you for your attention !!!