

Source: 3GPP TSG-N-WG2
Title: Proposal for TSG-N baseline documents
Document for: Discussion and Decision

Introduction

This document is based on 3GPP N2-99035, which was presented in the joint SMG3 WPC'/TSG-N-WG2 meeting in Sophia Antipolis, 16 – 18 February 1999. It identifies the specifications which are seen as being the responsibility of TSG-N-WG2, and gives a preliminary assessment of the impact on the specification of 3GPP work.

To be able to start the work in 3GPP, it is essential that the specification structure and specification responsibilities are settled no later than the first WG meeting which deals with technical specification work. As 3GPP work is based on GSM evolution, the GSM specifications of GSM Release 98 are used as a basis, as agreed in TSG-N#1.

Most specifications will have a single evolution path from GSM to G-UMTS, comparable to moving from Release 97 to 98. However, some specifications may be limited to GSM only, and do not need a 3GPP counterpart, and some new specifications must be created specifically for 3GPP. In a similar fashion, some specifications will diverge, creating two distinct documents.

To meet the targets set for 3GPP, the work itself must be focused. Priorities must be set, i.e. the most important specifications must be identified, to be updated already for draft Release 99, due in April 1999. The target is, of course, to carry the entire GSM Release 98 to the GSM/UMTS Release 99.

The attachment looks at the specifications from TSG-CN and SMG3 points of view. It lists all GSM specifications that have either SMG3 or SMG4 responsibility, excluding some SMG4 specifications that clearly belong to TSG Terminals. The excluded specifications include SMS and CBS related specifications.

The columns indicate

- specification number
- specification name
- latest version
- responsible STC
- responsible SMG3 WP
- scope, either SMG or 3GPP
- proposed responsible WG in TSG-CN
- notes
- estimated level of impact

If the specification is considered of major importance, especially due to draft Release 99, the row is shaded in grey.

If the specification is relevant only for GSM, the scope SMG is indicated.

If the specification is relevant for G-UMTS, the scope 3GPP is indicated.

If the specification is relevant for both GSM and G-UMTS, but either a totally new 3GPP specification is needed, or that the SMG and 3GPP are expected to diverge, making a single document unfeasible, the scope SMG and 3GPP is indicated.

Proposal

TSG-N are encouraged to review this list, and confirm or amend the proposal as considered appropriate.

It is proposed that no new specifications are created unless considered very important for Release 99, to avoid jeopardising the 04/99 and Release 99 milestones.

It is proposed that TSG-N concentrates its initial work on the specifications identified as the most important for draft Release 99.

1. Existing SMG3 and SMG4 specifications affected by UMTS phase 1 Refinement:
 - 1S small modifications expected
 - 1M medium modifications expected
 - 1L Large/major modifications expected.
2. Existing SMG3 GSM specifications used but not affected by UMTS phase 1
3. Existing SMG3 GSM specifications not used in UMTS phase 1
4. New SMG3 UMTS phase 1 specifications
5. GSM specifications not relevant for UMTS and not be maintained any more even for the GSM

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
01.02	General Description of a GSM PLMN	5.0.0	SMG1, PT12, SMG2, SMG3			x	-	-	-	TSG-SA	1M
01.04	Abbreviations and Acronyms	5.0.1	PT12, SMG1-4, SMG6-12			x	-	-	-	PT12	1M
02.09	Security Aspects	5.1.0	SMG10, SMG1, SMG3			x	-	-	-		1M
02.11	Service Accessibility	7.0.0	SMG1, SMG3, SMG2			x	-	-	-		1M
02.30	Man-Machine Interface (MMI) of the Mobile Station (MS)	6.0.1	SMG1, SMG3			x	-	-	-	TSG-SA/Serv and TSG-T/Serv	1M
03.01	Network Functions	5.1.0	SMG3	WPA		x	x				
03.02	Network Architecture	6.1.0	SMG3, SMG4			x	-	-	-	TSG-SA/Arch	
03.03	Numbering, Addressing and Identification	6.1.0	SMG1 SMG3			x	x	x		Support of IP addressing may require changes	1M
03.04	Signalling Requirements Relating to Routing of Calls to Mobile Subscribers	5.0.0	SPS, SMG3, SMG4	WPC		x		x		Dormant spec	5
03.05	Technical Performance Objectives	5.0.0	SMG3	WPC		x		x		Dormant spec	
03.07	Restoration Procedures	6.1.0	SMG3	WPC		x		x			1S
03.08	Organization of Subscriber data	6.2.0	SMG3	WPC		x		x			1M
03.09	Handover Procedures	5.1.0	SMG3, SMG2	WPA	x	x	-x	-x	-	TSG-R. A new specification will be needed to deal with handover between UMTS and GSM	1L
03.10	GSM PLMN Network Connection Types	7.0.0	SMG4, SMG1-3		x	x			x		1M

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
03.11	Technical Realization of Supplementary Services	5.0.0	SMG3	WPB		x		x			1L
03.12	Location Registration Procedures	5.0.0	SMG3	WPB		x	x	x			1M
03.14	Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System	5.0.0	SMG3	WPA		x	x				2
03.15	Technical Realization of Operator Determined Barring	6.0.0	SMG3	WPC		x		x			1S
03.16	Subscriber Data Management - Stage 2	6.2.0	SMG3	WPC, WPB		x		x			1M
03.18	Basic call handling, Technical Realisation	6.2.0	SMG3	WPC	x?	x		x			1MS
03.20	Security-related Network Functions	6.0.0	SMG3, SMG2		*?	x	x	x	x	Prime resp. TSGS	1M
03.22	Functions Related to Mobile Station (MS) in Idle Mode	6.0.0	SMG3, SMG2			x	x			RAN specific parts to be removed. Spec to be split.	1L 2
03.26	Multi Band Operation - Stage 2	5.2.0	SMG2, SMG3		*	x	x			Separate Multimode spec is needed in 3GPP.	2 4
03.32	Universal Geographical Area Description (GAD)	5.2.0	SMG3	all		x	-	-	-	TSG-SA	
03.34	High Speed Circuit Switched Data (HSCSD) - Stage 2	5.1.0	SMG3	WPA		x	x				2
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	7.1.0	SMG4, SMG3			x	x	-	-	TSG T. The protocol is with TSG-N?	2
03.43	Support of Videotex	5.0.0	SMG4				-	-	-		5
03.44	Support of Teletex in a GSM PLMN	5.0.0	SMG4				-	-	-		5
03.45	Technical Realization of Facsimile Group 3 Service Transparent	5.2.1	SMG4				xx		x	New 3G facsimile protocol is needed	2 4
03.46	Technical Realization of Facsimile Group 3 Service non Transparent	5.0.0	SMG4					-	-		5
03.53	Transcoder free operation (TFO)	7.0.0	SMG12, SMG3, SMG11		x	x		-	-	TSG-R (open issue, GSM x TBD)	
03.54	Shared Interworking Function stage 2	5.2.0	SMG4		x	x			x		2
03.60	GPRS Stage 2	6.2.0	SMG12, SMG3			x	*	*	*	Maintenance: TSG-N RLC-MAC issue, maybe joint TSG-N and TSG-SA/TSG-S WG2 with TSG-N subcontracting possible	1M
03.63	Packet Data on Signalling Channels - Stage 2	5.1.0	SMG3	WPA	x		*			No UMTS version needed	5
03.64	General Packet Radio Service (GPRS); Stage 2	6.1.0	SMG3	WPA	x	x		-	-	TSG-R	3
03.67	Enhanced Multiple Level Priority and Preemption - Stage 2 (ASCI)	5.1.0	SMG3	WPB	*	x	(*)	x			3

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
03.68	Voice Group Call Service (VGCS) - Stage 2 (ASCI)	6.1.0	SMG3	WPA	*	x	*	x		WG1 for GSM WG2 for UMTS	23
03.69	Voice Broadcast Service (VBS) - Stage 2 (ASCI)	6.1.0	SMG3	WPA	*	x	*	X		WG1 for GSM WG2 for UMTS	23
03.70	Routing of Calls to/from Public Data Networks (PDN)	5.0.0	SMG4			x			x		2
03.72	Call Deflection (CD) Supplementary Service; stage 2	1.4.1	SMG3 WPB	WPB		x		X			2
03.78	CAMEL - Stage 2	6.2.0	SMG3	WPC		x		x			1LS
03.79	Support of Optimal Routing phase 1 - Stage 2	5.4.0	SMG3	WPC		x		x			1S
03.81	Line Identification Supplementary Services - Stage 2	5.2.0	SMG3	WPB		x		x		Support of IP addressing may require changes	1L
03.82	Call Forwarding (CF) Supplementary Services - Stage 2	5.0.0	SMG3	WPB		x		x		Multicall requires changes	1S
03.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 2	5.0.0	SMG3	WPB		x		x		Multicall requires changes	1S
03.84	Multi Party (MPTY) Supplementary Services - Stage 2	5.0.0	SMG3	WPB		x		x		Multicall requires changes	1S
03.85	Closed User Group (CUG) Supplementary Services - Stage 2	5.0.0	SMG3	WPB		x		x			2
03.86	Advice of Charge (AoC) Supplementary Services -Stage 2	5.0.0	SMG3	WPB		x		x			2
03.87	User-to-user signalling (UUS), Stage 2	0.3.0	SMG3	WPB		x		x			2
03.88	Call Barring (CB) Supplementary Services - Stage 2	5.0.0	SMG3	WPB		x		x			2
03.90	Unstructured Supplementary Service Data (USSD)	5.0.0	SMG3	WPB		x		x			2
03.91	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	5.0.2	SMG3	WPB		x		x			2
03.93	Call Completion to Busy Subscriber (CCBS) - Stage 2	6.2.0	SMG3 WPB	WPB		x		x		Multicall requires changes	1M
03.96	Name Identification Supplementary Services; Stage 2	6.0.0	T1P1	WPB		x		x		Support of IP addressing may require changes	1M
03.97	Multiple Subscriber Profile (MSP) - Stage 2	0.8.0	SMG3	WPB		x		x		Phase 2 will require specific features in CAMEL phase 3	1M2
04.01	MS-BSS Interface - General Aspects and Principles	5.0.0	SMG3	WPA	x	x	x				
04.02	GSM PLMN Access Reference Configuration	5.0.0	SMG3, SMG2	WPA		x	-	-	-	TSG-R	
04.03	MS-BSS Interface - Channel Structures and Access Capabilities	6.0.0	SMG3		x	x	-	-	-	TSG-R	
04.04	Layer 1 - General Requirements	6.0.0	SMG3, SMG2		x	x	-	-	-	SMG2, TSG-R	
04.06	MS-BSS Interface Data Link (DL) Layer Specification	5.2.0	SMG3		x	x	-	-	-	SMG2, TSG-R	
04.07	Mobile Radio Interface Signalling Layer 3 - General Aspects	6.2.0	SMG3	WPA		x	x			RAN specific parts to TSG-R. Spec to be split.	1L

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
04.08	Mobile Radio Interface - Layer 3 Specification	6.2.0	SMG3	WPA		x	x			RAN specific parts to TSG-R. Spec to be split	1L
04.10	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	6.0.0	SMG3	WPB		x	x			To be agreed with SMG3 WPB, WG2	
04.11	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	6.0.0	SMG3, SMG4	WPA		x	x				
04.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	5.0.1	SMG2, SMG4		*	x	x				
04.13	Performance Requirements on Mobile Radio Interface	5.1.0	SMG3, SMG2	WPA	x	x	*			Also TSG-R	
04.21	Rate Adaptation on Mobile Station - Base Station System (MS-BSS) Interface	7.0.0	SMG4		x	x			x		3
04.22	Radio Link Protocol (RLP) for Data and Telematic Services on the MS-BSS Interface and the BSS-MSC Interface	6.1.0	SMG4		x	x			x		
04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	5.0.0	SMG3	WPA	x		*			No UMTS needed	5
04.64	LLC specification GPRS	6.2.0	SMG3	WPA		x	x			Role of LLC in UMTS is open in SMG12	1M
04.65	GPRS Subnetwork Dependent Convergence Protocol (SNDCP)	6.2.0	SMG3	WPA		x	x			Role of LLC in UMTS is open in SMG12	1M
04.67	Enhanced Multi-Level Precedence and Pre-emption service	5.0.0	SMG3 WPD	WPB	x	x	(x)	x			3
04.68	Group Call Control Protocol	5.1.0	SMG3	WPA	*	x	*				3
04.69	Broadcast Call Control (BCC) protocol	5.1.0	SMG3	WPA	*	x	*				3
04.72	Call Deflection (CD) Supplementary Service; Stage 3	1.2.0	SMG3	WPB		x		x			2
04.80	Mobile Radio Interface Layer 3 - Supplementary Services Specification - Formats and Coding	6.1.0	SMG3	WPB		x		x		Multicall requires changes	1M
04.81	Line Identification Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	X?		Support of IP addressing may require changes. Should individual stage 3 (access) SS specs be the responsibility of CN-WG1?	1L
04.82	Call Forwarding (CF) Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	X?		Multicall requires changes	1S
04.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	X?		Multicall requires changes	1S
04.84	Multi Party (MPTY) Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	X?		Multicall requires changes	1S
04.85	Closed User Group (CUG) Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	X?			2
04.86	Advice of Charge (AoC) Supplementary Services - Stage 3	5.0.0	SMG3	WPB		x	X?	x?			2

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
04.87	User-to-user signalling (UUS), Stage 3	0.0.0	SMG3	WPB		x	X?	x?			2
04.88	Call Barring (CB) Supplementary Services - Stage 3	6.0.0	SMG3	WPB		x	X?	x?			2
04.90	Unstructured Supplementary Service Data (USSD)	5.0.0	SMG3	WPB		x	X?	x?			2
04.91	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	5.1.0	SMG3	WPB		x	X?	x?			2
04.93	Call Completion to Busy Subscriber (CCBS) - Stage 3	6.1.0	SMG3 WPB	WPB		x	X?	x?		Multicall requires changes	1M
04.96	Name Identification Supplementary Services; Stage 3	6.0.0	T1P1	WPB		x	X?	x?			2
07.01	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	7.0.0	SMG4		x	x			x		3
07.02	Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities	7.0.0	SMG4		x	x			x		3
07.03	Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities	6.0.0	SMG4		x	x			x		3
08.01	BSS-MSC Interface - General Aspects	5.0.0	SMG3			x	x	*		TSG-R main resp.	1L
08.20	Rate Adaptation on the BSS-MSC Interface	7.0.0	SMG4		x	x			x		3
08.54	BSC-BTS Interface - Layer 1 Structure of Physical Circuits	5.0.0	SMG3		x	x	-	-	-	TSG-R	
08.61	Inband Control of Remote Transcoders and RateAdaptors (Half Rate)	5.0.0	SMG3, SMG2	2WPA, WPC	x	x	-	-	-	TSG-R	
09.01	General Network Interworking Scenarios	5.0.0	SMG3			x		x			1M
09.02	Mobile Application Part (MAP) Specification	6.2.0	SMG3, SPS2	WPC		x		x			1M
09.03	Signalling Requirements on Interworking between the ISDN or PSTN and the PLMN	5.0.0	SMG3, SMG4, SPS1	WPC		x		x	x?	Dormant spec	5
09.04	Interworking between the PLMN and the CSPDN	5.0.0	SMG4			x			x		2
09.05	Interworking between the PLMN and the PSPDN for Packet Assembly/Disassembly (PAD) Access	5.0.0	SMG4			x			x	Dedicated services to be removed	2
09.06	Interworking between a PLMN and the ISDN or PSTN for Support of Packet Switched Data Transmission Services	5.0.1	SMG4			x			x	Dedicated services to be removed	2
09.07	General Requirements on Interworking between the PLMN and the ISDN or PSTN	7.0.0	SMG4, SMG3			x			x		2
09.08	Application of the Base Station System Application Part(BSSAP) on the E-Interface	5.1.0	SMG2, SMG3	2WPA	x	x	(x)		x?	Also TSG-R	
09.09	Detailed Signalling Interworking within the PLMN and with the PSTN/ISDN(REP)	3.0.0	SMG3	WPC		x	x?	(x)	x?	Dormant specification	5

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
09.10	Information Element Mapping between Base Station Application Part (BSSAP) and the Mobile Application Part (MAP) Signalling	6.0.0	SMG3, SMG2	WPC	x	x	(x)	(x)		Maintenance To be replaced by a single interworking spec covering both basic and supplementary service interworking; primary resp. in WG2, secondary in WG1.	1M
09.11	Signalling Interworking for Supplementary Services	6.0.0	SMG3	WPB		x	(x)	x		See GSM 09.10	
09.12	Application of ISUP Version 2 for the ISDN PLMN (GSM) Signalling	4.1.1	SPS1, SMG3	WPB, WPC		x		x		Dormant specification	5
09.13	Signalling Interworking Between ISDN Supplementary Services ASE and MAP Protocols	6.0.0	SMG3	WPB		x		x		This specification is very ETSI-specific; the recommended action is for each RSO to define its own functional equivalent.	3
09.14	Application of ISUP Version 3 for the ISDN PLMN (GSM) Signalling	?.?.?	SPS1, SMG3	WPB, WPC		x		x		This specification is very ETSI-specific; the recommended action is for each RSO to define its own functional equivalent.	3
09.16	GPRS, Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs Interface Network Service Specification	6.0.0	SMG3	WPA		x	x				1S
09.18	GPRS; Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	6.2.0	SMG3	WPA		x	x				1S
09.60	GPRS Tunnelling Protocol (GTP) across the Gn and Gp Interface	6.2.0	SMG3	WPC		x		x	*	This specification has a functional role very similar to that of MAP, i.e. its primary purpose is to define control signalling; the data transmission protocol is secondary.	1M
09.61	Inter-working between the Public Land Mobile Network (PLMN) supporting GPRS and Packet Data Networks (PDN)	6.3.0	SMG4			x			x		1M
09.78	CAMEL Application Part (CAP) Specification	6.2.0	SMG3	WPC		x		x			1LS
09.90	Interworking between Phase 1 Infrastructure and Phase 2 Mobile Stations (MS)	5.0.0	SMG2, SMG3	WPA	x	x	x			New specification needed to cover phase 2-to-UMTS	1L

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
09.94	Recommended infrastructure measures to overcome specific Phase 1 Mobile Station (MS) faults	5.0.0	SMG3	WPA	x		x			Hopefully never needed in UMTS	3
10.00	Feature Descriptions	7.0.0	SMG12, SMG1-4, SMG6-11			x					
10.57	Mobile Station Execution Environment (MExE), Project scheduling and open issues	7.0.0	SMG4			x	-	-	-		5
10.60	General Packet Radio Service (GPRS); Project scheduling and open issues	6.0.0	SMG3			x	-	-	-		5
10.68	ASCI; Project scheduling and open issues	5.0.0	SMG3			x	-	-	-		5
11.10-1	Mobile Station (MS) Conformity Specifications	5.7.0	SMG7, PT48V, PT12, SMG2, SMG3		x	x					
11.10-2	Protocol Implementation Conformance Statement Proforma Specification	4.15.0	SMG7, PT48V, PT12, SMG2, SMG3		x	x					
11.10-3	Mobile Station (MS) Conformity Specifications, Layer 3 (L3) Abstract Test Suite (ATS)	5.0.0	SMG7, PT48V, PT12, SMG2, SMG3		x	x					
11.20	The GSM Base Station System (BSS) Equipment Specification	3.19.0	SMG8, SMG2, SMG3		x	x	-	-	-		
11.20-DCS	The GSM Base Station System (BSS) Equipment Specification	3.13.0	SMG8, SMG2, SMG3		x	x	-	-	-		
11.30	Mobile Services Switching Centre (REP)	3.2.1	SMG3, SMG1			x					
11.31	Home Location Register Specification (REP)	3.2.1	SMG3, SMG1			x					
11.32	Visited Location Register Specification (REP)	3.2.1	SMG3, SMG1			x					
12.01	Common Aspects of Public Land Mobile Network (PLMN) Management	4.4.0	SMG6, SMG3			x				TSG-N	
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	5.0.0	SMG6, SMG1			x				TSG-N	
12.03	Security Management	4.2.0	SMG6, SMG1, SMG3			x				TSG-N	
12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	4.3.0	SMG6, SMG1, SMG3			x				TSG-N	
12.06	Network Configuration Management	4.1.0	SMG6, SMG3			x				TSG-N	
12.07	Public Land Mobile Network (PLMN) Quality of Service	3.0.2	SMG6, SMG1, SMG3			x				TSG-N	
12.08	Subscriber and Equipment Trace	5.1.0	SMG6, SMG3			x				TSG-N	
12.10	Maintenance Provisions for Operational Integrity of Mobile Stations (MS)	3.0.1	SMG6, SMG1-3			x				TSG-N	
12.13	Maintenance of the Mobile-services Switching Centre (MSC)	3.0.2	SMG6, SMG1, SMG3			x				TSG-N	
12.14	Maintenance of Location Registers	3.0.2	SMG6, SMG3			x				TSG-N	
12.20	Base Station System (BSS) Management Information	4.2.0	SMG6, SMG3		x	x				TSG-N	

GSM	Name	Version	STC	STC WP	Scope		Working Group			Notes	LoI
					SMG	3GPP	WG1	WG2	WG3		
12.21	Network Management (NM) Procedures and Messages on the A-bis Interface	5.0.0	SMG6, SMG3		x	x				TSG-N	