Source: TSG-N(2, 3) chairmen
(Ian Park, Norbert Klehn, Harald Dettner)

Title: specifications in TSG-N
version 4 (23.04.1999)

Document for: Information

The following list contains all specifications transferred from SMG3 to TSG-N; it is updated according to the discussion in TSG-N2 (Issy-les-Moulineaux, 22 – 26.03.99).
... and according to information from the N3 chairman, version4 was endorsed by TSG_CN#3.
Specification numbers are still according GSM, the version column needs to be ignored. Versions according to SMG#28 output
Release '98 specs as V7.0.0 will become version 3.0.0 later on and the spec-number will be incremented by 20: for example. 09.02 becomes 29.002 (see td xxx for proposed new spec numbering conventions).

GSM-Num.	Title	Version	"leaving" ETSI STC	STC WP	N1	N2A	N2B	N3	ad-h. SS	Notes	
02.11	Service Accessibility		SMG1, SMG3, SMG2							S1 prime responsibility	
02.30	Man-Machine Interface (MMI) of the Mobile Station (MS)		SMG1, SMG3				-	-	-	S1 prime responsibility	
03.01	Network Functions		SMG3	WPA						Proposal: To be moved to S2	
03.02	Network Architecture		SMG3, SMG4							S2 prime responsibility	
03.03	Numbering, Addressing and Identification		SMG3 A / C		x	x	X			S2 second. Responsibility	
03.04	Signalling Requirements Relating to Routing of Calls to Mobile Subscribers		SPS, SMG3, SMG4	WPC			X			Dormant spec not inherited???, To be deleted -- MNP??	
03.05	Technical Performance Objectives		SMG3	WPC	x	x	X			Dormant spec Prop.: S1 Prime responsibility	
03.07	Restoration Procedures		SMG3	WPC			X				
03.08	Organization of Subscriber data		SMG3	WPC			X				
03.09	Handover Procedures		SMG3, SMG2	WPA	x		X			TSG-R at least 2.nd responsibility New specifications are needed in addition	
03.10	GSM PLMN Network Connection Types		SMG4, SMG1-3					X			

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					N1	N2A	N2B	N3	ad-h. SS		
03.11	Technical Realization of Supplementary Services		SMG3	WPB					X		
03.12	Location Registration Procedures		SMG3	WP-	X		x				
03.14	Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System		SMG3	WPA	x					Modify title??	
03.15	Technical Realization of Operator Determined Barring		SMG3	WPC			x				
03.16	Subscriber Data Management - Stage 2		SMG3	WPC, WPB			x		x	2nd resp. In SS-adhoc	
03.18	Basic call handling,Technical Realisation		SMG3	WPC		x				Prime resp. N2A	
03.20	Security-related Network Functions		SMG3, SMG2		X		x		X	S3 prime responsibility Nx groups 2nd resp.	
03.22	Functions Related to Mobile Station (MS) in Idle Mode		SMG3, SMG2		X					RAN specific parts to be removed. Spec to be split. WP-A / N1 to confirm	
03.26	Multi Band Operation - Stage 2		SMG2, SMG3		X					N1 2nd responsibility only new multipode spec for UMTS expected	
03.32	Universal Geographical Area Description (GAD)		SMG3	all	X	x	x			S2 2nd responsibility	
03.34	High Speed Circuit Switched Data (HSCSD) - Stage 2		SMG3	WPA	X						
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)		SMG4, (SMG3)							TSG T 1st.responsibility N1 2nd responsibility	
03.43	Support of Videotex		SMG4					X			
03.44	Support of Teletex in a GSM PLMN		SMG4					X			
03.45	Technical Realization of Facsimile Group 3 Service Transparent		SMG4					X		New 3G facsimile protocol is needed beside	
03.46	Technical Realization of Facsimile Group 3 Service non Transparent		SMG4					X		N3 to confirm	
03.53	Transcoder free operation (TFO)		SMG12, SMG3, SMG11							TSG-R or S1 1st. Responsibility open issue tbd.	
03.54	Shared Interworking Function stage 2		SMG4					X			
03.60	GPRS Stage 2		SMG12, SMG3							S2 prime responsibility Nx acts on "subcontracting basis"	
03.63	Packet Data on Signalling Channels - Stage 2		SMG3	WPA	x					Not inherited to UMTS?? To be decided	

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					N1	N2A	N2B	N3	ad-h. SS		
03.64	General Packet Radio Service (GPRS); Stage 2 overall description of radio Interface		SMG3	WPA						To be moved to TSG_RAN	
03.67	Enhanced Multiple Level Priority and Pre-emption - Stage 2 (ASCI)		SMG3	WPB					X		
03.68	Voice Group Call Service (VGCS) - Stage 2 (ASCI)		SMG3	WPA	x		x			N1 N2B to be confirmed	
03.69	Voice Broadcast Service (VBS) - Stage 2 (ASCI)		SMG3	WPA	x		x			N1/ N2B tbc	
03.70	Routing of Calls to/from Public Data Networks (PDN)		SMG4					X			
03.72	Call Deflection (CD) Supplementary Service; stage 2		SMG3 WPB	WPB					X		
03.78	CAMEL - Stage 2		SMG3	WPC		x					
03.79	Support of Optimal Routing phase 1 - Stage 2		SMG3	WPC		X					
03.81	Line Identification Supplementary Services - Stage 2		SMG3	WPB					X	Support of IP addressing may require changes	
03.82	Call Forwarding (CF) Supplementary Services - Stage 2		SMG3	WPB					X	Multicall requires changes	
03.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 2		SMG3	WPB					X	Multicall requires changes	
03.84	Multi Party (MPTY) Supplementary Services - Stage 2		SMG3	WPB					X	Multicall requires changes	
03.85	Closed User Group (CUG) Supplementary Services - Stage 2		SMG3	WPB					X		
03.86	Advice of Charge (AoC) Supplementary Services -Stage 2		SMG3	WPB					X		
03.87	User-to-user signalling (UUS), Stage 2		SMG3	WPB					X		
03.88	Call Barring (CB) Supplementary Services - Stage 2		SMG3	WPB					X		
03.90	Unstructured Supplementary Service Data (USSD)		SMG3	WPB					X		
03.91	Explicit Call Transfer (ECT) Supplementary Service - Stage 2		SMG3	WPB					x		
03.93	Call Completion to Busy Subscriber (CCBS) - Stage 2		SMG3 WPB	WPB					X	Multicall requires changes	
03.96	Name Identification Supplementary Services; Stage 2		T1P1	WPB					x	Support of IP addressing may require changes EURO CNAP R'99!	
03.97	Multiple Subscriber Profile (MSP) - Stage 2		SMG3	WPB					x	MSP2 based on CAMEL3	

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					N1	N2A	N2B	N3	ad-h. SS		
04.01	MS-BSS Interface - General Aspects and Principles		SMG3	WPA	X					Title induces to give the spec to TSG_RAN/SMG2 N1 to consider	
04.02	GSM PLMN Access Reference Configuration		SMG3, SMG2	WPA	x					TSG-R N1 2nd responsibility tbc	
04.03	MS-BSS Interface - Channel Structures and Access Capabilities		SMG3		X					TSG-R N1 2nd responsibility tbc	
04.04	Layer 1 - General Requirements		SMG3, SMG2		X					SMG2, TSG-R N1 2nd responsibility tbc	
04.06	MS-BSS Interface Data Link (DL) Layer Specification		SMG3		X					SMG2, TSG-R N1 2nd responsibility	
04.07	Mobile Radio Interface Signalling Layer 3 - General Aspects		SMG3	WPA	x					RAN specific parts to TSG-R. Spec to be split.	
04.08	Mobile Radio Interface - Layer 3 Specification		SMG3	WPA	x					RAN specific parts to TSG-R. Spec to be split	
04.10	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects		SMG3	WPB					x	To be confirmed	
04.11	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface		SMG3, SMG4	WPA	x					TSG_T 1st. Responsibility 2nd resp. in TSG_CN	
04.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface		SMG2, SMG4		x		x			S1, Tx 1st responsibility	
04.13	Performance Requirements on Mobile Radio Interface		SMG3, SMG2	WPA						To be moved to TSG-R	
04.21	Rate Adaptation on Mobile Station - Base Station System (MS-BSS) Interface		SMG4					x		Further discussion in N2 to move to TSG_T pending	
04.22	Radio Link Protocol (RLP) for Data and Telematic Services on the MS-BSS Interface and the BSS-MSC Interface		SMG4					X			
04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3		SMG3	WPA						Not inherited to UMTS	
04.64	LLC specification GPRS		SMG3	WPA	X?		x			LLC in UMTS unclear	
04.65	GPRS Subnetwork Dependent Convergence Protocol (SNDCP)		SMG3	WPA	x		x				
04.67	Enhanced Multi-Level Precedence and Pre-emption service		SMG3 WPD	WPB			(x)		X		
04.68	Group Call Control Protocol		SMG3	WPA	X						
04.69	Broadcast Call Control (BCC) protocol		SMG3	WPA	x						

					Working Group						
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04.72	Call Deflection (CD) Supplementary Service; Stage 3		SMG3	WPB					X		
04.80	Mobile Radio Interface Layer 3 - Supplementary Services Specification - Formats and Coding		SMG3	WPB			x		X	Multicall requires changes	
04.81	Line Identification Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X	Support of IP addressing may require changes. Should individual stage 3 (access) SS specs be the responsibility of CN-WG1?	
04.82	Call Forwarding (CF) Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X	Multicall requires changes	
04.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X	Multicall requires changes	
04.84	Multi Party (MPTY) Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X	Multicall requires changes	
04.85	Closed User Group (CUG) Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X		
04.86	Advice of Charge (AoC) Supplementary Services - Stage 3		SMG3	WPB				~~x~~	X		
04.87	User-to-user signalling (UUS), Stage 3		SMG3	WPB				~~X~~	X		
04.88	Call Barring (CB) Supplementary Services - Stage 3		SMG3	WPB				~~X~~	X		
04.90	Unstructured Supplementary Service Data (USSD)		SMG3	WPB				~~X~~	X		
04.91	Explicit Call Transfer (ECT) Supplementary Service - Stage 3		SMG3	WPB				~~x~~	X		
04.93	Call Completion to Busy Subscriber (CCBS) - Stage 3		SMG3 WPB	WPB				~~X~~	X	Multicall requires changes	
04.96	Name Identification Supplementary Services; Stage 3		T1P1	WPB				~~x~~	x		
07.01	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)		SMG4					X	~~x~~		
07.02	Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities		SMG4					X	~~x~~		
07.03	Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities		SMG4					x			
07.60	GPRS, MS supporting GPRS		SMG4					x			

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08.01	BSS-MSC Interface - General Aspects		SMG3		(x)					TSG_R 1st. Responsibility	
08.20	Rate Adaptation on the BSS-MSC Interface		SMG4					X			
08.54	BSC-BTS Interface - Layer 1 Structure of Physical Circuits		SMG3							TSG-R tbc	
08.61	Inband Control of Remote Transcoders and RateAdaptors (Half Rate)		SMG3, SMG2	2WPA, WPC						TSG-R tbc	
09.01	General Network Interworking Scenarios		SMG3		X		x	x		Content, value of spec?	
09.02	Mobile Application Part (MAP) Specification		SMG3, SPS2	WPC			x				
09.03	Signalling Requirements on Interworking between the ISDN or PSTN and the PLMN		SMG3, SMG4, SPS1	WPC						Remains in SMG3, not inherited to 3GPP	
09.04	Interworking between the PLMN and the CSPDN		SMG4					x			
09.05	Interworking between the PLMN and the PSPDN for Packet Assembly/Disassembly (PAD) Access		SMG4					X		Dedicated services to be removed	
09.06	Interworking between a PLMN and the ISDN or PSTN for Support of Packet Switched Data TransmissionServices		SMG4					x		Dedicated services to be removed	
09.07	General Requirements on Interworking between the PLMN and the ISDN or PSTN		SMG4, SMG3					X			
09.08	Application of the Base Station System Application Part(BSSAP) on the E-Interface		SMG2, SMG3	2WPA						Responsibility to be split with SMG2, TSG_RAN	
09.09	Detailed Signalling Interworking within the PLMN and with the PSTN/ISDN(REP)		SMG3	WPC						Dormant specification status/future tbd	
09.10	Information Element Mapping between Base Station Application Part (BSSAP) and the Mobile Application Part (MAP) Signalling		SMG3, SMG2	WPC	x		(x)			Responsibility to be clarified between SMG2/3 TSG_RAN and TSG_CN	
09.11	Signalling Interworking for Supplementary Services		SMG3	WPB			(x)	x			
09.12	Application of ISUP Version 2 for the ISDN PLMN (GSM) Signalling		SPS1, SMG3	WPB, WPC			(x)	x		Not inherited to 3GPP RSO (ETSI) specific	
09.13	Signalling Interworking Between ISDN Supplementary Services ASE and MAP Protocols		SMG3	WPB				x		Also not to be inherited to 3GPP??	
09.14	Application of ISUP Version 3 for the ISDN PLMN (GSM) Signalling		SPS1, SMG3	WPB, WPC				x		Not inherited to 3GPP RSO (ETSI) specific	
09.16	GPRS, Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs Interface Network Service Specification		SMG3	WPA	X					N1 to be confirmed	

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09.18	GPRS; Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs Interface Layer 3 Specification		SMG3	WPA	x					N1 to be confirmed	
09.60	GPRS Tunnelling Protocol (GTP) across the Gn and Gp Interface		SMG3	WPC			x			N2B to be confirmed	
09.61	Inter-working between the Public Land Mobile Network (PLMN) supporting GPRS and Packet Data Networks (PDN)		SMG4					X			
09.78	CAMEL Application Part (CAP) Specification		SMG3	WPC		x					
09.90	Interworking between Phase 1 Infrastructure and Phase 2 Mobile Stations (MS)		SMG2, SMG3	WPA	X		X			New specification needed to cover phase 2-to-UMTS	
09.94	Recommended infrastructure measures to overcome specific Phase 1 Mobile Station (MS) faults		SMG3	WPA			X			Hopefully never needed in UMTS	
10.00	Feature Descriptions		SMG12, SMG1-4, SMG6-11							Best linked to TSG_SA	
10.57	Mobile Station Execution Environment (MExE), Project scheduling and open issues		SMG4							Move to TSG_T; leave in SMG4	
10.60	General Packet Radio Service (GPRS); Project scheduling and open issues		SMG3							Leave in SMG	
10.68	ASCI; Project scheduling and open issues		SMG3							Leave in SMG	
11.10-1	Mobile Station (MS) Conformity Specifications		SMG7, PT48V, PT12, SMG2, SMG3							Test specifications unclear status in 3GPP	
11.10-2	Protocol Implementation Conformance Statement Proforma Specification		SMG7, PT48V, PT12, SMG2, SMG3								
11.10-3	Mobile Station (MS) Conformity Specifications, Layer 3 (L3) Abstract Test Suite (ATS)		SMG7, PT48V, PT12, SMG2, SMG3								
11.20	The GSM Base Station System (BSS) Equipment Specification		SMG8, SMG2, SMG3				-	-	-		
11.20-DCS	The GSM Base Station System (BSS) Equipment Specification		SMG8, SMG2, SMG3				-	-	-		
11.30	Mobile Services Switching Centre (REP)		SMG3, SMG1							????	
11.31	Home Location Register Specification (REP)		SMG3, SMG1							????	
11.32	Visited Location Register Specification (REP)		SMG3, SMG1							????	

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					N1	N2A	N2B	N3	ad-h. SS		
12.01	Common Aspects of Public Land Mobile Network (PLMN) Management		SMG6 SMG3							12.xx specifications future in TSG_CN needs further discussion (*). TSG-N (*)	
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration		SMG6, SMG1							TSG-N (*)	
12.03	Security Management		SMG6, SMG1, SMG3							TSG-N (*)	
12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)		SMG6, SMG1, SMG3							TSG-N (*)	
12.06	Network Configuration Management		SMG6, SMG3							TSG-N (*)	
12.07	Public Land Mobile Network (PLMN) Quality of Service		SMG6, SMG1, SMG3							TSG-N (*)	
12.08	Subscriber and Equipment Trace		SMG6, SMG3							TSG-N (*)	
12.10	Maintenance Provisions for Operational Integrity of Mobile Stations (MS)		SMG6, SMG1-3							TSG-N (*)	
12.13	Maintenance of the Mobile-services Switching Centre (MSC)		SMG6, SMG1, SMG3							TSG-N (*)	
12.14	Maintenance of Location Registers		SMG6, SMG3							TSG-N (*)	
12.20	Base Station System (BSS) Management Information		SMG6, SMG3							TSG-N (*)	
12.21	Network Management (NM) Procedures and Messages on the A-bis Interface		SMG6, SMG3							TSG-N (*)	