Source: Ian Doig 3GPP support team

Action: Information

Title: Proposal for 3G and SMG Specification Handling.

This document proposes general principles of 3G and ETSI SMG Specification Handling, *the fine detail of the management of the process would need to be developed.*

Rationale:

The 3GPP require a full set of 3rd Generation system specifications, based on the GSM Core Network and including many of the existing GSM Services. To realise the system, much of the GSM specifications need to be modified and incorporated into the 3rd Generation System Specifications. For these Specifications to evolve work must be carried out within 3GPP and under the approval responsibility of the TSGs.

Divergence of evolved GSM and 3rd Generation system specifications should be avoided.

Duplication of development work and the creation of almost identical sets of Specifications should be avoided.

In most circumstances, technical corrections to earlier GSM Releases will impact the later 3rd Generation versions of the specification, requiring CRs to all versions.

"Fine tuning" of previous GSM Releases will continue into 2000.

Proposal:

To avoid divergence of the 3G and GSM specifications, the responsibility for maintenance (technical corrections) of earlier GSM Releases and the future GSM evolution of those specifications affected should be the prime responsibility of one Technical Body.

To avoid duplication of work, further GSM evolution (GSM R99 onwards) should be incorporated into the 3rd Generation Core Network specifications as GSM specific parts if necessary. Note that the evolution of the GSM Radio access specifications, MS test specifications and BSS test specifications, are for the most part, unaffected by the 3rd Generation evolution.

The way forward:

- TSG WGs and corresponding SMG STCs co-locate meetings as much as possible.

- GSM Specifications modified in anyway for the 3rd Generation system are transferred to the 3GPP.

- The 3GPP produce a complete set of 3rd Generation "R99" specifications.

- Prime responsibility for maintenance of all previous releases of the Specifications is transferred to and carried out by 3GPP TSG.

- All relevant SMG e-mail lists are advised of all CRs to <R99 specifications prior to TSG approval (if possible and if meeting timing permits).

- SMG approve all modifications (TSG CRs) to earlier releases of the GSM specifications, which are ETSI deliverables, if necessary by correspondence, following the co-located TSG Plenary meetings.

- SMG reviews all modifications (TSG CRs) to R99 and later releases of the 3GPP specifications which impact on GSM, if necessary by correspondence, following approval at the co-located TSG

Plenary meetings, and provides comments if necessary back to the TSG meetings.

- All GSM R99 versions of specifications transferred to 3GPP becoming part of the 3rd Generation specifications R99, are deleted. The remaining GSM specifications will continue to be maintained and developed within SMG. The specifications transferred at TSG#3, proposed for future transfer and those which should remain in SMG only are listed in Annex A. The provisional list given in annex A should be further elaborated and reviewed by SMG STCs and TSG WGs in detail. In general, the specifications remaining in SMG include:

    - 05 series GSM Radio Aspects and specifications linked to or directly related the GSM Radio.

    - GSM Security Specifications (to be confirmed)

    - Non-AMR GSM 06 series (the AMR specifications may require specific GSM and 3G handling which will need to be further elaborated by SA3 and SMG11)

    - Most of GSM 11 series (to be confirmed)

- 3rd Generation specifications may contain GSM R99 Specific parts e.g. 29.002.

- The GSM specifications CR database(s) and GSM status lists are maintained.

- Current versions of all Releases <99 and the specifications only relevant for GSM are maintained on the SMG ftp site.

- ETSI SMG approves the 3rd Generation specifications that are released to the Partner Organisations (POs), which are appropriate and necessary to become ETSI deliverables.

- ETSI SMG decide the ETSI deliverable type (EN, TS etc) of the 3rd Generation specifications approved by SMG.

- ETSI SMG provide only a replacement cover, Foreword and History to the 3rd Generation specifications, leaving the 3GPP version number intact.

- SMG provide ETSI Public Enquiry approval procedure comments on 3rd Generation specifications to the appropriate 3GPP TSGs.

- These principles apply after SMG#29 (if SMG#29 and TSG#4 agree) and following GSM R98.

Annex A

Specifications and equivalent GSM versions transferred from SMG to the TSGs at TSG#3

Number	Ver at TSG#3	GSM No	GSM Ver	Title	planned V3
23.003	3.0.0	03.03	7.0.0	Numbering, Addressing and Identification	April 99
23.007	3.0.0	03.07	6.1.0	Restoration procedures	April 99
23.008	3.0.0	03.08	7.0.0	Organisation of subscriber data	April 99
23.009	3.0.0	03.09	6.0.0	Handover procedures	April 99
23.010	3.0.0	03.10	7.0.0	Public Land Mobile Network (PLMN) Connection Types *(withdraw from TSG list?)*	April 99
23.011	3.0.0	03.11	6.0.0	Technical Realization of Supplementary Services - General Aspects	April 99
23.012	3.0.0	03.12	6.0.0	Location registration procedures	April 99
23.014	3.0.0	03.14	7.0.0	Support of Dual Tone Multi Frequency (DTMF) signalling	April 99
23.015	3.0.0	03.15	6.0.0	Technical realisation of Operator Determined Barring (ODB)	April 99
23.016	3.0.0	03.16	7.0.0	Subscriber data management - Stage 2	April 99
23.018	3.0.0	03.18	7.0.0	Basic Call Handling - Technical realisation	April 99
23.022	3.0.0	03.22	7.0.0	Functions related to Mobile Station (MS) in idle mode	April 99
23.032	3.0.0	03.32	6.0.0	Universal Geographical Area Description (GAD)	April 99
23.034	3.0.0	03.34	6.1.0=5.2.0	High Speed Circuit Switched Data (HSCSD) - Stage 2	April 99
23.038	1.0.0	03.38	7.1.0	Alphabets & Language	Oct 99
23.039	1.0.0	03.39	6.0.0	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	Oct 99
23.040	1.0.0	03.40	7.1.0	Technical realisation of SMS Point to Point	Oct 99
23.042	1.0.0	03.42	7.1.0	Compression algorithm for SMS	Oct 99
23.043	3.0.0	03.43	6.0.0	Support of Videotext	April 99
23.044	3.0.0	03.44	6.0.0	Support of Teletext in a Public Land Mobile Network (PLMN)	April 99
23.045	3.0.0	03.45	6.0.0	Technical realisation of facsimile Group 3 service- transparent	April 99
23.046	3.0.0	03.46	6.0.0	Technical realisation of facsimile Group 3 service- non-transparent	April 99
23.054	3.0.0	03.54	6.0.0	Shared Interworking Functions - Stage 2	April 99
23.057	1.0.0	03.57	1.0.2	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Oct 99
23.067	3.0.0	03.67	6.0.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	April 99
23.068	3.0.0	03.68	6.1.0	Voice Group Call Service (VGCS) - Stage 2	April 99
23.069	3.0.0	03.69	6.1.0	Voice Broadcast service (VBS) - Stage 2	April 99
23.070	3.0.0	03.70	6.0.0	Routing of calls to/from Public Data Networks	April 99
23.072	3.0.0	03.72	7.0.0	Call Deflection Supplementary Service - Stage 2	April 99
23.078	3.0.0	03.78	6.3.0	CAMEL Stage 2	April 99
23.079	3.0.0	03.79	7.0.0	Support of optimal routing - Phase 1 - Stage 2	April 99
23.081	3.0.0	03.81	7.0.0	Line Identification Supplementary Services - Stage 2	April 99
23.082	3.0.0	03.82	8.0.0	Call Forwarding (CF) Supplementary Services - Stage 2	April 99
23.083	3.0.0	03.83	6.0.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	April 99
23.084	3.0.0	03.84	6.0.0	MultiParty (MPTY) Supplementary Service - Stage 2	April 99
23.085	3.0.0	03.85	6.0.0	Closed User Group (CUG) Supplementary Service - Stage 2	April 99
23.086	3.0.0	03.86	6.0.0	Advice of Charge (AoC) Supplementary Service - Stage 2	April 99
23.087	3.0.0	03.87	7.0.0	User-to-User Signalling (UUS) - Stage 2	April 99
23.088	3.0.0	03.88	6.0.0	Call Barring (CB) Supplementary Service - Stage 2	April 99
23.090	3.0.0	03.90	6.0.0	Unstructured Supplementary Service Data (USSD) - Stage 2	April 99
23.091	3.0.0	03.91	6.0.0	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	April 99
23.093	3.0.0	03.93	6.2.0	Call Completion to Busy Subscriber (CCBS) - Stage 2	April 99
23.096	3.0.0	03.96	6.0.1	Name Identification Supplementary Service - Stage 2	April 99
24.008	N/A	04.08	8.0.0	Mobile Radio Interface Layer 3 specification (CC/MM)	April 99

24.010	3.0.0	04.10	7.0.0	Mobile Radio Interface Layer 3 - Supplementary Services Specification – General Aspects	April 99
24.022	3.0.0	04.22	7.0.0	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	April 99
24.065	3.0.0	04.65	6.3.0	Mobile Station (MS) – Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	April 99
24.067	3.0.0	04.67	6.0.0	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	April 99
24.068	3.0.0	04.68	6.1.0=5.2.0	Group Call Control (GCC) Protocol	April 99
24.069	3.0.0	04.69	6.1.0=5.2.0	Broadcast Call Control (BCC) Protocol - Stage 3	April 99
24.072	3.0.0	04.72	7.0.0	Call Deflection Supplementary Service - Stage 3	April 99
24.080	3.0.0	04.80	7.0.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	April 99
24.081	3.0.0	04.81	6.0.0	Line Identification Supplementary Service - Stage 3	April 99
24.082	3.0.0	04.82	7.0.0	Call Forwarding Supplementary Service - Stage 3	April 99
24.083	3.0.0	04.83	6.0.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	April 99
24.084	3.0.0	04.84	6.0.0	MultiParty (MPTY) Supplementary Service - Stage 3	April 99
24.085	3.0.0	04.85	6.0.0	Closed User Group (CUG) Supplementary Service - Stage 3	April 99
24.086	3.0.0	04.86	6.0.0	Advice of Charge (AoC) Supplementary Service - Stage 3	April 99
24.087	3.0.0	04.87	7.0.0	User-to-User Signalling (UUS) - Stage 3	April 99
24.088	3.0.0	04.88	6.0.1	Call Barring (CB) Supplementary Service - Stage 3	April 99
24.090	3.0.0	04.90	6.0.0	Unstructured Supplementary Service Data (USSD) - Stage 3	April 99
24.091	3.0.0	04.91	6.0.0	Explicit Call Transfer (ECT) Supllementary Service - Stage 3	April 99
24.093	3.0.0	04.93	6.1.1	Call Completion to Busy Subscriber (CCBS) - Stage 3	April 99
24.096	3.0.0	04.96	6.0.1	Name Identification Supplementary Service - Stage 3	April 99
26.071	1.0.0	06.71	7.0.0	AMR speech Codec; General description	June 99
26.073	0.1.0	06.73	7.0.0	AMR speech Codec; C-source code	June 99
26.074	0.0.0	06.74	2.0.0	AMR speech Codec; Test sequences	June 99
26.090	1.0.0	06.90	7.0.0	AMR speech Codec; Transcoding Functions	June 99
26.091	1.0.0	06.91	7.0.0	AMR speech Codec; Error concealment of lost frames	June 99
26.092	1.0.0	06.92	7.0.0	AMR speech Codec; comfort noise	June 99
26.094	0.1.0	06.94	7.0.0	AMR Speech Codec Voice Activity Detector	June 99
27.001	3.0.0	07.01	7.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	April 99
27.002	3.0.0	07.02	7.0.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	April 99
27.003	3.0.0	07.03	6.0.0	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	April 99
27.005	1.0.0	07.05	7.0.0	Use of Data Terminal Equipment Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Oct 99
27.007	1.0.0	07.07	7.2.0	AT command set for 3G User Equipment (UE)	Oct 99
27.010	1.0.0	07.10	6.3.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	Oct 99
27.060	3.0.0	07.60	6.2.1	GPRS Mobile Stations supporting GPRS	April 99
28.020	3.0.0	08.20	7.0.0	Rate Adaptation on the BSS-MSC Interface	April 99
29.002	3.0.0	09.02	7.0.0	Mobile Application Part (MAP)	April 99
29.004	3.0.0	09.04	6.0.0	Interworking between the PLMN and the CSPDN	April 99
29.005	3.0.0	09.05	6.0.0	Interworking between the PLMN and the PSPDN	April 99
29.006	3.0.0	09.06	6.0.0	Interworking between a PLMN and the ISDN or PSTN for support of Packet Switched data transmission services	April 99
29.007	3.0.0	09.07	7.1.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	April 99

29.011	3.0.0	09.11	7.0.0	Signalling Interworking for Supplementary Services	April 99
29.016	3.0.0	09.16	7.0.0	Serving GPRS Support node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	April 99
29.018	3.0.0	09.18	6.3.0	Serving GPRS Support node SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	April 99
29.060	3.0.0	09.60	7.0.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	April 99
29.061	3.0.0	09.61	7.0.0	Interworking between the PLMN supporting GPRS and Packet Data Networks (PDN)	April 99

Specifications for possible transfer from SMG to the TSGs at TSG#4

Abbreviations:

Tbt   - to be transferred

-        - no SMG 1, SMG3/CN recommendation, to be confirmed by relevant groups.

Ntbt   - not to be transferred.

Possible 3G Number	GSM No	Ver at SMG# 28	Title	
22.002	02.02	7.0.0	Bearer Services Supported by a GSM PLMN	Tbt
22.004	02.04	8.0.0	General on Supplementary Services	Tbt
22.011	02.11	7.0.0	Service accessibility	Tbt
22.016	02.16	6.0.0	ME identity	Tbt
22.019	02.19	7.0.0	SIM API	-
22.022	02.22	6.0.0	Personalisation of the ME	Tbt
22.024	02.24	6.0.0	Advice of Charge	Tbt
22.030	02.30	8.0.0	Man-Machine Interface	Tbt
22.034	02.34	8.0.0	HSCSD1 (Stage2 moved to TSG CN)	Tbt??
22.041	02.41	6.0.0	Operator Determined Call Barring Stage 1	Tbt
22.042	02.42	6.0.0	Network Identity and Time Zone (NITZ), stage 1	Tbt
22.043	02.43	7.0.0	SoLSA Stage 1	-
22.048	02.48	6.0.0	Tool Kit Security Stage1	-
22.053	02.53	7.0.0	TFO	Tbt
22.057	02.57	7.0.0	Mobile Station Application Execution Environment (MExE); Stage 1	Tbt
22.060	02.60	8.0.0	GPRS Stage 1	Tbt
22.066	02.66	7.0.0	Support of Mobile Number Portability (MNP); Stage 1	Tbt
22.067	02.67	6.0.0	EMLPP Priority Set-up Service(PSUS); Stage 1(ASCI spec)	Tbt
22.068	02.68	7.0.0	Voice Group Call Service (VGCS); Stage 1 (Stage2 moved to TSG CN)	Tbt??
22.069	02.69	7.0.0	Voice Broadcast Service (VBS); Stage 1 (Stage2 moved to TSG CN)	Tbt??
22.071	02.71	0.0.0	Location Services (LCS); Stage 1 (T1P1)	Tbt
22.072	02.72	7.2.0	Call Deflection (CD); Stage 1	Tbt
22.078	02.78	6.2.0	CAMEL Ph2 Stage 1	Tbt
22.079	02.79	6.1.0	Support of Optimal Routing; Stage 1	Tbt
22.081	02.81	6.0.0	Line Identity SS; Stage 1	Tbt
22.082	02.82	8.0.0	Call Offering SS; Stage 1	Tbt
22.083	02.83	6.0.0	Call Completion SS; Stage 1	Tbt
22.084	02.84	6.0.0	MultiParty SS; Stage 1	Tbt
22.085	02.85	6.0.0	Closed User Group SS; Stage 1	Tbt
22.086	02.86	6.0.0	Advice of Charge SS; Stage 1	Tbt
22.087	02.87	7.1.0	User to User Signalling; Stage 1	Tbt
22.088	02.88	6.0.0	Call Barring SS; Stage 1	Tbt
22.090	02.90	8.0.0	USSD stage 1; Stage 1	Tbt
22.091	02.91	6.0.0	ECT stage 1; Stage 1	Tbt
22.093	02.93	6.0.1	CCBS stage 1; Stage 1	Tbt
22.094	02.94	0.0.0	Follow Me Stage 1	-
22.096	02.96	6.0.1	Calling Name Presentation (CNAP); Stage 1 (T1P1)	Tbt
22.097	02.97	7.0.0	Multiple Subscriber Profile (MSP); Stage 1	Tbt
23.019	03.19	1.0.0	SIM API (Java)	-
23.041	03.41	7.0.0	Tech realisation of SMSCB	-
23.048	03.48	7.0.0	Tool Kit Security Stage 2	-
23.053	03.53	7.0.0	TFO Stage 2	-
23.060	03.60	7.0.0	GPRS Stage 2 Note on responsibility split: Architecture with SMG12/TSG_S2.detailed stage 2 with TSG_CN1/2/3	Tbt

23.066	03.66	7.0.0	Mobile NP Stage 2	Tbt
23.071	03.71	0.0.0	Location Services LCS Stage 2	-
23.073	03.73	7.0.0	SoLSA Stage 2	Tbt
23.094	03.94	0.0.0	Follow Me Stage 2	Tbt
23.097	03.97	7.0.0	MSP stage2 Phase1	Tbt
24.007	04.07	7.0.0	Mob Radio int sig L3 Gen	Tbt
24.071	04.71	0.0.0	Location Services LCS Stage 3	Tbt
27.057	07.57	0.0.0	MExE Stage 3	-
28.062	08.62	7.0.0	TFO Stage 3	-
29.013	09.13	6.0.0	Sig I/W ASE and MAP	Tbt
29.061	09.61	7.0.0	GPRS PDN	Tbt
29.078	09.78	6.3.0	CAMEL Stage 3	Tbt
31.014	11.14	7.2.0	SIM app Tool kit	-
32.005	12.05	7.0.0	Event & call data	Tbt
32.015	12.15	7.1.0	GPRS charging	Tbt

Specifications which are unlikely to be transferred to the TSGs

Number	GSM Ver	Title	
01.31	7.0.1	Fraud Info Gat FIGS Stg 0	-
01.33	7.0.0	Lawful Interception requirements	-
01.56	1.0.0	CTS Sec algo requirements	-
02.01	8.0.0	Telecomm Services	Ntbt
02.03	6.0.0	Tele Services in GSM	Ntbt
02.06	6.1.0	Types of MS	Ntbt
02.07	7.0.0	MS features	Ntbt
02.09	6.0.0	Security aspects	-
02.17	7.1.0	SIM characteristics	Ntbt
02.31	7.1.0	Fraud Info Gathering FIGS Stage 1	-
02.32	7.1.0	IST Stage 1	-
02.33	7.2.0	Lawful intercept Stage 1	-
02.40	7.0.0	Call Progress indicators	Ntbt
02.56	7.1.0	CTS Stage 1	Ntbt
02.63	6.0.0	PDS Stage 1	Ntbt
02.95	6.0.0	Support of Private Numbering Plan (SPNP); Stage 1 (Note: not to be maintained after rel 98).	NTbt??
03.04	6.0.0	Signalling requirements of calls to MS (to be withdrawn in general for Rel'98/97/96)	Ntbt
03.05	6.0.0	Tech performance objectives	-
03.20	7.0.0	Security Net Functions	-
03.26	6.0.0	Multiband by 1 operator	-
03.30	6.0.1	Radio Net Planning Aspects	-
03.31	7.0.0	Fraud Info Gathering FIGS Stage 2	-
03.33	7.0.0	Lawful intercept Stage 2	-
03.35	7.0.0	Immediate Service Term (IST) Stage 2	-
03.52	7.0.0	CTS Stage 2 Lower Layer	-
03.56	7.0.0	CTS Stage 2	-
03.58	6.0.1	Handsfree MS test	-
03.63	6.0.0	PDS Stage 2	-
04.01	6.0.0	MS-BSS inter Gen & prcpl	-
04.03	6.0.0	MS-BSS Interface Ch Acc cap	-
04.04	6.0.0	Layer 1 Gen requirements	-
04.05	6.0.0	DL Layer Gen aspects	-
04.06	6.0.0	MS-BSS DL Layer	-
04.11	6.0.1	Mob Radio Int SMS PtP	-
04.12	6.0.0	Mob Radio Int SMSCB	-
04.13	6.0.0	Performance requirements on the Mobile radio interface	-
04.14	6.0.0	Individual MS Test Requirements	-
04.21	7.0.1	Rate Adpt MS-BSS (category as 08.20 decision with CN3)	??
04.33	0.0.0	Lawful intercept Stage 3	-
04.56	7.0.0	CTS Radio int Layer 3	-
04.57	7.0.0	CTS supervising system Layer 3	-
04.63	6.0.0	PDS Stage 3	Ntbt
05.01	7.0.0	Physical layer on radio	-
05.02	7.0.0	Multiplex & Multiple Access	-
05.03	7.0.1	Channel Coding	-
05.05	7.0.0	Radio Tx and RX	-
05.08	7.0.0	Radio subsystem link Cntrl	-
05.09	7.0.0	Link adaptation	-
05.10	7.0.0	Radio subsystem sync	-
05.50	7.0.0	Background RF	-
05.56	7.0.1	CTS-FP Radio Sub system	-
06.01	7.0.0	FR speech proc descript	-
06.02	7.0.0	HR speech proc descript	-
06.06	6.0.0	HR C-source code	-
06.07	6.0.0	HR Test sequences	-

06.08	6.0.0	HR performance characteristics	-
06.10	7.0.0	FR speech transcoding	-
06.11	6.0.0	FR substitution & muting	-
06.12	6.0.0	FR comfort noise	-
06.20	6.0.0	HR speech transcoding	-
06.21	6.0.0	HR substitution & muting	-
06.22	6.0.0	HR comfort noise	-
06.31	6.0.0	FR DTX	-
06.32	6.0.0	Voice Activity Detector	-
06.41	6.0.0	HR DTX	-
06.42	6.0.0	HR Voice Activity Detector	-
06.51	7.0.0	EFR speech proc description	-
06.53	6.0.0	EFR C-source code	-
06.54	6.0.0	EFR Test sequences	-
06.55	6.0.0	EFR performance characteristics	-
06.60	7.0.0	EFR speech transcoding	-
06.61	6.0.0	EFR substitute & muting	-
06.62	6.0.0	EFR comfort noise	-
06.81	6.0.0	EFR DTX	-
06.82	6.0.0	EFR Voice Activity Detector	-
06.85	6.0.0	FR/HR/EFR speech interoperability	-
08.01	6.0.0	BSS-MSC Interface General	-
08.02	6.0.0	BSS-MSC Interface Principles	-
08.04	7.0.0	BSS-MSC Interface L1	-
08.06	7.0.0	Sig trans BSS-MSC Inter	-
08.08	7.1.0	MSC-BSS Interface L3	-
08.14	7.0.0	GPRS BSSGP L1	-
08.16	7.0.0	GPRS BSSGP L2	-
08.18	6.3.0	GPRS BSSGP L3	-
08.51	6.0.0	BSC-BTS Interface General	-
08.52	6.0.0	BSC-BTS Interface Principles	-
08.54	6.0.0	BSC-BTS Interface L1	-
08.56	6.0.0	BSC-BTS Interface L2	-
08.58	7.0.0	BSC-BTS Interface L3	-
08.60	6.0.0	Inbnd cntl Tcoder & RA	-
08.61	6.0.0	HR Ibd cntl Tcoder & RA	-
09.01	6.0.0	Gen Network IW scenarios	-
09.08	6.0.0	BSSAP on E-Interface (potentially depending on HO analysis; ffs)	??
09.12	4.2.1	ISUP v2 for ISDN-PLMN	Ntbt
09.14	4.3.0	ISUP v3 for ISDN-PLMN	Ntbt
09.90	6.0.0	IW Ph1 infrastructure & Ph2 MS	-
09.91	6.0.0	IW SIM/ME Int Ph1 & Ph2	-
09.94	6.0.0	Phase 1 MS faults	-
11.10-1	6.0.0	MS Conformance (GPRS)	-
11.10-2	4.15.0	MS Conformance PICS	-
11.10-3	5.0.0	MS Conformance TTCN	-
11.11	7.2.0	SIM ME interface	Ntbt
11.12	5.0.0	3V SIM-ME	Ntbt
11.17	1.0.0	SIM Conformance test specification	-
11.18	1.0.0	1.8V SIM-ME	Ntbt
11.19	1.0.0	CTS SIM Fixed Part	-
11.21	6.0.0	BSS Radio aspects	-
11.23	4.6.1	BTS Sig Aspects	-
11.26	5.2.1	GSM Repeaters	-
12.00	4.6.0	Objectives & structure of NM	-
12.01	4.4.1	NM aspects GSM/DCS 1800	-
12.02	6.0.0	Sub, ME & ser data admin	-
12.03	7.0.0	Security management	-
12.04	4.3.1	Performance data measurements	-
12.08	6.0.0	Sub and equip trace	-

12.11	6.2.0	Fault management of BSS	
12.20	4.2.1	BSS Management Info	-
12.21	6.0.0	NM proc & A-bis Interface	-
12.22	4.1.4	IW of NM proc & BSC	-
12.30	4.2.0	GDMO registration	-