Technical Specification Group Services and System Aspects
Meetings #8, Düsseldorf, Germany, 26-28 June 2000

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Source: **MCC**
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Title: **New homes for old specs**

Document for: **Discussion**

Agenda Item: **8.2**

It is anticipated that, in July 2000, the 3GPP Organizational Partners will agree to the formal transfer of the GSM specifications from ETSI TC SMG to 3GPP. It will then be necessary to allocate an appropriate responsible TSG and WG for each transferred spec. In fact, a few specifications will be retained by ETSI:

- Candidate Harmonized Standards for European Union regulatory use (13.-series) will go to ETSI TC MSG;
- Generic IC-card specs (mainly some 11.-series) to go to ETSI EP "new-SMG9".

The present contribution lists all GSM-only specifications. In mapping the SMG groups to 3GPP groups, due note was taken of the report of the ad hoc group which investigated the migration of GSM specifications to 3GPP; the report is annexed to the present document. In many cases, the transfer is obvious, in particular where effective responsibility has already been adopted for 3G use.

The criterion for eligibility for transfer to 3GPP is simply that the spec exists in one release or another and has not been formally withdrawn. It is assumed that all specs pertaining to Release 1999 are eligible for an afterlife in Release 2000.

In the list which follows:

- G signifies the new TSG GERAN expected to be formed by decision of the Organizational Partners at their July meeting.
- G-"SMG7" signifies the GERAN working group which is expected to be established to continue the work of SMG7.

TSG SA is asked to review the list of specifications, to verify that the proposed new WG is appropriate, and to issue liaisons to the other TSGs asking them to adopt the identified specifications.

For reference, the currently identified rapporteur is also mentioned. In some cases, it may be necessary to nominate a new rapporteur.

Number	Title	current WG	proposed WG	rapporteur	txfer to 3GPP notes
01.00	Working Procedures for SMG	SMG	-	Bergmann, Ansgar	Replace by 21.900
01.01	GSM R99 Specification set	SMG	G	Courau, François	
01.02	General Description of a GSM Public Land Mobile Network (PLMN)	SMG01 / SMG02 / SMG03	S1 / G / N	Jörgenen, N	
01.04	Abbreviations and Acronyms	SMG	G	Clayton, Michael	Merge with 21.905
01.31	Fraud Information Gathering System (FIGS); Service requirements - Stage 0	SMG10	S3	Wright, Tim	
01.33	Lawful Interception requirements for GSM	SMG10	S3	Miles, David F	
01.48	ISDN-based DECT/GSM interworking; Feasibility study	SMG01	S1	Graetz, Ingeborg	
01.56	GSM Cordless Telephony System (CTS) (Phase 1); CTS Authentication and Key Generation Algorithms Requirements	SMG01	S1	Messiet, Samira	
01.60	GPRS requirements	SMG01	S1	(vacant, tba)	
01.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	SMG10	S3	Vanne, G	
02.01	Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network(PLMN)	S1 / (SMG01)	S1	Kokkola, Tommi	
02.02	Bearer Services (BS) Supported by a GSM Public Land Mobile Network (PLMN)	S1 / SMG01	S1	Richards, Denise	
02.03	Teleservices Supported by a GSM Public Land Mobile Network (PLMN)	S1 / (SMG01)	S1	Conrad, Alan	
02.04	General on Supplementary Services	S1 / SMG01	S1	Richards, Denise	
02.06	Types of Mobile Stations (MS)	SMG01	S1	Jeal, David	
02.07	Mobile Station (MS) Features	SMG01	S1	Jeal, David	
02.09	Security Aspects	SMG10 / SMG01 / SMG03	S3 / S1 / N	Gilbert, Henri	
02.11	Service Accessibility	S1 / SMG01	S1	Chichmanian, Anouch	
02.16	International Mobile Station Equipment Identities (IMEI)	S1 / SMG01	S1	Chichmanian, Anouch	
02.17	Subscriber Identity Modules, Functional Characteristics	SMG09 / SMG01	"newSMG 9" / S1	Green, Mark	
02.19	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	T3	T3	Dietrich, Christian	
02.22	Stage 1 for Personalisation of GSM ME	S1 / SMG01	S1	Durand, Romain	
02.24	Description of Charge Advice Information (CAI)	S1 / SMG01	S1	Dwyer, Paul	
02.30	Man-machine Interface (MMI) of the Mobile Station (MS)	S1 / SMG01	S1	Jeal, David	
02.31	Fraud Information Gathering System (FIGS) Service description - Stage 1	SMG10	S3	Wright, Tim	
02.32	Immediate Service Termination (IST); Service description - Stage 1	SMG10	S3	Wright, Tim	
02.33	Lawful Interception - Stage 1	SMG10	S3	Miles, David F	
02.34	High Speed Circuit Switched Data (HSCSD) - Stage 1	S1 / SMG01	S1	Muhonen, Ahti	
02.38	SIM application toolkit (SAT); Stage 1	S1 / SMG09	S1 / "newSMG 9"	(vacant, tba)	
02.40	Procedures for Call Progress Indications	SMG01 / SMG03	S1 / N	Dwyer, Paul	
02.41	Operator Determined Barring	S1 / SMG01	S1	Darmanin, S	
02.42	Network Identity and Timezone (NITZ); Service Description, Stage 1	S1 / SMG01	S1	Giles, Les	
02.43	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1 / SMG01	S1	Kokkola, Tommi	

02.48	Security mechanisms for the SIM Application Toolkit; Stage 1	T3 / SMG10	T3 / S3	Barnes, Nigel	
02.53	Tandem Free Operation (TFO); Service description; Stage 1	S4 / SMG11	S4	Navarro, Wiliam	
02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	SMG01	S1	Galligo, Michel	
02.57	Mobile Station Application Execution Environment (MExE) Service description Stage 1	S1 / SMG01 / T2 / SMG04	S1	(vacant, tba)	
02.60	General Packet Radio Service Stage 1 Description	S1 / SMG01	S1	Conrad, Alan	
02.63	Packet Data on Signalling channels Service (PDS) - Stage 1	SMG01	S1	Conrad, Alan	
02.66	Support of Mobile Number Portability (MNP); Service description; Stage 1	S1 / SMG01	S1	Levelt, Willem	
02.67	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP) - Stage 1	S1 / SMG01	S1	Giles, Les	
02.68	Voice Group Call Service (VGCS) - Stage 1	S1 / SMG01	S1	Giles, Les	
02.69	Voice Broadcast Service (VBS) - Stage 1	S1 / SMG01	S1	Giles, Les	
02.71	Location Services (LCS) - Stage 1	S1 / SMG01	S1	Doshi, Sonia	
02.72	Call Deflection Service description, Stage 1	S1 / SMG01	S1	Habermann, Steffen	
02.76	Noise Suppression for the AMR	SMG11	S4	(vacant, tba)	
02.78	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)	S1 / SMG01	S1	Kleier, Stephan	
02.79	Support of Optimal Routeing (SOR); Service definition (Stage 1)	S1 / SMG01	S1	Frey, Sophie	
02.81	Line Identification Supplementary Services - Stage 1	S1 / SMG01	S1	Blomstrand, Ola	
02.82	Call Forwarding (CF) Supplementary Services - Stage 1	S1 / SMG01	S1	Chichmanian, Anouch	
02.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 1	S1 / SMG01	S1	Jörgenen, N	
02.84	MultiParty (MPTY) Supplementary Services - Stage 1	S1 / SMG01	S1	Postmann, Erwin	
02.85	Closed User Group (CUG) Supplementary Services - Stage 1	S1 / SMG01	S1	Blomstrand, Ola	
02.86	Advice of Charge (AoC) Supplementary Services - Stage 1	S1 / SMG01	S1	Crawford, Ian	
02.87	User-to-User Signalling (UUS) Service Description, Stage 1	S1 / SMG01	S1	Conrad, Alan	
02.88	Call Barring (CB) Supplementary Services - Stage 1	S1 / SMG01	S1	Conrad, Alan	
02.90	Stage 1 Decision of Unstructured Supplementary Service Data (USSD)	S1 / SMG01	S1	Slotte, Sverre	
02.91	Explicit Call Transfer (ECT)	S1 / SMG01	S1	Postmann, Erwin	
02.93	Completion of Calls to Busy Subcriber (CCBS) Service Description - Stage 1	S1 / SMG01	S1	Jörgenen, N	
02.94	Follow Me Service description - Stage 1	S1 / SMG01	S1	(vacant, tba)	
02.95	Digital cellular telecommunications system (Phase 2+); Support of Private Numbering Plan (SPNP); Service description, Stage 1	S1 / SMG01	S1	(vacant, tba)	
02.96	Name Identification Supplementary Services; Stage 1	S1 / T1P1	S1	Doshi, Sonia	
02.97	Multile Subscriber Profile (MSP) Service description, Stage 1	S1 / SMG01	S1	Power, L	
03.01	Network Functions	SA2 / SMG03	S2 / N	Gaasvik, Per-Ola	
03.02	Network Architecture	S2 / SMG12 / SMG03 / SMG04	S2 / N / T2	Sultan, Alain	
03.03	Numbering, Addressing and Identification	N4 / SMG03 ? / SMG04	N4 / T2	Gaasvik, Per-Ola	
03.04	Signalling Requirements Relating to Routing of	N4 /	N4 /	(vacant, tba)	

	Calls to Mobile Subscribers	SPAN / SMG03 ? / SMG04	SPAN / T2		
03.05	Technical Performance Objectives	SMG03	N	(vacant, tba)	
03.07	Restoration Procedures	N4 / SMG03 ?	N4	Park, Ian	
03.08	Organization of Subscriber Data	N4 / SMG03 ?	N4	Bauer, Rolf	
03.09	Handover Procedures	N1 / SMG03 A	N1	Farhoumand, Rouzbeh	
03.10	GSM Public Land Mobile Network (PLMN) Connection Types	N3 / SMG03 D	N3	Braun, Achim	
03.11	Technical Realization of Supplementary Services - General Aspects	N4 / SMG03 ?	N4	Habermann, Steffen	
03.12	Location Registration Procedures	N4 / SMG03 ?	N4	Gaasvik, Per-Ola	
03.13	Discontinuous Reception (DRX) in the GSM System	SMG02	G	(vacant, tba)	
03.14	Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System	N1 / SMG03 A	N1	(vacant, tba)	
03.15	Technical Realization of Operator Determined Barring	N4 / SMG03 ?	N4	Park, Ian	
03.16	Subscriber Data Management	N4 / SMG03 ?	N4	Dettner, Harald	
03.18	Basic Call Handling	N4 / SMG03 ?	N4	Park, Ian	
03.19	GSM API for SIM toolkit stage 2	T3	T3	Dietrich, Christian	
03.20	Security-related Network Functions	SMG10 / SMG03 / SMG02	S3 / N / G	Gilbert, Henri	
03.22	Functions Related to Mobile Station (MS) in Idle Mode	SMG02 / N1 / SMG03 A	G / N1	Howell, Andrew	
03.26	Multiband operation of GSM/DCS 1800 by a single operator	SMG02 / SMG03	G / N	(vacant, tba)	
03.30	Radio Network Planning Aspects	SMG02	G	Stevens, Peter / Peter John	
03.31	Fraud Information Gathering System (FIGS); Service description; Stage 2	SMG10	S3	Wright, Tim	
03.32	Universal Geographical Area Description (GAD)	S2	S2	(vacant, tba)	
03.33	Lawful Interception - stage 2	SMG10	S3	Miles, David F	
03.34	High Speed Circuit Switched Data (HSCSD); Stage 2	N1 / SMG03 A	N1	Muhonen, Ahti	
03.35	Immediate Service Termination (IST); Stage 2	SMG10	S3	Wright, Tim	
03.38	Alphabets and Language Specific Information for GSM	T2 / SMG04	T2	Harris, Ian	
03.39	Digital Cellular Telecommunications System (Phase 2) Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	T2 / SMG04	T2	Harris, Ian	
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	T2 / SMG04	T2	Harris, Ian	
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	T2 / SMG04	T2	Harris, Ian	
03.42	SMS Compression	T2 / SMG04	T2	Harris, Ian	
03.43	Support of Videotex	SMG04	T2	Di Tria, Paolo	
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	SMG04	T2	(vacant, tba)(vacant, tba)	
03.45	Technical Realization of Facsimile Group 3 Service	N3 /	N3	(vacant, tba)	

	- transparent	SMG03 D			
03.46	Technical Realization of Facsimile Group 3 Service - non transparent	N3 / SMG03 D	N3	(vacant, tba)	
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	SMG04	T2	(vacant, tba)	
03.48	Security Mechanisms for SIM Toolkit Application - Stage 2	T3	T3	Barnes, Nigel	
03.49	Example Protocol Stacs for Interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	SMG04	T2	Meredith, Andrew	
03.50	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	SMG11	S4	Usai, Paolino	
03.52	Lower layers of the GSM Cordless Telephony System (CTS) radio interface - Stage 2	SMG02	G	Desblancs, Philippe	
03.53	Tandem Free Operation (TFO); Service description; Stage 2	SMG11 / SMG03 / SMG12	S4 / N / S2	Fauconnier, Denis	
03.54	Description for the use of a Shared Inter Working Function (SIWF) in a GSM PLMN; Stage 2	N3 / SMG03 D	N3	Rostö, Tommy	
03.56	GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2	SMG12	S2	Roberts, Martin / Michael	
03.57	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	T2 / SMG04	T2	Cataldo, Marc	
03.58	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	SMG11	S4	Monfort, Jean-Yves	
03.59	Location services (LCS) GERAN; Stage 2	SMG02	G	Livingston, Margaret	
03.60	General Packet Radio Service (GPRS) Service description; Stage 2	S2 / SMG12	S2	Naper, Hans-Petter	
03.63	Packet Data on Signalling channels service (PDS) Service description, Stage 21	N1 / SMG03 A	N1	Jacobsohn, Dieter	
03.64	Overall description of the GPRS radio interface; Stage 2	SMG02	G	(vacant, tba)	
03.66	Support of GSM Mobile Number Portability (MNP); Stage 2	N4 / SMG03 ?	N4	Lopez, Luis Soria	
03.67	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4 / SMG03 ?	N4	Münning, Dirk	
03.68	Voice Group Call Service (VGCS); Stage 2	N1 / SMG03 A	N1	Münning, Dirk	
03.69	Voice Broadcast service (VBS); Stage 2	N1 / SMG03 A	N1	Münning, Dirk	
03.70	Routeing of Calls to/from Public Data Networks (PDN)	N3 / SMG03 D	N3	(vacant, tba)	
03.71	Location services (LCS); Stage 2	S2 / SMG12	S2	Brook, Richard	
03.72	Call Deflection stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
03.73	Support of Localised Service Area (SoLSA); Stage 2	S2 / SMG12	S2	(vacant, tba)	
03.78	CAMEL Phase 2; Stage 2	N2	N2	Crespi, Noel	
03.79	Support of Optimal Routing phase 1; Stage 2	N4 / SMG03 ?	N4	Park, Ian	
03.81	Line Identification Supplementary Services; Stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
03.82	Call Forwarding (CF) Supplementary Services; Stage 2	N4 / SMG03 ?	N4	Poths, Annette	
03.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 2	N4 / SMG03 ?	N4	Sharp, Iain	
03.84	Multi Party (MPTY) Supplementary Services; Stage	N4 /	N4	Habermann, Steffen	

	2	SMG03 ?			
03.85	Closed user Group (CUG) Supplementary Services; Stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
03.86	Advice of Charge (AoC) Supplementary Services; Stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
03.87	User-to-user signalling (UUS); Stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
03.88	Technical Realization of Call Restriction Supplementary Services	N4 / SMG03 ?	N4	Hamel, Eric	
03.90	Unstructured Supplementary Service Data (USSD)	N4 / SMG03 ?	N4	Chotai, Sunil	
03.91	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4 / SMG03 ?	N4	Dzuban, Stanislav	
03.93	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	N4 / SMG03 ?	N4	Hämäläinen, Pekka	
03.96	Name Identification Supplementary Services; Stage 2	N4 / SMG03 ?	N4	Doshi, Sonia	
03.97	Multiple subscriber Profile (MSP); Stage 2	N4 / SMG03 ?	N4	(vacant, tba)	
04.01	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	N1 / SMG03 A	N1	Aveline, Sophie	
04.02	GSM Public Land Mobile Network (PLMN) Access Reference Configuration	N1 / SMG03 A	N1	Doshi, Sonia	
04.03	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	SMG02	G	Thomas, Rémi	
04.04	Layer 1 - General Requirements	SMG02	G	Thomas, Rémi	
04.05	Data Link (DL) Layer General Aspects	SMG02	G	(vacant, tba)	
04.06	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	SMG02	G	(vacant, tba)	
04.07	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1 / SMG03 A	N1	(vacant, tba)	
04.08	Mobile Radio Interface - Layer 3 Specification	N1 / SMG03 A / SMG02	N1 / G	Howell, Andrew	
04.10	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	N4 / SMG03 ?	N4	Sharp, Iain	
04.11	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1 / SMG03 A	N1	Nobuyuki, Uda	
04.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	SMG02 / SMG04	G / T2	Pudney, Chris	
04.13	Performance Requirements on Mobile Radio Interface	N1 / SMG03 A	N1	Mills, Duncan	
04.14	Individual equipment type requirements and interworking; Special conformance testing functions	SMG02	G	Howell, Andrew	
04.18	Mobile Radio Interface - Layer 3 Specification RR part	SMG02	G	Howell, Andrew	
04.21	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	N3 / SMG03 D	N3	Räsänen, Juha	
04.22	Radio Link Protocol for Data and Telematic Services on the MS-BSS Interface	N3 / SMG03 D	N3	Klehn, Norbert	
04.30	Location Services LCS Stage 3 SS (MO-LR)	SMG02 a	G	Doshi, Sonia	
04.31	Location Services LCS RR LCS Protocol	SMG02 a	G	Doshi, Sonia	

04.35	Location Services LCS Stage 3 E-OTD Enhanced Observed	SMG02 a	G	Doshi, Sonia	
04.56	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	N1 / SMG03 A	N1	Hupperich, Peter	
04.57	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	N1 / SMG03 A	N1	Hupperich, Peter	
04.60	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	SMG02	G	(vacant, tba)	
04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	N1 / SMG03 A	N1	Jacobsohn, Dieter	
04.64	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	N1 / SMG03 A	N1	Salkintzis, Apostolis	
04.65	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	N1 / SMG03 A	N1	Salkintzis, Apostolis	
04.67	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	N4 / SMG03 ?	N4	Münning, Dirk	
04.68	Group Call Control (GCC) Protocol	N1 / SMG03 A	N1	(vacant, tba)	
04.69	Broadcast Call Control (BCC) protocol	N1 / SMG03 A	N1	(vacant, tba)	
04.71	Location services (LCS) stage 3	SMG02 A	G	Doshi, Sonia	
04.72	Call Deflection (CD) Supplementary Service; Stage 3	N4 / SMG03 ?	N4	Habermann, Steffen	
04.80	Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding	N4 / SMG03 ?	N4	(vacant, tba)	
04.81	Line Identification Supplementary Services - Stage 3	N4 / SMG03 ?	N4	(vacant, tba)	
04.82	Call Forwarding (CF) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	Poths, Annette	
04.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	Sharp, Iain	
04.84	Multi Party (MPTY) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	Habermann, Steffen	
04.85	Closed User Group (CUG) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	(vacant, tba)	
04.86	Advice of Charge (AoC) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	(vacant, tba)	
04.87	User-to-User Signalling (UUS) Supplementary Service Stage 3	N4 / SMG03 ?	N4	(vacant, tba)	
04.88	Call Barring (CB) Supplementary Services - Stage 3	N4 / SMG03 ?	N4	Hamel, Eric	
04.90	Unstructured Supplementary Service Data (USSD)	N4 / SMG03 ?	N4	Lippelt, H-P	
04.91	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	N4 / SMG03 ?	N4	Dzuban, Stanislav	
04.93	Completion of Calls to Busy Subscriber (CCBS); Stage 3	N4 / SMG03 ?	N4	Hämäläinen, Pekka	
04.96	Name Identification Supplementary Services; Stage 3	N4 / SMG03 ?	N4	Doshi, Sonia	
05.01	Physical Layer on the Radio Path (General	SMG02	G	Andersen, Neils Peter	

	Description)			Skov	
05.02	Multiplexing and Multiple Access on the Radio Path	SMG02	G	(vacant, tba)	
05.03	Channel Coding	SMG02	G	(vacant, tba)	
05.04	Modulation	SMG02	G	Reiner, M	
05.05	Radio Transmission and Reception	SMG02	G	Charles, Jean Pierre	
05.08	Radio Subsystem Link Control	SMG02	G	while	
05.09	Link Adaptation	SMG02	G	(vacant, tba)	
05.10	Radio Subsystem Synchronization	SMG02	G	Benn, Howard	
05.22	Radio link management in hierarchical networks	SMG02	G	(vacant, tba)	
05.50	Background for RF Requirements	SMG02	G	(vacant, tba)	
05.56	CTS-FP Radio Sub-system	SMG02	G	(vacant, tba)	
06.01	Full Rate Speech Processing Functions	SMG11	S4	Usai, Paolino	
06.02	Half Rate Speech Processing Functions	SMG11	S4	Aftelak, Steve	
06.06	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	SMG11	S4	Aftelak, Steve	
06.07	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	SMG11	S4	Aftelak, Steve	
06.08	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	SMG11	S4	Salem, Tarek	
06.10	Full Rate Speech Transcoding	SMG11	S4	Lorenz, Dietmar	
06.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels	SMG11	S4	Navarro, Wiliam	
06.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels	SMG11	S4	Sereno, Daniele	
06.20	Half Rate Speech Transcoding	SMG11	S4	Aftelak, Steve	
06.21	Substitution and Muting of Lost Frames for Half Rate Traffic Speech Traffic Channels	SMG11	S4	Aftelak, Steve	
06.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels	SMG11	S4	Aftelak, Steve	
06.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	SMG11	S4	(vacant, tba)	
06.32	Voice Activity Detection (VAD)	SMG11	S4	Barrett, Paul	
06.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	SMG11	S4	(vacant, tba)	
06.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	SMG11	S4	Barrett, Paul	
06.51	GSM Enhanced full rate speech processing functions: General description	SMG11	S4	Jarvinen, Kari	
06.53	ANSI-C code for the GSM Enhanced full rate speech codec	SMG11	S4	Jarvinen, Kari	
06.54	Test sequences for the GSM Enhanced Full Rate (EFR)	SMG11	S4	Jarvinen, Kari	
06.55	Performance characterisation of the GSM EFR Speech Codec	SMG11	S4	Salem, Tarek	
06.60	Enhanced full rate speech transcoding	SMG11	S4	Jarvinen, Kari	
06.61	Substitution and muting of lost frames for encanced full rate speech traffic channels	SMG11	S4	Jarvinen, Kari	
06.62	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	SMG11	S4	Jarvinen, Kari	
06.71	Adaptive Multi-Rate speech processing functions; General description	S4 / SMG11	S4	(vacant, tba)	
06.73	ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec	S4 / SMG11	S4	(vacant, tba)	
06.74	Test sequences for the GSM Adaptive Multi Rate (AMR) speech codec	S4 / SMG11	S4	(vacant, tba)	
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TBR32	Attachment Requirements for DCS Terminal Equipment (Telephony)	SMG07	MSG	(vacant, tba)	Eventually to be withdrawn.

Tokyo, Japan 30 March 2000

REPORT TO THE 3GPP ORGANIZATIONAL PARTNERS

REGARDING

MOVEMENT OF GSM RADIO ACTIVITIES INTO 3GPP

PREPARED BY

3GPP AD HOC GROUP ON

MOVEMENT OF GSM RADIO ACTIVITIES INTO 3GPP

30 March 2000

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Executive Summary

On January 19, 2000 the 3GPP Organizational Partners created an ad hoc group to discuss the possibility of moving GSM Radio activities into 3GPP and to make recommendations for decision by the Organizational Partners. The ad hoc group met three times in face-to-face meetings, and exchanged numerous ideas via e-mail. The result is a proposal, detailed in this report, on how the work should be moved in to 3GPP, should the OPs agree that the work should be moved.

The proposal presented in this report adheres to the two assumptions that were put forth in the ad hoc group's terms of reference:

1) Any proposed new 3GPP work items will have no negative impact on current Release 99/00 schedules, resources and funding.
2) Only those parties within 3GPP interested in contributing to 3GPP developments in this subject area will be required to resource and fund this specific activity.

These and other provisions of the plan were designed to address the concerns expressed regarding the possible movement of work.

In summary, our proposal contains the following major provisions:

- A new TSG would be created - TSG GERAN -into which essentially all current SMG 2 work would be moved
- The work of SMG 7 would be moved into the proposed TSG GERAN.
- The generic operations and maintenance work of SMG 6 would be transferred to 3GPP TSG_SA_WG5, while radio-specific GERAN work in SMG 6 would be transferred into the proposed TSG_GERAN.
- The work of SMG 9 that is specific to GSM and 3GPP systems would be transferred into 3GPP T3.
- The other ETSI SMG groups already have direct SMG-3GPP correlation, and the corresponding groups are already meeting in parallel or at least in close collaboration. Therefore this proposal recommends the formal transfer of this work.

If the OP’s decide that the work should be moved, the following items have been or should be drafted for approval by the Organizational Partners at their July meeting.

1) New/revised terms of references for the affected TSGs (Annex B)
2) Proposed modifications (if any) to the 3GPP Working Procedures, Project Description, and Partnership Agreement
3) Plan for the 6-month review period, and for an organizational review to report back to the OP’s during the first quarter of 2001.

1. Background

The current "Scope and Objectives" section in the 3GPP Working Procedures (July 1999) states:

"The 3rd Generation Mobile System and its capabilities shall be developed in a phased approach. Initially, 3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for the first phase of a 3rd Generation Mobile System including:

- UTRAN (including UTRA; W-CDMA in Frequency Division Duplex (FDD) mode and TD-CDMA in Time Division Duplex (TDD) mode);
- 3GPP Core Network (Third Generation networking capabilities evolved from GSM. These capabilities include mobility management and global roaming);
- Terminals for access to the above (including specifications for a UIM);
- Service and system aspects.

The Technical Specifications and Technical Reports shall be developed in view of global roaming and circulation of terminals. The set of 3GPP Technical Specifications and Technical Reports for the first phase of the 3GPP core network and the specifications for the GSM core network should be common to the greatest extent possible and should not be unnecessarily different."

1.1 Committee T1 Liaison

In September 1999, Committee T1 sent a liaison to its 3GPP Organizational Partners requesting that: the Terms of Reference of 3GPP be expanded to include Evolved GSM Radio Access; that all evolutionary work of GSM should be transferred to 3GPP; and that Release 2000 is the right timeframe to implement this proposal. Among the arguments presented were the following:

- For the foreseeable future, there will continue to be multiple air interfaces for the 3GPP "Family of Systems". These systems will coexist with evolved GSM radio interfaces. To the extent possible, common services should be supported in the same way regardless of the specific air interface.

- It is in the interest of system operators using different air interfaces due to varying spectrum situations, to have a common IP-based core network.

- The All-IP effort and its further evolution currently being pursued in 3GPP SA2 will benefit from a common IP-based core network independent of the radio interface. In fact, the All-IP architecture and development needs to be addressed on an end-to-end basis, including radio aspects, in a single body for greater technical consistency and resource efficiency.

- Release 99 is focused on completion of fundamental UMTS capability to meet early service dates and operator requirements. Release 2000 will present an opportunity to gain the advantages of better coordination and development of advanced GSM capabilities with the 3G capabilities without risk to initial UMTS schedules.

- EDGE will utilize the EGPRS network, which will evolve towards IP-based network capabilities starting with Release 2000. W-CDMA (UMTS) will also be supported by an all IP-based network. A common Core Network for (E) GPRS and UMTS-based packet services, and common operation of services will be enabled. System operators and roaming subscribers will enjoy the benefits of common services and architecture.

- For North American carriers and other carriers with spectrum limitations, EDGE is a critical part of the evolution path towards 3G and UMTS. As a consequence, there is a requirement to incorporate features and functions of 3G into the EDGE development.

- Fewer overall meetings, documents, processes, and people will be needed as a result of greater efficiency.

- Enable all documentation to be coordinated, and minimize the different revision levels of similar implementations and technological applications.

1.2 ETSI Proposal

In response to the T1 liaison, ETSI submitted a contribution to the 3GPP/OP meeting in January 2000 stating that:

- ETSI supports in principle the proposal made by Committee T1 (subject to the endorsement of the ETSI General Assembly)

- ETSI proposes that in addition to transferring the GSM radio specification work, all remaining GSM specification activities should also be transferred[1]

- ETSI proposes that the GSM radio activities should be placed in a new TSG within 3GPP

- ETSI proposes that there should be no financial impact on those OPs that do not declare an interest in the GSM radioactivities.

- ETSI proposes that the latest date by which the GSM activities should be transferred to 3GPP should be June 2000.

1.3 ARIB Comments

Also in response to the T1 liaison, ARIB submitted a contribution to the OP meeting commenting:

- 3GPP activities are based on common interest. That means each participating SDO and individual member needs to commit to 3GPP objective and scope. Unfortunately, ARIB has no requirements to produce standards of GSM radio access including EGPRS in Japan. So ARIB can not request ARIB individual members to take part in the study related to GSM radio access in 3GPP.

- ARIB respects and appreciates the hard work of many members of 3GPP for producing necessary specifications. There is still remaining work that should be completed in March 2000 and after that as Release 99. We also need to identify study items as Release 2000. 3GPP has many study items in front of us. It is very important to keep the progress in 3GPP efficient and ARIB thinks we had better keep the current scope as it is.

- Since ARIB has no interest in GSM radio aspects, ARIB can not ask its members for fund raising of the relevant work in 3GPP.

[1] Note that all GSM activities in Committee T1 have either been completed or transferred to ETSI SMG.

1.4 TTC Comments

Also in response to the T1 liaison, TTC submitted a contribution to the OP meeting with comments similar to the first 2 ARIB comments and the following additional comments:

- TTC believes that the current cooperation scheme between ETSI SMGs and 3GPP WGs has been working well and will continue to work in future. In fact WG meetings are jointly held with corresponding ETSI SMGs in many cases. If there exist specific problematic areas, we should first identify them and improve the current cooperation scheme.

- The Iu interface was designed independent of any radio systems. This implies that the second-generation radio system can be accommodated on the third generation core network so long as it keeps the Iu interface specifications. This indicates that enhancements of the second-generation radio system can be done independently. If this is not the case, the accommodation of the second generation radio system on the third generation core network affects 3GPP specifications and this should be avoided.

1.5 Formation of Ad-Hoc

As a result of the above inputs, the PCG formed an “Ad Hoc Group on Movement of Work into 3GPP” to assess the impacts and appropriate program structure to support the transfer of appropriate ETSI/SMG and T1 programs related to capabilities into a 3GPP. Key study assumptions included:

- Any proposed new 3GPP work items will have no negative impact on current Release 99/00 schedules, resources and funding.

- Only those parties within 3GPP interested in contributing to 3GPP developments in this subject area will be required to resource and fund this specific activity.

The study and report are to be completed by April 1, 2000. Dr. Chuck Bailey of SBC TRI, member of the T1 delegation to 3GPP, was named to chair the AHG.

2. The current situation

3GPP today clearly already influence the work of SMG. All of the Service and Core Network work is done in 3GPP and more or less only radio specific items are still done within SMG (more details below). This is of course due to the fact of the common core network but separate radio access network.

The current work in SMG is concentrated on work on new specifications. However SMG also have the role to maintain the old GSM specification, all the way to the first phase1 specifications. This work is very limited but is still important to remember since errors are still found, which has to be corrected. This task has to be (and have been) transferred together with the different groups.

Figure 2.1 and figure 2.2 below shows the current groups and organization in SMG[2] and 3GPP[3] before any merger took place. Formally all SMG groups still exist even if the work of some of the groups is totally integrated into the 3GPP work. Some of the groups are to be closed in the very near future, e.g. SMG4.

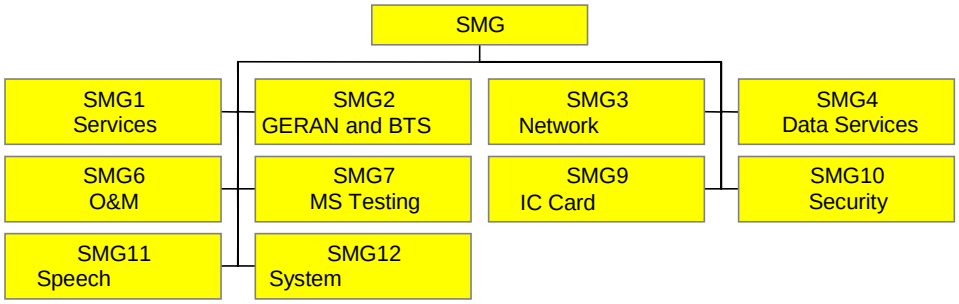

Figure 2-1 - SMG Organization

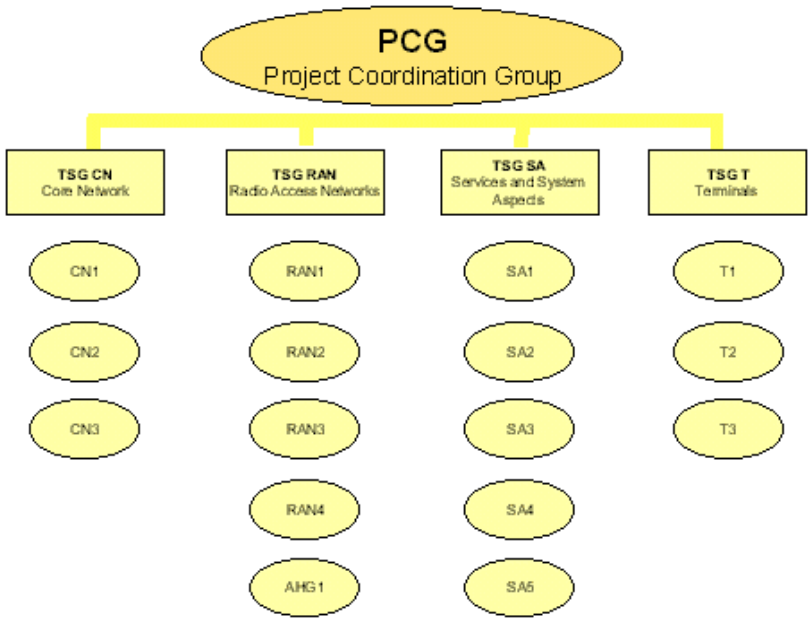

Figure 2.2 3GPP Organization

[2] http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=169&TB_NAME=SMG
[3] http://www.3gpp.org/About_3GPP/structure.htm

Much of the SMG work and the working groups have already been merged with 3GPP. Figure 2.3 is an illustration of how some of the SMG groups have been merged with 3GPP and how the remaining groups could be merged. The groups of main interest for the discussion have been marked with red borders (solid and dotted) around the boxes. For each SMG group a brief description about current status of co-operation with 3GPP is described in the following sub-sections.

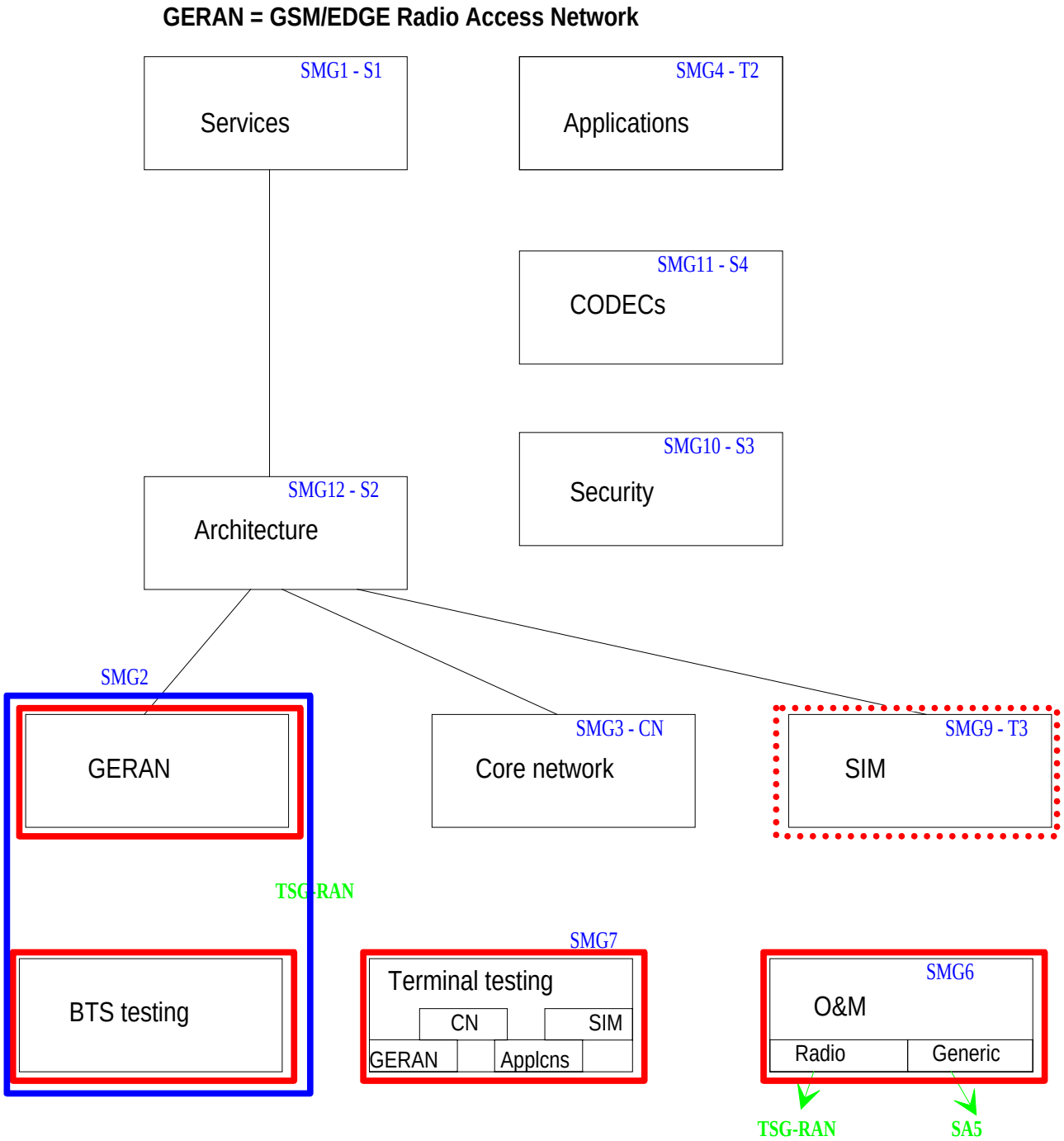

Figure 2.3 Correlation between SMG and 3GPP group

2.1 ETSI SMG and 3GPP

2.1.1 SMG1 and 3GPP S1 (Services)

SMG1 is analogous to 3GPP S1 and specify the services. The two groups already meet jointly and are effectively inseparable.

2.1.2 SMG2 (GERAN[4] and BTS Testing)

The Term of Reference for SMG2 includes specification of GERAN (GSM/EDGE Radio Access Network) & BTS Testing (formerly in SMG8). SMG2 has no direct analogue in 3GPP, even though occasional ad hoc joint meetings have taken place on specific topics.

Recent development of GERAN for Release 00 and Release 01 clearly indicates that common interface(s), e.g. the Iups interface for packet services, with UTRAN is a key requirement. The work on GERAN must therefore be (and has already been) coordinated with 3GPP S2.

Superficially, SMG2 is equivalent to 3GPP TSG-RAN, though actual work is independent due to the different natures of the technologies. In the future close co-operation is needed to make sure that dual mode functionality, i.e. for UMTS/GSM, and handover between the two technologies is supported.

2.1.3 SMG3 and 3GPP TSG-CN

SMG3 is analogous to 3GPP TSG-CN. All work is effectively done in the context of TSG-CN GSM-specific aspects are easily accommodated by a ten-minute session at the end of each CN Plenary-meeting. No extra meetings or sessions take place on working group level. The amount of GSM-only specifications is less than 10% of all specifications treated in TSG_CN and in terms of contributions the share of GSM specific documents is very small (0%-5%).

2.1.4 SMG4 and 3GPP T2 (Applications)

For Applications, SMG4 was analogous to 3GPP T2, but the mapping is not exact since some part has been transferred to CN3 (via SMG3). In practice SMG4 has already been closed.

2.1.5 SMG6 (O&M)

SMG6 (which is relatively inactive at present, since the radio part is quite stable) can be subdivided into 2 parts: Generic work and Radio-specific work. The generic work is equivalent to that conducted in 3GPP S5 whilst the radio-specific GERAN parts could be done jointly with other GERAN work.

2.1.6 SMG7 (Terminal Testing)

SMG7 has a general analogue to T1 in 3GPP. On a more detailed level, the SIM work corresponds to T3, the Applications work corresponds to T2, and the GERAN and CN work correspond to T1. No 3G terminal testing activity has yet started in 3GPP.

[4] GERAN is a term used to describe a GSM and EDGE based 200 kHz radio access network. The GERAN is based on GSM/EDGE release 99, and covers all new features for GSM Release 2000 and subsequent releases, with full backward compatibility to previous releases.

2.1.7 SMG9 (SIM Card)

For SIM, SMG9 is analogous to 3GPP T3. SMG9 and T3 meet sequentially rather than simultaneously. It is envisaged to split the generic work from technology-specific work. The generic work would stay with a re-shaped SMG9 that would be promoted to the level of independent Technical Committee within ETSI.

The proposed terms of reference were formulated in SMG#31 and presented to the ETSI Board. The new TC "SMG9" would pursue the generic work, whilst technology specific work would be conducted in T3. This implied, in fact, that some specifications would need to be transferred *from* 3GPP *to* the new SMG9, and this had already been agreed in principle by the PCG. It was clarified that the generic IC Card work was related to all cards for telecommunications use (fixed and mobile) including code-point allocation, file structure specification (e.g. for phone books), etc., and ensuring compatibility of the cards with telecommunications-unrelated aspects (such as banking) for which ISO standards exist.

2.1.8 SMG10 (Security)

For Security SMG10 is analogous to 3GPP S3 and meet together.

2.1.9 SMG11 (Codecs)

SMG11 is analogous to 3GPP S4 and meet together.

2.1.10 SMG12 (Architecture)

For Architecture, SMG12 is analogous to 3GPP S2, but SMG12 has some legacy GSM-specific items. LCS work is almost complete, but has not been completely transferred from GSM to 3G. SoLSA, though completed for GSM, has not been transferred, and would require further work for 3G. CTS, though completed, has not been transferred due to lack of commercial interest in implementation. GPRS requires considerable architecture work for 3G implementation, but has been transferred to 3GPP.

3. Ad hoc group work plan

The ad hoc group that created this report was established on January 19, 2000 by the 3GPP Organizational Partners. As described in Section 1 of this report (Background), it resulted from the introduction of contributions to that meeting, and the discussions that followed.

The discussions at the January 19 meeting did not result in consensus. It was decided, however, that an ad hoc group should be created to study the matter. The terms of reference of the ad hoc group are included in Annex A of this document.

As indicated in the ad hoc group's terms of reference, the partners requested that the group prepare a report by April 1, 2000. Since this represented an aggressive work schedule, it was agreed that several face-to-face meetings of the ad hoc group would be required, in addition to extensive electronic mail interactions. The group agreed to three face-to-face meetings: February 17 (Brussels, hosted by Alcatel), March 6 (Geneva, hosted by SBC), and March 29, 30 (Tokyo, hosted by ARIB).

At the first meeting:

- the current work in ETSI SMG was identified
- key issues related to work transfer were identified
- an outline for the group's report was drafted
- assignments were made for the writing of certain initial sections of the report.

At the second meeting:

- additional issues were identified
- action items were assigned to developed required information
- additional assignments were made for writing of report sections

At the third meeting:

- Agreement was reached on how a work transfer could be accomplished, should the OPs decide that the work should be moved
- Agreement was reached on materials that should be prepared for approval, should the OPs decide to the movement of work
- this report was prepared and agreed by the ad-hoc group

4. Issues Addressed

4.1 Potential advantages, rationale

- The transfer of GSM related tasks to 3GPP would ease the actual specification development work, in terms of obtaining service continuity and service transparency across systems utilizing UTRAN and GERAN
- The common services should, as far as possible, be supported through common architecture regardless of the specific air interface of UTRAN or GERAN
- To enable successful introduction of 3G services in areas with GSM coverage, dual-mode terminals are considered essential by 3GPP members having GSM networks and new entrants into markets with GSM coverage[5]. Therefore inter-RAN idle mode and handover require both technical and project co-ordination.

The transfer will result in greater efficiency through:

- Common project co-ordination (also for the RANs), better processes and higher transparency in the decision process
- Enabling co-ordination of documentation

4.1 Potential Disadvantages

In order to be flexible in the original 3GPP concept, there is a need to adopt a new concept based on the mutual benefits among the OPs and MRPs, which reflects situation changes. However, any original concept change should be made within a permissible range. Consequently, the disadvantages were discussed to assess the entire aspects, and three potential disadvantages are listed below:

- The work transfer may undermine the original 3GPP concept and/or disrupt 3GPP activities.
- 3GPP activities are supposed to address common interests. ARIB and TTC are not required to produce standards for GSM radio access, including EGPRS, in Japan. Organizational Partners and/or Individual Members having no interest in GSM may nonetheless be forced to spend time and money in this area.
- The inclusion of a second-generation radio system in 3GPP may have a negative impact on many aspects of the efficiency of generating 3GPP specifications and technical impacts.

Sections 5, 6, and 7 of this report are intended to resolve these issues.

[5] In some countries dual mode operation is actually a regulator requirement in the licensing.

4.2 Concerns

The practical issues were discussed based on a generic consideration of the advantages and rationale for the transfer, as well as the disadvantages. As a result, the following concerns were listed:

- Any work transfer should not in any way delay the progress of the original 3G work.
- Priority should be kept on the current 3G work areas because of the many unavoidable associated tasks and activities involved.
- Any work transfer should have no financial impact on those Organizational Partners having no interest in GSM.
- There are concerns as to the timing and manner of such a work transfer.
- The consent of all Organizational Partners would be required.
- There is the question of demarcation in documentation. ARIB and TTC urge that the documents for the 3GPP 3rd generation system should be self-contained.
- TSG work mapping would need to be reviewed to avoid conflicts and ensure smooth coordination.
- There is the question of how far a sharing of SIM work would be necessary.
- The work transfer should enable and ensure that the GERAN interfaces do not contradict the 3GPP interfaces. Any decision on GERAN should have minimal affect on 3GPP specifications, i.e. TSG-RAN specifications based on the current 3GPP concept.
- What is the appropriate TSG structure that could include GSM Radio Access?
- What would happen to the overall schedule of all TSGs in 3GPP if GSM Radio Access were transferred?
- The work transfer from SMG and T1P1 to 3GPP is a challenge to the 3GPP concept. The 3GPP Working Procedures should be modified accordingly so as to heal any breach in the concept.
- There are concerns about the documents to be transferred from SMG/T1P1 and/or to be newly developed by the new 3GPP.
  a. Who would own these documents? Would they be the common property of all OPs?
  b. How should the copyright issue be treated? In the same way as in R'99?

Sections 5, 6, and 7 of this report address these concerns.

5. Discussion

5.1 Organisational Options

5.1.1 SMG2 Work

The group evaluated the various ways that the work on GSM could be transferred to 3GPP and developed the following three scenarios with impact on current process, as indicated in Table 5-1.

TA BLE 5-1

Option	Advantage	Disadvantage
Independent TSGs coordinating with TSG SA	- limited impact in terms of meeting organizations - No change in the organization of the work in SMG2 - No negative impact on work in other TSGs as TSG GERAN will be self contained - Minimal co-ordination problems other than an extension of the SA plenary - SMG2 Delegates have not to follow the RAN plenary but rather do their approvals in their own plenary - New structure would allow review at year-end to address possibility of further integration. - Administrative costs easier to keep separate	- Common work will be handled by LS causing delay similar to the current situation.
TSG RAN + New subgroups	- Easier co-ordination for common work - Easier organization of joint meeting when required - Ease the co-ordination of the work on test (similar relation than WG4 and T1)	- Due to the number of delegates in each group there will be some difficulties to handle the meeting if the current organization of meetings for SMG2 is kept (5 days plenary including subgroup working) - Date already settled for 2000 - Extension of the duration of RAN plenary to full week - All SMG2 delegates will have to attend the full plenary - Administrative costs more difficult to separate
Independent TSGs but common plenary	- Minimal co-ordination problems - SMG2 Delegates have not to follow the full RAN plenary except for those concerned by common work.	- Change in the organization of SMG2 - Date already settled for 2000 - Extension of the duration of RAN plenary to full week - Unnecessary duplication of TSG approval process in GERAN and RAN

Given all of the above, the way forward is to initially place all the GERAN radio specification development work in a separate TSG GERAN.

5.1.2 SMG7

There are two aspects to the proposal to transfer of GERAN terminal testing specification development work to either TSG-T or a new TSG being referred to as the GERAN. In theory, some of the terminal testing specification development currently within ETSI TC SMG is viewed as being common to any radio access network wishing to interconnect with the evolved core network (i.e., radio access system independent aspects). This is primarily related to the testing of the higher layer protocols (i.e. above layer 1). However, even the common areas have differences associated with the radio technology. The other part of the proposal is specific to the radio technologies used for GERAN versus UTRAN (i.e. radio access system dependent aspects).

The advantages of placing the terminal testing specification development work in the TSG-GERAN are primarily related to the efficient and effective management of the terminal testing specification development work and the issues associated with the regulatory aspects and legacy GSM testing. To the extent, the GERAN radio access system development work is placed in separate TSG (e.g. TSG-GERAN), it makes senses that the members of the TSG-GERAN plenary would be the best equipped to decide on issues such as the approval of new work items, approval of specifications and reports, approval of change requests and the co-ordination of specification development work needed for the GERAN system. Currently, extensive liaisons are used between SMG2 and SMG7. This placement of the terminal testing specification development work also seems to best address the concerns raised regarding the funding of MCC support, any negative effects on the work related to UTRAN in TSG-RAN and T and sparing those technical experts not interested in the specification development work related to the GERAN from having to participate in such discussions.

Given all of the above, the way forward is to initially place all the GERAN terminal testing specification development work in a separate TSG GERAN.

5.2 Work to be transferred

- A new TSG would be created - TSG GERAN -into which essentially all current SMG 2 work would be moved
- The work of SMG 7 would be moved into the proposed TSG GERAN.
- The generic operations and maintenance work of SMG 6 would be transferred to 3GPP TSG_SA_WG5, while radio-specific GERAN work in SMG 6 would be transferred into the proposed TSG_GERAN.
- The work of SMG 9 that is specific to GSM and 3GPP systems would be transferred into 3GPP T3.
- For Security, SMG10 is analogous to 3GPP S3. The two meet jointly and are essentially combined.
- For CODECs, SMG11 is analogous to 3GPP S4. The AMR is common to both already. The two already meet jointly and are essentially combined.
- For Services, SMG1 is analogous to 3GPP S1. The two meet jointly and are essentially combined.
- For Applications, SMG4 is analogous to 3GPP T2. The two now meet jointly and are essentially combined.
- For Architecture, SMG12 is analogous to 3GPP S2, but SMG12 has some legacy GSM-specific items. The two already meet jointly and are essentially combined.
- For Core Networks, SMG3 is analogous to 3GPP TSG-CN. All work is already effectively done in the context of TSG-CN and these groups are combined.

5.3 Financial/Funding

Costs related to GSM specific work might be easily separated if the proposal recommended in Section 6 of this report is adopted. The Organizational Partners should define the details of splitting the cost for this work.

5.4 Timing/Schedule

The key objective behind the proposed transfer of the GERAN work to 3GPP is to improve coordination and avoid unnecessary discrepancies between the GSM standard and the 3GPP specifications. If the transfer occurs, it is beneficial for it to occur as early as possible in order to maximize the benefits of the transfer to all groups involved. Delay in the decision to transfer work may cause unnecessary discrepancies in the standardization process.

The first opportunity for a practical transfer of work occurs during May and June 2000. If the transfer of work occurs during this period, it is desirable for the Organizational Partners to indicate their potential decision on the transfer of work prior to the mid-May meeting of the appropriate groups.

The transfer of work may occur at the July 3GPP meetings, allowing ample time for the appropriate groups to plan their work under the new structure.

The relevant milestones are listed below in Table 5-2:

Table 5-2

Milestone	**Date**
Completion of Report:	1 April
SMG2 #36	22-26 May
SMG2 #37	28 Aug-1 Sep
SMG2 #38	13-17 Nov
SMG #32	19-20 June
SMG7 #25	16-19 May
TSG #8	21-28 June
TSG#9	20 Sep-28 Sep
TSG#10	6 Dec - 14 Dec
PCG & OP #4	17-19 Jul

5.5 Changes to 3GPP Scope

Changes to the 3GPP Working Procedures, Project Description, and Partnership Agreement will be required. These modifications do not appear to be extensive, and the Organizational Partners should arrange to have the appropriate changes made.

The OP's should ensure that the Working Procedures are updated to take in to account the relationship between financial contribution and participation rights, etc.

6. Proposed plan

6.1 Key Principles

The transfer of GSM-related tasks to 3GPP would enhance convergence of Core Network evolution and minimize coordination problems.. GSM legacy operators require consistency and compatibility to achieve service continuity and alignment. Currently, if there is conflict between 3GPP TSG_RAN and SMG2 on requirements to other parts of the system, there is no common place (such as TSG_SA) for conflict resolution. This approach would enable issue resolution in an open forum (SA) rather than by potentially hidden negotiations.

- The common services should, as far as possible, be supported in the same way regardless of the specific air interfaces of UTRAN and GERAN. By transferring the work from SMG2 to 3GPP, this avoids a separation of priorities, consistency, and evolution that would work against the success of 3GPP.

- The work transfer should enable and ensure that the GERAN interfaces do not contradict the 3GPP interfaces. Any decision on GERAN should have minimal affect on 3GPP specifications, i.e. TSG-RAN specifications based on the current 3GPP concept.

- The transfer would result in greater efficiency through:
  - Common project co-ordination (also for the RANs), better processes and higher transparency in the decision process

  - Enabling co-ordination of documentation

- Any proposed new 3GPP work items will have no negative impact on current Release 99/00 schedules, resources and funding.

- Only those Organizational Partners within 3GPP interested in contributing to 3GPP developments in this subject area will be required to resource and fund this specific activity.

- The consent of all Organizational Partners would be required for any transfer.

- The documents for the 3GPP 3rd generation system should be self-contained. Document demarcation will be handled by the MCC to allow for GSM only, 3GPP only, and common 3GPP/GSM documents.

- The work transfer from SMG and T1P1 to 3GPP is a change to the 3GPP agreements. The 3GPP Working Procedures and the specific Group Terms of Reference should be modified accordingly.

6.2 Proposed Plan

6.2.1 SMG2 (GSM/EDGE Radio) & 3GPP TSG_GERAN

It is clear that the most efficient way to transfer GSM-specific work into 3GPP would be to create a new "TSG GERAN" equivalent to the current SMG2 (GERAN + BTS Testing). The existing SMG2 structure, members, and leadership would move directly into the new TSG_GERAN, with the current leadership proposed as convenors. This should satisfy the significant concerns of ARIB and TTC that the transfers not impact ongoing 3GPP activities, by separating the major GSM activity. It is also recommended that this TSG_GERAN should be kept on the same existing schedule as the current SMG2 for the balance of Year2000, and that TSG_GERAN should not meet in parallel with TSG_RAN (to avoid conflicts on company delegates). TSG_GERAN will also be reporting its results into the TSG_SA plenaries.

6.2.2 SMG7 (Terminal Testing) & 3GPP TSG_T_WG1:

Currently TSG-T1 consists of 3 sub working groups, RF, EMC and the signaling group. The signaling group deals with all signaling issues, including L2 and RRM.

SMG7 should be moved into TSG_GERAN as a Working Group and reviewed after six months. It would consist of current SMG7 members with the current chairman proposed as convenor for the first 2 meetings.

The question of whether there is a better way to organize this work within the 3GPP can be studied, taking into account legacy and regulatory aspects. Any additional proposals can be addressed after the 6-month review period for the new TSG.

6.2.3 SMG6 (O&M) & 3GPP TSG_SA_WG5:

For O&M, SMG6 (which is relatively inactive at present, since the radio part is quite stable) can be subdivided into 2 parts: Generic work and Radio-specific work. The generic work is equivalent to that conducted in 3GPP TSG_SA_WG5 (and should be transferred there), while any radio-specific GERAN parts should be transferred into the new TSG_GERAN.

6.2.4 SMG9 (SIM) & TSG_T_WG3:

For SIM, SMG9 is analogous to 3GPP T3. SMG9 and T3 meet sequentially rather than simultaneously. It is envisaged that all technology-specific work is transferred from SMG9 to T3. It is noted that there is ongoing discussion on generic IC card issues within ETSI, however details with respect to this issue are beyond the scope of this report.

6.2.5 OTHER GROUPS

A number of other groups already have direct SMG-3GPP correlation, and the corresponding groups are already meeting in parallel or at least in close collaboration. For the groups listed below, transfer of work from SMG to 3GPP does not raise any concerns, and is in fact largely achieved. It is suggested that this transfer be completed and formalized.

- For Security, SMG10 is analogous to 3GPP S3. The two meet jointly and are essentially combined.
- For CODECs, SMG11 is analogous to 3GPP S4. The AMR is common to both already. The two already meet jointly and are essentially combined.
- For Services, SMG1 is analogous to 3GPP S1. The two meet jointly and are essentially combined.
- For Applications, SMG4 is analogous to 3GPP T2. The two now meet jointly and are essentially combined.

- For Architecture, SMG12 is analogous to 3GPP S2, but SMG12 has some legacy GSM-specific items. The two already meet jointly and are essentially combined.

- For Core Networks, SMG3 is analogous to 3GPP TSG-CN. All work is already effectively done in the context of TSG-CN and these groups are combined.

7. Implementation Plan and Conclusions

It is recommended that, following agreement by the Organizational Partners (OP's), all transfers should take place no later than the July meeting of the OPs. In accordance with the 3GPP Working Procedures, all new groups will be convened for 2 meetings by their existing chairs (acting as convenors) and new elections for chairs will take place at their second meeting. There will be a mandatory review period of 6 months to evaluate these specific decisions at the end of Year2000 (December TSGs) and to facilitate further changes or optimization.

The cost for supporting the transferred GSM work should only be shared by those Partners who assert interest and responsibility and derive benefit from the evolved GSM activity.

The 3GPP TSG terms of reference will need to be modified to reflect the transfer of work. Proposed new/revised terms of reference are included in Annex B of this report.

The 3GPP Working Procedures may require changes to reflect the transfer of work. The Working Procedures Ad Hoc Group has been asked to investigate whether any revisions will be required. Changes may also be required to other governing documents of the Partnership Project, and it is recommended that the OP's take the necessary steps to modify the appropriate documents.

In order to implement this plan, the following items should be drafted for approval by the Organizational Partners:

- New/revised terms of references for the affected TSGs
- Proposed modifications (if any) to the 3GPP Working Procedures, Project Description, Partnership Agreements, etc.

Annex A - Ad-Hoc Group Terms of Reference

Objective for the Ad Hoc Group on Movement of Work into 3GPP

To assess the impacts and appropriate program structure to support the transfer of appropriate ETSI/SMG and T1 programs related to capabilities into a 3GPP.

Key Study Assumptions

1) Any proposed new 3GPP work items will have no negative impact on current Release 99/00 schedules, resources and funding.
2) Only those parties within 3GPP interested in contributing to 3GPP developments in this subject area will be required to resource and fund this specific activity.

Study Methodology

1) Collect inputs regarding what work items could be moved from ETSI/SMG and T1 into a 3GPP TSG program structure, incremental to current 3GPP programs.

2) Identify the potential impacts for each of the proposed work transfer items above on current 3GPP programs including:
   - technical
   - financial and support services
   - organizational impacts on TSGs
   - schedule impacts on Release 99/0
   - 3GPP scope
3) Identify potential program schedules and timelines for proposed transfer work items.
4) Identify 3GPP TSG structural options to support the appropriate transfer work items for EDGE/GPRS related programs.

Final Study Outcome

- Study and report completed April 1
- Recommendation to 3GPP OP

References:

Documents from 3GPP OP#2 related to the EDGE/GPRS subject matter

Note:

The results to date from the ETSI Ad Hoc group established to study the impacts and mechanisms for potential transfer of relevant SMG work items related to EDGE/GPRS into 3GPP will be made available to this study as a basis for this work.

Annex B - Draft Terms of Reference for TSGs

B.1 Draft GERAN Terms of Reference

GSM/EDGE Radio Access Network Technical Specification Group (TSG-GERAN) Terms of Reference

Background

Operators of GSM/GPRS systems need an evolution and interoperability strategy. Evolution of GSM/EDGE radio access technologies offers such a path. This approach will ensure that systems based on 3GPP specifications will be capable of rapid development and deployment of competitive service offerings while still enabling global roaming.

Terms of reference

The technical specification development work within 3GPP is accomplished by Technical Specification Groups (TSGs) according to the principles and rules contained in the Project reference documentation (Partnership Project Description, Partnership Project Agreement, Partnership Project Working Procedures). In particular, the TSGs report to the Project coordination Group (PCG), and may organize their work in Working Groups and liaise with other groups as appropriate.

Each TSG has the responsibility to develop, approve and maintain the specifications within its terms of reference.

The TSG GSM/EDGE Radio Access Network (TSG-GERAN) is responsible for the radio access part for GERAN specifications

Specifically it has a responsibility for:

- GERAN Radio aspects, and interfaces.
- Management of work items placed under its responsibility.

More specifically, TSG-GERAN will address the following areas of work:

- RF aspects of GERAN
- GERAN Radio Layer 1 specification;
- GERAN Radio Layer 2 specification;
- GERAN Radio Layer 3 RR specification
- A interface specification, Gb interface specification
- Internal GERAN interface specifications such as A_{bis}, and A_{ter} (CCU-TRAU)
- Conformance test specifications for testing of all aspects of GERAN base stations
- Conformance test specifications for testing of all aspects of GERAN terminals
- Specifications for GERAN radio performance and RF system aspects.
- GERAN specific O&M specifications for the nodes in the GERAN
- Liaising with other TSGs to ensure overall co-ordination.

Glossary of terms

CCU Channel Codec Unit
CN Core Network
GSM Global System for Mobiles
EDGE Enhanced Data for GSM Evolution
RR Radio Resource
TRAU Transcoder and Rate Adapter Unit
O&M Operations and Maintenance

B.2 Draft RAN Terms of Reference

DRAFT TERMS OF REFERENCE - RADIO ACCESS NETWORK Technical Specification Group

Background

Third generation mobile systems should be based on new wide band, multimode, flexible radio access. This approach will ensure that systems based on 3GPP specifications will be capable of rapid development and deployment of competitive service offerings while still enabling global roaming.

Terms of reference

The technical specification development work within 3GPP is accomplished by Technical Specification Groups (TSGs) according to the principles and rules contained in the Project reference documentation (Partnership Project Description, Partnership Project Agreement, Partnership Project Working Procedures).

In particular the TSGs report to the Project coordination Group (PCG), and may organize their work in Working Groups and liaise with other groups as appropriate.

Each TSG has the responsibility to develop, approve and maintain the specifications within its terms of reference.

The TSG Radio Access Network (TSG-R) is responsible for the UTRAN, including its internal structure, [of systems based on 3GPP specifications].

Specifically it has a responsibility for:

- Radio aspects of Terminal Equipment and UTRAN functions (FDD & TDD), requirements and interfaces. Management of work items placed under its responsibility.

More specifically, TSG-R will address the following areas of work:

- Radio Layer 1 specification;
- Radio Layer 2 specification;
- Radio Layer 3 RR specification;
- Iub specification (including logical O&M);

- Iur specification;
- Iu specification;
- UTRAN O&M requirements;
- Transport of implementation specific O&M between the Management System and node B
- Conformance test specifications for testing of all aspects of base stations;
- Specifications for radio performance and RF system aspects.
- Liaising with other TSGs, in particular TSG SA, to ensure overall co-ordination.

Glossary of terms

CN	Core Network
FDD	Frequency Division Duplex
GERAN	GSM EDGE Radio Access Network
IP	Internet Protocol
O&M	Operations and Maintenance
QoS	Quality of Service
RR	Radio Resource
TDD	Time Division Duplex
UE	User Equipment
USIM	Universal Subscriber Identity Module
UTRAN	Universal Terrestrial Radio Access Network
Node B	see TS 25.401
VHE	Virtual Home Environment

B.3 Draft CN Terms of Reference

There were no changes to the CN Terms of Reference

B.4 Draft T Terms of Reference

DRAFT TERMS OF REFERENCE
Terminals Technical Specification Group

Background

One of the key objectives of third generation systems is that they should aim at providing services anywhere, anytime. This translates into requirements for the 3GPP terminals to roam freely between networks and to be able to circulate freely around the globe.

Terms of reference

The technical specification development work within 3GPP is accomplished by Technical Specification Groups (TSGs) according to the principles and rules contained in the Project reference documentation (Partnership Project Description, Partnership Project Agreement, Partnership Project Working Procedures).

In particular the TSGs report to the Project coordination Group (PCG), and may organize their work in Working Groups and liaise with other groups as appropriate.

Each TSG has the responsibility to develop, approve and maintain the specifications within its terms of reference.

The TSG Terminals (TSG-T) is responsible for specifying the Terminal Equipment interfaces ensuring that terminals based on the relevant 3GPP specifications meet the 3GPP objectives.

Specifically it has a responsibility for:
- UTRAN-based Terminal Equipment performance specifications
- USIM and its interface specifications
- Management of the work items placed under its responsibility

More specifically, TSG-T will address the following areas of work:
- Service capability protocols,
- Messaging,
- Services end-to-end interworking,
- SIM/USIM to Mobile Terminal interface and functionality,
- Model/framework for terminal interfaces and service (application) execution
- Conformance test specifications of UTRAN-based terminals, including radio aspects,
- Multi-mode terminals
- Glossary of terms
- SIM/USIM UMTS Subscriber Interface Module

B.4 Draft SA Terms of Reference

DRAFT TERMS OF REFERENCE
SERVICE AND SYSTEM ASPECTS
TECHNICAL SPECIFICATION GROUP
(TSG SA)

Background

One key aspect of third generation systems is that they should be based on defined service capabilities rather than on defined services. This approach will ensure that systems based on 3GPP specifications will be capable of rapid development and deployment of competitive service offerings while still enabling global roaming via the Virtual Home Environment (VHE) concept.

Terms of reference

The technical specification development work within 3GPP is accomplished by Technical Specification Groups (TSGs) according to the principles and rules contained in the Project reference documentation (Partnership Project Description, Partnership Project Description, Partnership Project Agreement, and Partnership Project Working Procedures).

In particular the TSGs report to the Project coordination Group (PCG), and may organize their work in Working Groups and liaise with other groups as appropriate.

Each TSG has the responsibility to develop, approve and maintain the specifications within its terms of reference.

The TSG Service and System Aspects (TSG-SA) is responsible for the overall architecture and service capabilities of systems based on 3GPP specifications and, as such, has a responsibility for cross TSG co-ordination. Any difficulty that may appear in this role shall be reported to the PCG.

Specifically it has a responsibility for:

- Definition, evolution and maintenance of the overall system architecture including the assignment of functions to particular subsystems (UTRAN, GERAN, CN, terminal, SIM/USIM), identification of key information flows and definition of required bearers and services offered by these different subsystems.
- Development of a framework for services, service capabilities, service architecture, charging and consideration of need for «default» services and/or applications
- Definition of a security framework and review of security aspects of overall system
- Management of work items including assignment of tasks to other TSGs and monitoring of progress

More specifically, TSG-SA will address the following areas of work:

- Services Capabilities
  Definition of service and feature requirements
  Development of service capabilities and a service architecture for cellular, fixed and cordless applications.
- Stage 1 and 2 description of : Charging and Accounting
  Network Management
  Security Aspects
- Architecture
  Definition, evolution and maintenance of the overall architecture including the assignment of functions to particular subsystems (e.g. UTRAN, GERAN, CN, Terminal, SIM/USIM) and identification of key information flows. In co-operation with the other TSGs, define required services, service capabilities and bearers capabilities offered by the different subsystems, including Quality of Service requirements for access to both packet and circuit switched networks.
- CODEC aspects
  Principles for definition of end-to-end transmission.
  Definition, evolution and maintenance of relevant specifications.
- Project Coordination
- High level co-ordination of the work performed in other TSGs and monitoring of progress.

Glossary of terms

CN:	Core Network
GERAN	GSM/EDGE Radio Access Network
IP:	Internet Protocol
O&M:	Operations and Maintenance
QoS:	Quality of Service
RR:	Radio Resource
UE:	User Equipment
USIM:	Universal Subscriber Identity Module
UTRAN:	Universal Terrestrial Radio Access Network
VHE:	Virtual Home Environment

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