3GPP TSG CN#8 Dusseldorf, Germany, 19 -21 June, 2000

Source: SA WG2

Title: Project Plan, version 1.2

Document for: Information

Agenda Item:

e-mail from Alain Sultan, MCC follows:

Dear All.

Please find enclosed the project plan in its -now official- version 1.2. It contains the latest comments of the WGs. The next steps are:

- To (go on) approving the WI coversheets corresponding to the WIs listed here. The conclusions of last week meetings were that one WI coversheet can cover several WIs: a classical configuration is to have one WI coversheet covering a BB and all its related WTs. This is mainly due to the very important number of WTs (otherwise, 3GPP will spend all his time just approving WI coversheets...). However, this needs to have clearly one responsible WG/TSG per BB, at least to provide the WI coversheet. This is not always the case and will be corrected in the next version.
- To start keeping track of the progress. MS Project enables to do that, so this is one main reason to adopt this tool. But again, don't worry: an MS Word version can be produced at any time, so apart from MCC and IGC convenors, no one needs to have MS Project.

Best Regards, Alain Sultan

3GPP Project Plan for R00 v.1.2

Introduction

This document proposes the 3GPP **Work Plan for Release 2000**. It describes the complete set of *R00 work items* and classify them as *feature*, *building block* and *work task:* a *feature* is subdivided into *building blocks* and a *building block* is subdivided into *work tasks* (definitions are given bellow).

This tree structure is established to ease the monitoring of the 3GPP work progress for R00, and to make explicit the purpose of the work assigned to one WG in the global system.

The aim of this Work Plan is to lead in a consistent way the activities of the full 3GPP community for the Release 2000.

Background

Short explanations of the concepts used in this document are provided bellow (extracted from SP-000109). **Feature:** New, or substantially enhanced functionality which represents added value to the existing system. A feature should normally embody an improved service to the customer and / or increased revenue generation potential to the supplier.

Building block: A sub-division of a feature, representing a set of technical functionality which would generally be expected to reside in a single system element, i.e. a single physical or logical entity or a single protocol. Building blocks may be "re-usable" - that is, a single building block may be common to two or more features.

Work task: A sub-division of a building block, representing a self-contained, well-scoped and well-scheduled item of work. A work task will almost certainly be the responsibility of a single Working Group. The output of a work task is the creation of one or more new Technical Specifications (or Reports) and / or Change Requests to existing TSs / TRs.

Work item: A generic term to refer to a given *feature, building block* or *work task*, i.e. all the individual elements of the table bellow should soon become work items (some work tasks may however be grouped within a single WI). A full description of the term *work item* can be found in the 3GPP Working Procedures, as detailed in the annex (the complete 3GPP Working Procedures can be found at http://www.3gpp.org/About_3GPP/3gpp_wp.zip).

Status of review by the 3GPP Groups

This version encompasses the comments made by the Working Groups and the TSGs. All the 3GPP WGs have now reviewed the proposal.

The Project Plan is however a living document, so comments can be raised during all its life time. Comments should be made according to the rules specified in the section "contacts for comments". **Any comment that does not follow this procedure will not be incorporated.**

Next steps

Approval of Work Items:

All the Work Items identified in this document have to be officially approved. Several Work Items can nevertheless be approved using a single work item coversheet (in particular, several work tasks can be approved together).

Transfer from MS Word to MS Project:

This MS Word version has limited capabilities in term of readability. For this reason, the content of this document will be soon transferred to MS Project 98. This software provides some useful tools, like filtering the information to present only the work items to be fulfilled by a given (set of) WGs.

A visualisation of the filtered information will always be provided in MS Word format.

Warning

This Project Plan is a tool elaborated for the purpose of helping the coordination between the 3GPP WGs and TSGs. It does not contain any "mandating element". The involvement and the agreement of the WGs and TSGs to this plan is reflected by their approval of WIs coversheets corresponding to the WIs shown here.

Contacts for comments

For sake of sharing the workload, S2 has established 12 Inter-Group Co-ordination (**IGCs**). Each IGC has the responsibility to monitor the work progress on a number of work items, and each work item is monitored by a single IGC. In case of inconsistencies, comments should be made to the responsible IGC's convenor. The e-mail addresses of all the IGC convenors are provided bellow.

	IGC	Convenor	convenor's e-mail address
1.	Bearer and Access	François Courau,	francois.courau@alcatel.fr
	Stratum	Alcatel	
2.	QoS	Oscar Lopez-Torres,	Oscar.Lopez@t-mobil.de
		T-Mobil	
3.	CC and roaming	Alexander Milinski,	Alexander.Milinski@icn.siemens.de
		Siemens	
4.	Codecs	Ian Doig,	IANDOIG1@email.mot.com
		Motorola	
5.	Messaging	Martin Guntermann,	Martin.guntermann@d2mannesmann.de
		Mannesmann Mobilfunk	
6.	Terminal local features	Paul Voskar,	Paul.voskar@nokia.com
		Nokia	
7.	Service platforms	Christophe Gourraud,	christophe.gourraud@lmc.ericsson.se
		Ericsson	
8.	Security	Chris Pudney,	chris.pudney@vf.vodafone.co.uk
		Vodafone-Airtouch	
9.	Billing, charging and	Yukio Hiramatsu,	hiramatu@MAGNET.NETLAB.NTT.CO.JP
	management	NTT	
10.	Testing	by interim: Ian Doig,	IANDOIG1@email.mot.com
		Motorola	
11.	Location related issues	Jan Kall,	jan.kall@nokia.com
		Nokia	
12.	Overall Co-ordination and	Alain Sultan,	alain.sultan@etsi.fr
	general issues	ETSI/MCC	

Features, Building Blocks and Work Tasks of R00

Inter Group Co- ordination	Feature	Building block	WG: work task expected completion date
Bearer and Access Stratum	Evolution of transport	Evolution of the Transport in the UTRAN ¹	R3: Introduction of an option allowing an IP transport in the UTRAN R3: new RAB support (this belongs also to the RAN Improvements) R3: QoS optimisation for AAL2 connections
		Evolution of the Transport in the CN ² * WI formulation assigned to N4	?: User/signalling data transport on TCP/RTP/UDP/IP based bearers (Nb/Nc) ?:User/signalling data transport on ATM/AAL2 bearers (Nb/Nc) N4: Separation of call and bearer control
		Evolution of Bearers in the CN ³ * (Combine with above for WI)	N4: IP Transport of CN protocols (e.g., CAP, MAP) N4:Evolution of the bearers inside the PLMN N3:Evolution of the bearers at the inter-working point with other types of networks
	Radio Interface Improvement	Hybrid ARQ (Feasibility study) Improved usage of CCTrCH (Feasibility study)	R2; R3 R2; R3
		High Speed DL packet Access 5feasibility study) Terminal Power Saving (Feasibility study) USTS (Feasibility Study)	R2; R3 R2; R3 R2; R3
	Low Chip Rate TDD ⁴	To be further investigated	R1; R2; R3; R4
	RAN improvement ⁵	RRM Support over Iub and Iur Node B synchronisation for TDD ⁶	R3: RRM optimisation (5 issues) R3: Node B synchronisation for TDD
² These building block	ks are considered as independent. ks are considered as independent.	cause it is assumed that Rearer can be provided up	sing different transport techniques as they shall fit the

Transport and bearers are distinguished in this proposal because it is assumed that Bearer can be provided using different transport techniques as they shall fit the requirement in terms of QoS.

⁴ BB and WT associated to this feature are still under discussion

⁵ These building blocks shall be considered as independent from any features and followed as such.

⁶ This Building block belongs also to the Radio Interface Improvements for R2 activities

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		Improvement of Inter-Frequency and Intersystem measurement (Feasibility study)	R2; R3
		BTS classification	R2; R4: At least, two aspects have to be covered: FDD BTS and TTD BTS
QoS	Real Time QoS for packet services including VoIP	HOs: maintenance of real-time QoS while moving between cells in the PLMN including inter-SGSN change and SRNS relocation or possibly other mechanisms (S2 writes WI Desc)	S2: End-to-End multimedia QoS negotiation, Sept N1: End-to-End multimedia QoS negotiation Nov New or enhanced packet handling procedures to maintain real-time and non real-time services throughout packet session: S2: on QoS architecture and GPRS improvements, July RAN3 handover for real time services in PS domain, August N1: on GPRS GMM and SM aspects, July N4: on GTP aspects, July N1: changes to QoS re-negotiation procedure, August
		End-to-end/UMTS reservation and (re-) negotiation of QoS parameters Policy Framework implications (S2 writes WI Desc)	S2, N3: Study external QoS negotiation mechanisms, and as a result propose QoS negotiation and reservation mechanisms to be used in UMTS, (work started on 9 May 00), proposed WI (S2-001188 – cc domain): <i>July</i> S2, N3: Define interactions between external QoS negotiation and reservation mechanisms and UMTS QoS negotiation and reservation mechanisms Policy Framework impacts on the architecture (work started
			on 9 May 00), <i>August</i> N1: Possible new code points in QoS IE from external networks, <i>Oct</i> N1: inclusion of UMTS QoS Architecture (23.107) new point codes, <i>August</i> S5, N3, S2, S1: Consider issues related to charging for end-to-end QoS, <i>Sept.</i> S2: Study on how to detect transport of user data on IP-
			based signalling <i>Nov</i> . S2, N1, N3, T2: Mapping between UMTS QoS attributes and the attributes used by external QoS mechanisms, <i>Nov</i> . SMG2, SMG7: GERAN QoS Aspects, <i>Dec</i> .? S2, N1, N3: QoS for Signalling Bearer in and out of PLMN <i>July</i>
	Non-real time QoS Enhancements for packet services	Mapping of overall end to end QoS in each new interface (S2 writes WI Desc)	N4: Impacts on QoS profile anticipated, <i>July</i>

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			N3: For Packet as per real time QoS, see "Real Time
			QoS for packet services" above.
		Evolution of maximum SDU size	N4: Impacts on CN protocols (e.g., GTP, MAP)
		(S2 writes WI Desc)	anticipated, <i>Sept</i> .
			N3: impact on interworking over GTP e.g. PPP, <i>August</i>
		End-to-end (re-)negotiation of QoS	See "Real Time QoS for packet services" above.
		parameters	
		(S2 writes WI Desc)	
		HOs: maintenance of non real-time QoS	New or enhanced packet handling procedures to
		while moving between cells in the PLMN	support real-time and non real-time services, See "Real
		including inter-SGSN change and SRNS	Time QoS for packet services" above.
		relocation or possibly other mechanisms	
		(S2 writes WI Desc)	
	QoS for circuit switched services	HOs: support of inter-MSC change and	SMG2, SMG7: GERAN QoS Aspects, Dec.
		SRNS relocation	
		(S2 writes WI Desc)	
Call Control and	Provisioning of IP-based multimedia	Call control and roaming to support IP-based	Definition of service requirements. 1721.7., S1#9
Roaming	services	multimedia services in UMTS	Issues include e.g.:
	S1 proposing WI S1-000299 to SA#8		Roaming requirements
	TR22.976, WI Rapporteur, Mark Cataldo,		Requirements on supplementary services
	Motorola		Interworking requirements
			• TR22.976
			Architecture and Stage 2 80% complete in S2#14, i.e.
			in TSGS #9
			Approved S2 WI in SP-000150.
			Updated work item S2-001018
			WI Rapporteur Liz Daniel, Lucent
			S2, N1, N3, N4: Stage 2 description
			Issues include e.g.:
			Mobile IP
			RAB selection principles
			Optimized VoIP bearer mechanisms
			SIP multimedia protocol
			TR23.821
			N4: Study on impacts on HSS July
			114. Study on impacts on 1155 July

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			N1, S2: SIP Call Control protocol over Gm reference
			point (CSCF – UE) <i>Dec</i> .
			WI to be defined, one WI proposal should cover all N
			work tasks. Richard Brook, Lucent
			N1,S3: SIP Call Control security <i>June 2001</i> .
			Protocol architecture, whether SIP CC messages are transmitted via user plane or signalling
			Ciphering and integrity checking
			[to be reviewed with security area]
			N1: Verify that functionality exists in SIP Call Control
			to support the set of SS defined in 22.976, Gm IF <i>Dec.</i>
			Note: S1 to judge whether major deviations from
			current behaviour are acceptable
			N4: SIP Call Control SS and relationship to Mg, Mw
			and Cx including verification of the functionality to
			support the set of SS defined in 22.976 <i>Dec</i> .
			N1, T2: Multimedia Terminal capabilities, e.g.
			• CC version,
			• MS CM, etc. <i>Dec</i> .
			N1, N4: Multimedia Network capabilities, e.g. CC
			version, Protocol version, etc. <i>Dec.</i>
			N2, N4, S2: CSCF – HSS (Cx) applications and
			services (SCP) Dec.
			S2, N4 (HSS), N3 (interworking): Addressing, Identities <i>June</i>
			N1, N3,(S1 for requirements): Interworking with
			other multimedia protocols <i>Dec</i> .
			 Legacy systems (e.g., H.323, 3GH.324/M, H.320, H.248)
			, and the second
			• GSM PLMN
		TRANSI IF	• (Should be extensible to other protocols)
	Emergency call enhancements	IP&PS based Emergency call enhancements	S1: creation of 22.976 on Service Requirements for IP-based emergency calls: <i>July</i>
	N1 to define WI (Rouzbeh / Ericsson)		emergency cans. July
	112 to define 112 (ACOLDON / ESTESSON)		N1: SIP emergency calls and packet emergency calls in general (S1 requirements needed) <i>Dec.</i>

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			S2: Stage 2 for emergency calls and packet emergency calls in general 80% stable: Sept.This is critical task – it does not leave too much time for stage 3 work on .
			S1, N1, N4, T3: Distinction of emergency call types to different emergency services. <i>August</i>
			Someone (IETF, N1): Stage 3 for emergency calls and packet emergency calls in general. Dec
		CS based Emergency call enhancements	S1, N1, N4, T3: Distinction of emergency call types to different emergency services in CS domain. <i>August</i>
			S1, N1: Emergency call recalling capability enhancement. <i>Dec.</i>
		Access Security for IP-based services	 S3: Requirements Capture, Aug. Security Feature Specification, Aug (1st Draft) Definition of Security Architecture, Dec Integration of Security Architecture, June 2001
		FIGS	 S2, N2 S3: Requirements capture, Sept Security feature specification, Nov Feasibility study, Jan 2001 Definition of security architecture, CRs approved Mar 2001 Integration of security architecture, CRs approved at TSG level Dec 2001
		RAN improvements and evolution of the bearers on the Radio interface to enable efficient IP-based multimedia services in UMTS RAN: for detailed planning cf. IGC Bearer and Access Stratum	<intentionally blank="" left=""></intentionally>
		Non-real time QoS Enhancements for packet services • S2: for detailed planning cf. IGC QoS	<intentionally blank="" left=""></intentionally>

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• N5 to define work item: for detailed planning cf. IGC on Service Platform Enable bearer independent Circuit-switched network architecture • S2 WI on architecture (SP-000149) • Updated WI in S2-001017 • Rapporteur Ulrich Dropmann, Siemens S2: Architecture and Stage 2 description on 23.821 80% complete in S2#14, i.e. in TSGS #9 N3: Standardisation of protocols (user plane) over reference points between MGWs Dec. N4: Standardisation of protocols over reference points between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves]		CANTEL A LAW ID	2 (2 11 1 6 11 1)
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Enable bearer independent Circuit- switched network architecture S2: Architecture and Stage 2 description on 23.821 80% complete in S2#14, i.e. in TSGS #9 N3: Standardisation of protocols (user plane) over reference points between MGWs Dec. Rapporteur Ulrich Dropmann, Siemens N4: Standardisation of protocols over reference points between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves]			
switched network architecture • S2 WI on architecture (SP-000149) • Updated WI in S2-001017 • Rapporteur Ulrich Dropmann, Siemens Siemens **Siemens** **Sie		pianning cf. IGC on Service Platform	
 S2 WI on architecture (SP-000149) Updated WI in S2-001017 Rapporteur Ulrich Dropmann, Siemens N3: Standardisation of protocols (user plane) over reference points between MGWs Dec. N4: Standardisation of protocols over reference points between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves] 		Enable bearer-independent call control	
 Updated WI in S2-001017 Rapporteur Ulrich Dropmann, Siemens Teference points between MGWs Dec. N4: Standardisation of protocols over reference points between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves] 			
• Rapporteur Ulrich Dropmann, Siemens N4: Standardisation of protocols over reference points between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves]			
Siemens between MSC server and Gateway MSC server Dec. [additional work tasks possible as architecture evolves]			
[additional work tasks possible as architecture evolves]	Rapporteur Ulrich Dropmann,		
	Siemens		
Dec.			- · · · · · · · · · · · · · · · · · ·
			Dec.

Dubbeldoll, 21 23	5 ano , 2 000	•	
			N4: Bearer control between MSC server and MGW
			(protocol issues, stage 2) Dec.
			N3: Bearer control between MSC server and MGW
			(parameter value issues, stage 3)
			Dec.
			N3: Bearer control (control plane, e.g., Q.AAL2) between MGWs <i>Dec</i> .
		Bearer independence and codec control issues	<intentionally blank="" left=""></intentionally>
		for detailed planning cf. IGC Codecs	
	Circuit-switched multimedia services	Circuit-switched multimedia swap and	N1: call control and signalling aspects <i>Dec</i> .
		fallback	
		• Agreed WI NP-000051	N3: transport aspects <i>Dec</i> .
		Rapporteur: Juha Räsänen	N3: inband signalling <i>Dec</i> .
		(juha.a.rasanen@nokia.com)	S1, S2: Review whether service/stage 1 or
			architecture/stage 2 aspects need to be aligned <i>Dec</i> .
	Facsimile	Real Time Faxpostponed from R99 to R00, SP-	T2: T erminal capabilities, AT commands <i>Dec</i> .
		000169	N1: signalling aspects (e.g. ICM) <i>Dec</i> .
			N3: service provision <i>Dec</i> .
			S1, S2: Review whether service/stage 1 or
			architecture/stage 2 aspects need to be aligned <i>Dec</i> .
	Text telephony	Text Telephony	S1: Text Feature Stage 1 description
	• SP-000162 agreed WI. Rapporteur		S2: Text Feature Stage 2 architecture
	Gunnar Hellström, Ericsson Radio Systems	Text Feature Activation and transport	S2: SIP activation and transport
	AB,		S2: 3G-324 Activation and transport
	email: gunnar.hellstrom@omnitor.se tel:		S2: Data channel activation and transport
	+46 708 204 288		S4: Voice channel activation and transport
			S2: Selection of transport method
		Text Feature Interworking	N3 : PSTN Interworking <i>Dec</i> .
			N3: IP Interworking <i>Dec</i> .
			N3: PLMN Interworking <i>Dec</i> .
		Text Feature Terminal Aspects	T2:Connection of PSTN textphones to MS
		_	T2: Terminal interfaces and functions
			T2: MMS Commonalities
			T3: USIM aspects
	Bearer Modification without pre- notification	Service Modification without pre-notification between Objectives include modification not	N1: in call modify procedure <i>Dec</i> .
		using BICC (between Speech and Fax, Speech	N3: interworking function, TAF <i>Dec</i> .
	Preliminary as no official work item exists	and Modem, and Speech and Multimedia using	Preliminary as no official work item exists on the issue
•	on the issue	ISUP) and using BICC.	·
		WI proposed by N3 in N3-000269	
		= • ·	

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2 455014011, 2	11-23 June, 2000		N4: Out of band Transcoder Control <i>Dec</i> .
			Preliminary as no official work item exists on the issue
			T2: AT commands <i>Dec.</i>
			Preliminary as no official work item exists on the issue
		Bearer Modification because of radio conditions S1 requested to further elaborate requirements	S2: tbd
Codecs	Wideband Telephony Service	AMR – Wideband specification	S4,TD SP-000024: TR 26.901 v2.0.0 AMR Wideband
Couces	Whatsand Telephony Service	Thirt wild specification	Speech Codec Feasibility Study Report (Release 2000).
			S4,TD SP-000027: AMR Wideband Permanent project
			document WB-3: Performance Requirements,
			completed <i>TSG#7</i>
			S4,TD SP-000028: AMR Wideband Permanent project
			document WB-4: Design Constraints, completed
			TSG#7
			S4 ,WB AMR speech Codec Qualification <i>completed</i>
			S4 ,WB AMR speech Codec Selection Tests <i>June to</i>
			Oct. 5 candidates
			S4,WB AMR speech Codec Selection oct 23 - oct 29.
			S4, Wide Band Speech Telephony Terminal Acoustic
			Characteristics <i>Dec</i> .
			T1, to review Wide Band Speech Telephony Terminal
			Acoustic Characteristics <i>Nov</i> .
			S4, Wide Band Speech Telephony Terminal Acoustic
			Test Specification <i>Dec</i> .
			T1, to review Wide Band Speech Telephony Terminal
			Acoustic Test Specification <i>Nov</i> .
			S4 , Wideband Speech Codec General Description <i>Dec</i> .
			S4: Wideband Speech Codec (ANSI C-Code, Test
			Sequences, Speech Transcoding Functions, Error
			Concealment of lost frames, Source Controlled Bit-
			Rate Operation, Voice Activity Detector, Frame
			Structure), <i>Dec</i> .
			Wideband Speech Codec Performances
			Characterization Feb 2001
			Codec lists <i>Dec</i> .
			T1 Conformance tests (CRs to 34 series) <i>IGC Testing</i>
			June 2001
		WB AMR Implementation in UTRAN	RAN WG Tasks (CRs) Dec.
		k	
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Dusseldorf, 21-23	3 June, 2000		
		WB AMR Implementation in CN	CN WG Tasks (CRs) Dec. N1: Indication of supported codecs by the MS Bearer Capability negotiation Codec indication to MS
		WB Telephony Requirements	S1 requirements (CRs) Dec.
		QoS for speech and multimedia codec IGC QoS. Common Building Block. See IGC QoS documentation.	ST requirements (CRS) Dec.
		AMR Implementation in GERAN	GERAN WGs (SMG2 WGs)
	Packet switched mobile streaming application		S4: Td 280/00
	Transcoder-Free Operation (TrFO) SP-000094	OoBTC ⁷	N1: Adding new codecs and the signalling mechanism to negotiate the activation of the fcodecs should be studied for . Codec Negotiation between UE and MSC Signalling for See NP-000085 24.008, 23.009, 23.108 (29.002) Assumption for R99: As there is only one Codec, AMR, this does not need to be signalled. N4: Codec Negotiation inter MSC, Bearer establishment inter MSC. TS 23.153 R99 part complete. capabilities moved to annex. See NP-000127 Open issues:
			Handling of Conference Calls; Handling of Multi Party Supplementary Services; Handling of Handover UMTS to GSM; Handling of Sending a tone or Announcement; Protocol between MSCs (i.e. Iu UP Framing versus I.366). S2
			R2: Bearer establishment between UE and RAN, TFC control by RRC
			the UTRAN (i.e. it is not proposed to delete the Out a Work Item will be established to deal with this.

			R3: Bearer establishment between MSC and RNC as well as RNC and Node B, Notification of the Codec mode to RAN, Iu UP control procedure (rate control, initialization, time alignment)
		TrFO specification	N1:
		•	N4 N4: decided to standardise TrFO for R00.
			R3 R3: User & Control Plane procedures related to the Codec Commands to UE
			S3 Prevention of user fraud
			S4 26.103 Codec list, 3G equivalent of GSM 08.62
			WG ? Harmonization of TFO and TrFO may be required
	Support of Transcoder in CN	WI description and Tdoc S2-99352 Speech Transcoder: Location and Control at the UMTS Core Network Border	
		Transcoder at Edge	The TrFO feature is linked (use of BICC, codec negotiation) with the "work item which is due to R00 (same use of BICC and of AAL2 switching).
	Tandem Free aspects for 3G and between 2G and 3G systems	Tandem Free AMR	S4 TFO AMR Specification (New speccification forseen,, replacing 08.62 for 3G) Dec 00
		TFO AMR Implementation in UTRAN ?? Inband	RAN WG Tasks (CRs) Dec.
		TFO AMR Implementation in GERAN ?? Inband	TSG GERAN: the GERAN support Tandem Free Operation (TFO) services.
		TFO AMR Implementation in CN	CN WG Tasks (CRs) Dec.
	Transmission planning in 3G networks	Equivalent Transmission Planning Aspects of the Services in UMTS (TS 03.50)	RWGs Specifications/Reports
Messaging	Multimedia Messaging	Service Requirements	T2/S1: Review of MMS Stage 1 S1: Integrated Media Streaming <i>May</i>
		Technical Realization	T2/S2: Define Reference Architecture Model T2: Fulfill open Requirements of MMS Stage 1 Release 99: e.g. minimum set of media formats, media format conversion, personalization of MMS. T2/S2: Fulfill new requirements of MMS Release 00 (streaming,) T2: Definition of MMS primitives in MMS Stage 2

Dusseldon, 21-2	Advanced Cell Broadcast	Service Requirements	S1: Enhancements to release 99 CBS e.g. Charging
	Tall and Con Dioudeus	Ser 1100 requirements	requirements, Capacity Enhancements May
		CBC-RNC Protocol	R3: Refinements of TS 25.419
		Terminal aspects	T2
	IP Multicast	Service Requirements	
Terminal local	Alternatives to AT commands	TBD	TBD
features	AT commands	Edge AT commands.	T2: New AT commands to be added to 27. 007
		MMS AT commands.	T2: New AT commands to be added to 27. 007
		Other AT commands	T2: New AT commands to be added to 27. 007
	Wide Area Data Synchronisation	Continues evolution of Synchronisation	T2: additions to 27.103
	7,140 111 04 2 404 8 J 110112 01118401011	protocol	220 00000000000000000000000000000000000
		vObjects and Other Constructs for Use in	T2 : additions to 27.103 Dec 2000
		Data Synchronisation	22. 400.000 to 277100 200 2000
	UE Multiplexer	Multiplexing protocol (simultaneous	T2: Addition to 27. 010.
	on Manupicael	sessions over UE).	227770000000000000000000000000000000000
	UICC/ME interface	UICC/ME Performance Enhancements	T3: Feasibility study on speed enhancements on
	-	CICO/WILL I CITOT Marice Limitate Chiefes	existing UICC interface and alternatives . Dec 2000
	Terminal Local Model		T2: new TS Dec 2000
	UICC API	Test specification for UICC Java API	T3: UICC interface, Dec 2000
		Java API transfer to 3GPP	T3: Java API specification Dec 2000
	UICC/USIM database	TBD	T3: (approved at TSG #05 in TP-99210)
Service platforms	VHE	Evolution of VHE concepts	S1, S2,T2: Introduction of VHE within the IP Multi
Service platforms	Proposed S1 WI	Lividuon of VIII concepts	Media Domain
	(S2-001198)		S1, S2,T2: Evolution of VHE within the Packet
	Subject for approval by S1 on 16-06-00		Switched and Circuit-Switched Domain
	-	Service Continuity	S1: Definition and requirements on VHE within a
		3	single domain and between domains (CS, PS and IM)
			S2: VHE architecture within a single domain
			S2: VHE interworking between domains
		Personal Service Environment (PSE), user	S2: PSE architecture (e.g. HSS) and interfaces
	-	profiles and user profile management	S2, N4: User Profiles definition
		Interaction between VHE Toolkits	S1, S2: Develop definition and architectural
		111011101101101101101101101101101101101	consequences for the VHE toolkit interactions
		VHE management aspects	S1, S2, S5: Definition and Realisation of Service
		,gomene uspectis	Deployment, etc.
		Improvements to VHE security	S1, S2, S3: User Requirements. Principles and
			architecture definition for the different VHE toolboxes
			(e.g. MeXE, SAT, CAMEL and OSA)

	•		
			S3, N1, N2, N3, N4: (possibly) changes required from
			supporting platforms, e.g. gsmSCF, HLR
	ice Architecture	Evolution of OSA concepts	S1, S2: Introduction of OSA in the IP Multi Media
Proposed S			Subsystem
(S2-001199			S1, S2: Evolution of OSA in the Circuit Switched and
Subject for	r approval by S1 on 16-06-00		Packet Switched Domains
		Integration of OSA within IM domain	S1: Requirements on OSA for multimedia capabilities
			and features
			S2, N1, N5: Interaction between SIP call control and
			OSA
			S2, N2, N4, N5: Interaction between HSS and gsmSCF
			features and OSA
			S2, N5: Interaction between Multi Media network
			resources and OSA
		User Profile Management, User Profile	N5: SCFs for user profile access/management by OSA
		Access	applications
		Improvements to OSA security	S2: Technical requirements for OSA security,
			implementing the VHE toolkit security requirements
			S3: Requirements Capture (Sept), Security feature
			specification (Nov), Feasibility study (Jan 2001),
			Definition of security architecture, CRs approved (Dec
			2001), Integration of security architecture (CRs
			approved at TSG level, June 2001)
			N5: security related SCF(s) definition
			S3, N2, N4, N5: (possibly) changes required from
			supporting platforms, e.g. gsmSCF, HLR
		New Network Service Capability Features (N-	S1: User requirements for the OSA N-SCFs
		SCFs) and evolutions of existing ones, e.g.	S2: Technical requirements for the OSA N-SCFs
		Call Control SCF	S2: Specify the selection of SCFs within the network
		(Call Party Handling, SIP)	architecture (new and evolved exiting ones)
		Positioning SCF	N5: OSA APIs
		• Terminal Capabilities SCF	
		Charging SCF	
		E-Commerce SCF	
		New internal OSA APIs and evolution of	S1: User Requirements for the internal OSA APIs
		existing ones	S2: Technical Requirements for the internal OSA APIs
			N5: OSA APIs
		Enhancement of the Framework Service	S1: User requirements for the OSA Framework SCFs
		Capability Feature (Framework SCF)	

Dusseldoll, 21-2	5 June, 2000	i	
			S2: Technical requirements for the OSA Framework
			SCFs
			N5: OSA APIs
		Harmonisation/co-ordination with non UMTS	N5: Network Access Technology independence OSA
		related initiatives (e.g. SPAN3, 3GPP2, Parlay	API supporting VHE requirement on service continuity
		group)	
	CAMEL phase 4	Existing CAMEL procedures shall be	N2, N4: unnamed WT
		enhanced for the manipulation of media	
	SA1 to define WI	streams, where appropriate, typically for	
		VoIP	
	New feature to be added for CAMEL	CSE Initiated call setup including user	N2, N4: unnamed WT
	phase 4	interaction	
	•	Flexible approach to provide User	N2, N4: unnamed WT
		Interactions during a call	
		Interactions with Optimal Routing	N2, N4: unnamed WT
		CSE control of follow-on calls	N2, N4: unnamed WT
		CSE control over MT SMS	N2, N4: unnamed WT
	MExE	3 rd MExE classmark	T2: Additional features for MExE R2000
	WIEAE	Enhanced Security	T2: Additional features for MEXE R2000
		Support of the Terminal parts of the VHE	T2: Enhancements to MEXE R99
		/User Profile	12. Elinancements to WEXE K99
			T2. Eil.ilia. Cando and maniful annual
		AT command support	T2: Feasibility Study and possible support
		Secure download mechanism and capabilities	T2 : Feasibility study and possible support
		to support SDR concepts	TPA F 11111 1 1 111
		Support of MP3/MPEG4 content	T2: Feasibility study and possible support
		Support of SAT/OSA/CAMEL interaction to	T2: Feasibility study and possible support
		provide advance services	
Security	protection for user plane data	Integrity protection in access network (Rx?,	
Security	protection for user plane data	S3?)	
S3 should generate		Integrity protection in core network (e.g.,	
WIs		provided by IPsec) (S3?, N4)	
		Network wide encryption of user plane	S2, S3, R2, R3,, N4, SMG 2 WPA
		Name and provide prov	N1: authentication procedure
	Core network security: minimal solution	Protect MAP Signalling at the application	S2, N4
	Core network security. Infilmed Solution	layer	S3:
		layer	Completion of CRs at TSG level, Jun
	Core network security: full solution		S2, N4: undefined
	Core network security, run solution		buj 1476 dilacililod

S3:	
Requirements capture, Aug	
Security feature specification for GTP signall	ng,
Aug	
Security feature specification for other signal	ing,
Nov	
Feasibility study including definition of work	tasks
for this work item: July for GTP; Jan 2001 fo	î
other signalling	
Definition of security architecture: CRs approved	Sept
for GTP; Mar 2001 for other signalling	
Key Management S3:	
Study on the evolution of GSM CS S3, N4, N1, SMG 2 WPA	
algorithms S3:	
Requirements capture, Sept	
Security Feature Specification, Nov	
• Feasibility study, Jan 2001	
Definition of security architecture 1 st draft, M	ar
2001: CRs approved, May 2001	
Integration of security architecture: CRs approved	at
TSG level May 2001	
GEA 2 S3, N4	
N1:	
GEA capability indication in MS CM	
GERAN GERAN Security: S2, N1, N4,	
Access network encryption, [integrity SMG 2 WP A:	
protection], key length, algorithm • Presentation to S3 of system architecture, Aug	, ,
selection/design S3:	
Requirements capture, Sept	
Security Feature Specification, Nov	
• Feasibility study, Jan 2001	
Definition of security architecture 1 st draft, M	ar
2001: CRs approved, Dec 2001	

	Visibility and Configurability		T2, T3, RAN2, SMG2 WPA, N1
	visionity and Configuratinity		12, 13, RAN2, SMG2 WPA, N1 S3:
			Security feature specification, July
			• feasibility study, July
			definition of security architecture: CRs approved,
			September
			Integration of security architecture: CRs approved at
			TSG level, Dec
	Security features to support IP-based	Access network security (encyrption,	S2, S3, R2, R3, N4, SMG2 WPA
	multimedia services in UMTS	integrity, authentication)	N1:
			Integrity protection
			Authentication
		Lawful intercept	N4
			S3:
			Requirements capture, Sept
			Security feature specification, Nov
			• feasibility study, Jan 2001
			• definition of security architecture: CRs approved,
			Dec
			Integration of security architecture: CRs approved at
			TSG level, June 2001
		Protection for user plane data	See above [feature/BB]
		Ip security solutions	S3
	Network based end to end security		S3:
			Security Feature Specification, First Draft, Nov
			Feasibility Study Jan 2001
			Definition of Security Architecture, CRs
			Approved, March 2001
			Concept presented to CN, RAAN, T, GERAN, Apr 2001
	Genral Enhancements to the R99	Feasibility of an authentication vector revocation	N4, S3
	Security Architecture	mechanism	, , , , , , , , , , , , , , , , , , , ,
		Authentication result reporting	N4, S3
		UE triggered authentication	
		Retention of P-TMSI	
Billing, charging and	Definition of Architecture and Principles		S5: Key Administration & Distribution. Impacts on
management			32.101, 32.102, 30.808 and on 2G/3G Interworking.
			R3: Co-ordination O&M messaging Specification.
•	•	•	

Fault Management Configuration Management Charging		impact on Cell Broadcast Services, Location Services, ATM Maintenance. S5: IRP Notification Solution Set for CMIP, SNMP. Configuration Management IRP IS and Network Resource Model. IRP CM Solution Set for CORBA, CMIP, WBEM, SNMP. Impacts on 32.106. R2000 Naming Convention Updates. CM support of LCS/CBS
Configuration Management Charging		 S5: IRP Alarm Solution Set for CMIP and SNMP Test Management. Impacts on 32.111. Specify possible impact on Cell Broadcast Services, Location Services, ATM Maintenance. S5: IRP Notification Solution Set for CMIP, SNMP. Configuration Management IRP IS and Network Resource Model. IRP CM Solution Set for CORBA, CMIP, WBEM, SNMP. Impacts on 32.106. R2000 Naming Convention Updates. CM support of LCS/CBS
Charging		Configuration Management IRP IS and Network Resource Model. IRP CM Solution Set for CORBA, CMIP, WBEM, SNMP. Impacts on 32.106. R2000 Naming Convention Updates. CM support of LCS/CBS
		functions (Network Resource Model).
~ ~		S5: Charging solution to 30.802.
Call Cell Trace		S5: Call trace solution to 32.108
Security Management		S5; S3: Key Administration and Distribution for MAP
[GSM LCS O&M Project]		T1.P1: Project Management
testing (no break-down to features, building blocks or work tasks performed yet) Terminal Acoustic Test Spec UE Test Specs – FDD UE Test Specs – TDD UE Test Specs – Protocols UE Test Specs – ATS UE Test Environment UE Test Interface UE Test Specs – Proforma UE Electromagnetic Compatibility UICC Interface Test UICC Test Base Station Testing	Basic concept of SoLSA (broadcast LSA ids.	Creation of Work Item for UTRAN-SoLSA (This was
(SoLSA) The situation regarding SoLSA in 3GPP R00 is unclear at the moment, since only one company supported a new Work Item on UTRAN-SoLSA in the S1 April	zone tariffing) (The list of Work Tasks is from the Work Item description contribution to S1, tdoc. S1-000278)	supported only by one company in the S1 April meeting) S1: Development of SoLSA service descriptions S1, RAN: LSA definition S1, RAN: LSA selection R2: LSA information broadcast
	identified technical questions related to testing (no break-down to features, building blocks or work tasks performed yet) Terminal Acoustic Test Spec UE Test Specs – FDD UE Test Specs – TDD UE Test Specs – Protocols UE Test Specs – ATS UE Test Environment UE Test Interface UE Test Specs – Proforma UE Electromagnetic Compatibility UICC Interface Test UICC Test Base Station Testing Support of Localized Service Area (SoLSA) The situation regarding SoLSA in 3GPP R00 is unclear at the moment, since only one company supported a new Work Item	identified technical <i>questions</i> related to testing (no break-down to features, building blocks or work tasks performed yet) Terminal Acoustic Test Spec UE Test Specs – FDD UE Test Specs – TDD UE Test Specs – Protocols UE Test Specs – ATS UE Test Environment UE Test Interface UE Test Specs – Proforma UE Electromagnetic Compatibility UICC Interface Test UICC Test Base Station Testing Support of Localized Service Area (SoLSA) The situation regarding SoLSA in 3GPP R00 is unclear at the moment, since only one company supported a new Work Item on UTRAN-SoLSA in the S1 April meeting. Basic concept of SoLSA (broadcast LSA ids, zone tariffing) (The list of Work Tasks is from the Work Item description contribution to S1, tdoc. S1-000278)

Dusseldoff, 21-25	1		
			R3: Iu signalling support for SoLSA
			R3: Possible Iur signalling support for SoLSA
			R3: Possible Iub signalling support for SoLSA
			S2, R2: Adapt GSM stage 2 SoLSA for UTRAN
			CN WGs: Adapt SoLSA core network CRs
			RAN WGs: SoLSA specifications for UTRAN
			T WGs: Adapt SoLSA UE and USIM specifications
			S1: Study the usage of geographical information for
			SoLSA
		Localized Service Area (LSA) indication	S1: LSA display in UE
		Preferential access (cell access priority for	SA, CN and RAN WGs: Iu interface and MAP
		LSA users)	signalling
		Idle mode support (favouring LSA cells in	S2, RAN and T WGs: Adapt GSM specifications for
		idle mode)	UTRAN and UE
		Active mode support (favouring LSA cells in	SA, CN, RAN and T WGs: Adapt GSM specifications
		active mode)	for UMTS, UTRAN and UE:
		Exclusive access (private cells)	S1: To be studied if supported in UTRAN
		LSA only access (type cordless or WLL)	S1: To be studied if supported in UTRAN
		SoLSA interoperation aspects	S2: GERAN-SoLSA and UTRAN-SoLSA
		Sozoii moroperation aspects	interoperation
	Location Services	Service description	S1: Describe new service features <i>July</i>
		(Stage 1 development in S1)	predefined areas,
		(Stage 1 development in S1)	predefined areas, location of all UE in area?
		(Stage 1 development in S1)	location of all UE in area?
			location of all UE in area? accuracy classes?
		(Stage 1 development in S1) Overall system aspects of LCS	location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept.
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept. predefined areas, location of all UE in area?
			location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept. predefined areas, location of all UE in area? accuracy classes?
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		Overall system aspects of LCS LCS network management	location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept. predefined areas, location of all UE in area? accuracy classes? S2: Exception procedures Sept. CN WGs: corresponding Stage 3. No N1 work has been identified. S5 (to be more detailed)
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		Overall system aspects of LCS LCS network management	location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept. predefined areas, location of all UE in area? accuracy classes? S2: Exception procedures Sept. CN WGs: corresponding Stage 3. No N1 work has been identified. S5 (to be more detailed) S3 (to be more detailed) Sept. N4: Impact of R00 architecture e.g. on MAP signalling
		Overall system aspects of LCS LCS network management Security aspects of LCS	location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects <i>May</i> S2: Specify LCS Stage 2 for R00 and new service features <i>Sept</i> . predefined areas, location of all UE in area? accuracy classes? S2: Exception procedures <i>Sept</i> . CN WGs: corresponding Stage 3. No N1 work has been identified. S5 (to be more detailed) S3 (to be more detailed) <i>Sept</i> .
		Overall system aspects of LCS LCS network management Security aspects of LCS	location of all UE in area? accuracy classes? S2: Agree Work Item on LCS system and core network aspects May S2: Specify LCS Stage 2 for R00 and new service features Sept. predefined areas, location of all UE in area? accuracy classes? S2: Exception procedures Sept. CN WGs: corresponding Stage 3. No N1 work has been identified. S5 (to be more detailed) S3 (to be more detailed) Sept. N4: Impact of R00 architecture e.g. on MAP signalling

LCS support in the core network PS domain	N1: Layer 3 LCS signalling UE (MS) -SGSN (UMTS	
(in R00 architecture)	PS and GSM-GPRS)	
In interfere current for LCC	N4: MAP signalling for LCS R3: Iu development <i>Sept</i> .	
Iu interface support for LCS	- assistance data handling	
	- assistance data handring - to be further defined	
LCS in UTRA TDD	R2: UTRAN stage 2 Sept.	
	- exception procedures	
Work Item: "Support of Location Services in UTRA TDD"	- possible impact of new LCS service features	
CIRA IDD	R2: Radio Resource Management (for LCS TDD)	
	R1: Location measurements TDD <i>Sept.</i>	
	R3: Iur, Iub support for LCS measurements +results	
	TDD	
[LCS support in UTRAN:	R3 : [Iur transport of cell co-ordinates - to be included	
cell coverage based, R99]	in R99] June	
Advanced LCS methods	R2: LCS signaling UE-SRNC (TDD&FDD)	
- OTDOA-IPDL	R1: Location measurements FDD Sept.	
- assisted GPS	R3: Iur and Iub support for LCS measurements	
Work Item: "Support of Location Services in	+results FDD	
UTRA FDD"	R2, R3: Stage 3 specifications on assistance data	
LCS interoperation aspects	S2 and SMG2: Co-ordinated development of GSM	
	LCS Phase 2 and UMTS LCS	
	S2; SMG2; SMG12: Common LCS System and CN	
	stage 2 specification, combine 23.171 &03.71 add LCS	
	in GPRS and PS domain Sept.	
	[Separate GERAN LCS stage 2 specification based on	
	radio parts of 03.71, SMG2]	
	[Corresponding Stage 3 GSM specifications]	
LCS application interfaces	S1: (LCS-OSA) Service description July	
(LCS-OSA)	S2: Corresponding LCS-OSA stage 2 specification,	
(Related to service platforms)	23.171 <i>Sept</i> .	
	Possible enhancements in MExE support for LCS?:	
	S1: Impacts on 22.057	
	T2: Impacts on 23.057	
	N2: Possible enhancements in CAMEL Phase 4 for	
	LCS?:	
	S1: Impacts on 22.078	
	N2: Impacts on 23.078 &29.078	
	N5: Possible OSA support for LCS, imoacts on 29.198	
	&29.998	

		Universal Geographic Area Description (GAD)	S2: Possible update of 23.032 <i>Sept</i> .
TEI ⁸	TEI Common WI for all TSGs needs to be approved.		Applicable to all WGs.
Overall co-ordination and general issues	There are no features, building blocks and work tasks from the overall co-ordination, rather: Overall Co-ordination Vocabulary		

Deleted Work Items

This section reflects the WI deleted from previous version.

Optimisation of	Turbocharger (N1?)	[to be defined] <i>Dec</i> .
signalling.	• N1 internal WI	Proposal from N1 to delete the WI.
	postponed from R99, open whether part of	
[MOVE TO	R00 (SP-000169)	
DELETED]	Layer 3 Segmentation	[to be defined] <i>Dec</i>
	• N1, N4, R3 (?) WI	Proposal from N1 to delete the WI
	postponed from R99, open whether part of	
	R00 (SP-000169)	

Enhanced User	N1:
Identity	Procedures using encrypted IMSI
Confidentiality [MOVE TO	Response to paging with non-encrypted IMSI (roaming)
DELETED]	S2, R2, R3, N4

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⁸ To be used carefully!