

3GPP Work Plan – Cover page

Version 2001, March 13th

Introduction

This cover sheet contains 3 parts:

Part 1: Specific comments for this version

Part 2: General recurrent information

Part 3: History

The last version of the Work Plan and all the related documents (cover page, PDF views, etc) are available at:

ftp://ftp.3gpp.org/information/work_plan

For comments on a given WI, contact the MCC support of the given WI's responsible WG/TSG (mapping "WG/TSG to MCC support" and MCC e-mail addresses available at:

http://www.3gpp.org/About_3GPP/structure.htm).

For comment on a Feature, contact the feature's responsible MCC support.

For general comments, contact Alain Sultan at: alain.sultan@etsi.fr, mentioning in the e-mail subject "General comment on the Work Plan".

Specific comments for this version

Main changes between version February 16th and March 13th

Changes from the following Working Groups have been incorporated:

R1, R2, R3, R4

S2, S3, S4

N2, N3, N4

T2, T3

More details are provided bellow on changes from R1, R2, R3, T2, T3, N2, N3, S2 and S3.

N1 has provided its latest changes in January, S1 in November, S5 and N5 in February, T1 in December.

R1 changes

DELETED: Unique ID 1466, Smart antenna Rel4	No	WG RAN1	Yes	Mon
12/03/01RANimp-SmartATSG	Mon 14/08/00	Fri 30/03/01	25%	RAN_Wis
G. Yang, CWTS				

R2 changes

5 Mar 2001: splitting off of IPDL for TDD for Rel-4 agreed by R2 with respect to Unique ID 2457, UE positioning enhancements - other methods	Rel5	No	WG RAN2	Yes	Mon
12/03/01LCS1-UEpos-enhWG	Mon 28/08/00	Fri 28/12/01	24%		RAN_Wis
M. Beckmann, Siemens					

R3 changes

Unique ID 1995, Migration to modification procedures	Rel4	No	WG RAN3	No
ETRAN-MigrMod	TSG	Mon 02/10/00	Fri 30/03/01	50%
RAN Wis T. Yoshimura, Japan Telecom				

Change of name to: Transport bearer modification procedure on Iub, Iur, and Iu
100% complete

T2 changes

The following WI is proposed for deletion:

917 Alternatives to AT commands (TBD)

T2 agreed to move

1831 vObjects and Other Constructs for Use in Data Synchronisation
from Rel4 to Rel5 which I reflected in the work plan. Related to this I changed the Release of
1829 Wide Area Data Synchronisation to "NA" because it includes Rel4 and Rel5 WTs. Did I
right?

T2 agreed to delete the following WTs from Rel4 (feature MExE enhancements)

1816	FS on Support of (U)SAT/OSA/CAMEL interaction to provide advance services			No
	WG T2			
1813	FS on AT command support	No	WG T2	
1811	Support of the Terminal parts of the VHE /User Profile		No	WG T2

T3 changes

DELETED: Unique ID 1562, UICC/USIM database specification	Rel4	No	WG T3	Yes
UICC1-DataB TSG Mon 11/12/00	Fri 23/03/01	0%	TP-99210	
Jean-Francois Rubon (Gemplus)		8/3/2001: Work item deleted at T3 #17.		

N2 changes

CAMEL4 is a Rel-5 feature, and SA1 have almost completed the service requirements. The SA1 CAMEL ad hoc will no longer conduct separate meetings, but be part of the regular SA1 meetings. For the CN2#17 meeting new service requirements were introduced as result of recent SA1 agreements. This are introduced as 3 new work tasks under CAMEL4 as follows:

- **Enhancements of dialled services**
- **Provision of location information of called subscriber**
- **Notification of GPRS mobility management**

The 3 worktasks were discussed and progressed during CN2#17.

Other work tasks under the feature CAMEL phase 4 were modified regarding % of completion (2 WT's almost complete) and dates to fit the Rel-5 timeschedule.

No work is done on worktask 'Impact on CAMEL stage 3' (ID1288) under the feature 'Provisioning of IP-based multimedia services'. Should be clarified what interaction exists with ID2017 'CAMEL applicability to media streams like VoIP'.

For Rel-4 under the feature 'Evolutions of the transport in the CN' :

ID2018: CN2 has completed the CAP part.

N3 changes

WID: UID 2047, WI_CODE IMS-CCR-IWCS, WI Title "Interworking between IM CN subsystem and CS networks "

Modification: Move back end date to December 2001
Change to WI Title
Change to % complete.
Added missing TS number

WID: UID 2048, WI_CODE IMS-CCR-IWIP , WI Title "Interworking between IM CN subsystem and IP networks"

Modification: Move back end date to December 2001
Change to WI Title

Change to % complete.
Added missing TS number

WID: UID 1325, WI_CODE CSSPLIT , WI Title " Standardisation of protocols (control & user planes) over Nb interface"

Modification: Change to WI Title
Change to % complete.

WID: UID 1655 [inc. 1336 1337], WI_CODE CSM-SWAP , WI Title " Circuit-switched multimedia swap and fallback "

Modification: **CN3 propose to delete this WI, as no work will be done in this area.**

WID: UID 1524, WI_CODE GTT-IW , WI Title "GTT Interworking "

Modification: CN3 consider the present solution requires no contribution from CN3. **The CN3 WI can be deleted** (poss. later revived)

WID: UID 1359, WI_CODE BMWPN-SMWOP , WI Title " Service Modification without pre-notification "

Modification: CN3 expect the SA1 WID to be deleted and CN3 will request CN#11 to **Delete this CN3 WID**

S2 changes

Unique ID 1678: Stage 2 of IP Transport of CN protocols (e.g., CAP, MAP) (in Evolutions of the transport in the CN) has been deleted: it's now useless: Stage 3 is now completed and no Stage 2 has ever been started.

Unique ID 1364: Bearer Modification because of radio conditions. Proposed to be deleted. No new work ever started on this issue.

Note that the complete Feature "Bearer Modification without pre-notification" is proposed for deletion.

Unique ID 1339: Stage 2 of CS multimedia services has been deleted. No company involved, and no new issue to be done for Rel-4.

Note that the complete Feature "CS multimedia services" is proposed for deletion.

Unique ID 1557: QoS for CS services at HOs (inter-MS and SRNS change): Complete feature proposed to be deleted. Check SA and GERAN opinions. No new work ever started on this issue.

Unique ID 1614: Protocol impacts of FS on Transport and control separation in the PS CN domain of Evolutions of the transport in the CN (WG CN4):

Deleted as the stage 2 of "FS on Transport and control separation in the PS CN domain" has concluded that such feature is not needed.

S3 changes

Deleted: Unique ID 1612, General security issues

It should be replaced by new work items at SA#9 (home control and MS triggered authentication).

Detailed changes

The detailed changes are provided in the "notes" field of the modified WIs.

General recurrent information

This paragraph contains recurrent information provided to the reader not familiar with the 3GPP Work Plan.

General description

The Work Plan is a living document, aiming at providing co-operations between all the 3GPP TSGs and WGs to help them reaching common targets.

These targets are called “**Features**”, and are 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. The features are divided into “**Building Blocks**”, a BB being 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. The Building Blocks are divided into “**Work Tasks**”, a WT being by definition handled by 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.

These definitions are extracted from SP-000109.

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.

A **Work item** is a generic term to refer to a *feature, building block or work task*, i.e. all the lines of the Work Plan are work items. A full description of the a work item can be found in the 3GPP Working Procedures, available at http://www.3gpp.org/About_3GPP/3gpp_wp.zip.

The Work Plan is provided in the form of a Gantt chart: the left part contains the names and attributes of the Work Items, the right part contains a calendar view reflecting the work progress (blue and grey lines apply to foreseen tasks, black lines for completed tasks).

The indentation of WI names reflects the hierarchical level in the tree structure (Features, Building Blocks, and Work Tasks).

Attributes applicable to a WI

From the Work Plan perspective, a WI is fully characterised by the following set of attributes:

1. Unique ID
2. Name
3. Release (based on the completion date). It applies to non-splittable features. If the feature is splittable, it applies to each individual Building Block composing the feature, provided that the Building Blocks are non-splittable. It does not apply to Feasibility Studies, Testing nor Charging Activities.
4. Splittable: defines whether the WI has to be considered as a single block or if it can be realised onto different releases
5. Acronym
6. Resource name: defines the responsible WG or TSG
7. Modified (see next section)
8. Modified since last TSG (see next section)
9. Start
10. Finish
11. % completed
12. Impacted TS and TR
13. Approval Level: MCC<CHAIR<WG<TSG. Each level can delete the proposal from the levels bellow. Only TSG Approved Wis are officially approved. All the other Wis are proposals, more or less stable according to the approval level.
14. Last modif, containing the date of the last modification. Note: this field has been recently added. The value has been initialised to April, 1st.
15. Hyperlink (to the proposed/approved WI coversheet)
16. WI rapporteur name
17. WI rapporteur e-mail
18. MCC responsible: defines who in MCC is responsible in monitoring the overall Feature.
19. Notes (free field).

The fields Start, Finish and % completed are calculated for summary tasks.
For better readability, only some of these attributes are shown in the PDF views.

How the changes on the Work Plan are tracked?

The changes are tracked at two level: a global one, stressing out the overall changes of the Work Plan, and a more detailed one, making use of the “notes” field.

Global level

The global level is a text of some paragraphs listing the main changes. For readability reasons, the global level is not part of the MS Project Work Plan but is contained in this present Work Plan cover page.

The global level shall at least:

- Report creation and deletion of Features and Building Blocks. It is not requested to mention the creation and deletion of Work Tasks (but this can be done if judged relevant by the MCC responsible person).

The global level is updated before each set of plenary meetings.

Detailed level

The detailed level is a set of comments provided in the “notes” field text of each modified WI (a WI is identified by its Unique ID).

Even at the “detailed level”, not all the modifications have to be mentioned: some fields are by nature subject to constant updates (e.g. “% completed”), so it would be a waste of time to keep track of these changes.

The fields subject to change tracking are the following ones:

- Name
- Release
- Splitable (defines whether the WI has to be considered as a single block or if it can be realised onto different releases)
- Acronym
- Resource name (defines the responsible WG or TSG)
- Finish date

The other ones -listed bellow- are not subject of change tracking. Change tracking on these ones is up to the MCC responsible person. These are:

- % completed
- Impacted TS and TR
- Level of Approval (MCC<CHAIR<WG<TSG).
- Hyperlink (to the proposed/approved WI coversheet)
- WI rapporteur name
- WI rapporteur e-mail
- MCC responsible: defines who in MCC is responsible in monitoring the overall Feature.
- Notes (free field).
- Start date

The detailed level is updated each time a line is modified or created. In addition, a new field called “last modif” has been created (initialised to April, 1st) to provide the date of the latest modification of the WI.

History

This section is reset after each plenary meeting.

Main changes between version Dec. 13th and Dec. 19th

The two errors mentioned at the closing of TSG SA#10 have been corrected, i.e.:

- IP Transport of CN protocols (e.g., CAP, MAP) (Unique ID 859) is changed from Rel5 to Rel4
- Wide Area Data Synchronisation (Unique ID 1829) is also changed from Rel5 to Rel4.

Main changes between version Dec. 19th and February 16th

CN WG1:

ID 2233: change the WI title, and add 23.218 as subtask. New link of the agreed WID in TSGN#10.

ID2101: dates are not realistic "Emergency call recalling capability enhancement" TSG#14. The feature should be removed from the WID. SA1 need to be informed. Remove the Work Task.

ID1317: end date is to be aligned with TSG#14.

ID1321: Emergency call recalling capability enhancement for CS Is there any changes for Rel-4? We want to revise the WI to remove the definition of it. It is defined in 22.010

It will not be developed in CN1, the rapporteur will revise the WI. SA1 need to be informed.

Stage 1 Crs will be propose to the next SA1 meeting by private companies at the intention of changing the scope of the WI which has been agreed in CN1. For both ID2101 and ID1321 remove Work Task.

ID2225: change the end date to align with TSG#14.

ID1322: no comments if we had contributions!

ID1360: it shows 0% completion and no work has been done in CN1. No contribution is foreseen delete from the work plan

ID1359: ask the plenary if this feature is necessary at all!

ID1656: We need to find out and report the accuracy of this Wt, we need to discuss this in the next meeting. A summery is required to be reported to TSGN#11.

ID526 Summery for this WI status is required to be presented to the next TSGN#11. What else is needed for CN1 before we can say it is complete.

ID523 add a new task The WID need to be reviewed to see if CN1 is included and CN1 specs as well.

ID1545: we need SA2 to tell us what are the requirements. Is there any task for CN1 in ID 1545, GMM and SM aspects of QoS? ID1551, ID1659, ID1660 what are these for?

ID2099: there will be some contributions in this area, we will add a new WT saying stage 3. Date to end the task is end of March.

ID2248: fix the start time and finish time is TSGN#11.

ID2231: not splitable.

ID1679: add CN1 WT as BSSAP+. The WID need to be revised to cover the change.

ID2230 Advanced Speech Call Items title need to be changed, where the WI is called Advanced Speech Call Items enhancement.

A TEI5 WI is needed.

LCS WID need updating by SA2. It still refers to R00 and CN1 need to be added.

CN WG2:

Unique ID	Title	Release	Notes of progress
2018	CAP over IP	REL-4	CN4 is working on this. On schedule. CN2 will follow the principles decided in CN4. % completed increased until 15/1.
2014	CAMEL4 / Stage 1	REL-5	Not an CN2 issue
	CAMEL4 / Interactions with Optimal Routing	REL-5	On schedule. Increase completion rate so that it is seen to be according to schedule. % completed increased until 15/1.
	CAMEL4 / Call Party Handling	REL-5	Some progress. <No increase

			incompletion rate.
2013	CAMEL4 / Mid call procedure for MO and MT calls	REL-5	On schedule. Increase completion rate so that it is seen to be according to schedule. % completed increased until 15/1.
	CAMEL4 / Provisioning of IP-based multimedia services	REL-5	On standstill, no progress. The service requirement & architecture is open.
	CAMEL4 / CAMEL applicability to media streams like VoIP	REL-5	On standstill, no progress. The service requirement & architecture is open.
2016	CAMEL4 / CAMEL control over MT SMS	REL-5	On schedule. Increase completion rate so that it is seen to be according to schedule. % completed increased until 15/1.
2015	CAMEL4 / Inclusion of flexible tone injection	REL-5	On schedule. Increase completion rate so that it is seen to be according to schedule. % completed increased until 15/1.
	CAMEL4 / Charging notification to the CSE	REL-5	On standstill, no progress. The service requirement & architecture is open.

CN WG3 (N3#15):

For [U-ID 2047] "Multimedia domain and CS networks Interworking" - changed the rapporteur, and removed requirement for TR xx.xxx.

For [U-ID 2048] "Multimedia domain and IP networks Interworking" - changed the rapporteur

For [U-ID 1325] "Standardisation of protocols (control & user planes) over reference points between MGWs" - changed the % complete to 50%.

For [U-ID 1655] "Circuit-switched multimedia swap and fallback

" - IMPORTANT note added on the status of this WI. Pushed back from Rel-4 to Rel-5.

For [U-ID 1359] "Service Modif without Pre-notif" - IMPORTANT NOTE ADDED "No more work will be done on this WID SA1 are requested to delete the requirements"

For [U-ID 2205] "IWF at the EDGE" - IMPORTANT NOTE ADDED "CN3 has no intention to pursue this WI further due to the lack of rapporteur and contributions"

RAN WG2:

- ETRAN-RABSE (RAB support enhancement - no ROHC):

- Moved to RAN improvements

- Acronym corrected to RANimp-RABSE

- ETRAN-RABSE (RAB support enhancement - ROHC part):

- Moved to RAN improvements

- Release corrected to Rel4

- Acronym corrected to RANimp-RABSE

- <no acronym> (Evolutions of the transport in the UTRAN//Logical Test Interface, Specification, R4 evolution of UTRAN):

- Start and finish dates moved to April-June period after consultation with T1 Secretary

- TI-ATC (EMMI Specification):

- Start and finish dates moved to April-June period after consultation with T1 Secretary

- LCRTDD-Uerac (UE radio access capability):

- Acronym corrected to LCRTDD-Uerac

- ID 1558 <no acronym> (QoS for CS services at HOs (inter-MS-C and SRNS change)//UTRAN aspects):

- Deleted after consultation with S2 Secretary

- <no acronym> (Evolutions of the transport in the UTRAN//Logical Test Interface, Specification, R4 evolution of UTRAN):
 - Deleted in accordance with decision in T1

- TI-ATC (EMMI Specification):
 - Deleted in accordance with decision in T1

- <no acronym> (Tandem Free aspects for 3G and between 2G and 3G systems// Tandem Free AMR// Implementation// in UTRAN):
 - Deleted after consultation with R3 and S4

RAN WG3:

The following lines are deleted:

767: (TB Confirmed) Bearer establishment between MSC and RNC and between RNC and Node B
897: (TB Confirmed) Notification of the Codec mode to RAN, Iu UP control procedure (rate control, initialization, time alignment)

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Leve	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2044	VERSION 2001 March 13th		No																		
2	1462	"CTRL + a" to display all the 3GPP fields		No																		
3	1463	If MS Project crashes, hide the "hyperlink" field		No																		
4	2058			No																		
5	96			No																		
6	2	Evolutions of the transport in the UTRAN	NA	Yes	SG RAN	ETRAN	TSG															
7	625	IP transport in the UTRAN	Rel4	No	/G RAN3	ETRAN-IPtrans	TSG															
8	12	QoS optimisation for AAL2 connections over lub and	Rel4	No	/G RAN3	ETRAN-QoSAAL2	TSG															
9	1995	Transport bearer modification procedure on lub, lur,	Rel4	No	/G RAN3	ETRAN-MigrMod	TSG															
10	2257	Evolution of transport in UTRAN and GERAN	Rel4	No	/G RAN3	ETRANG	TSG															
11	2258	Addition of transport mechanisms other than ATM for lu - Identifi		No	/G RAN3	ETRANG	TSG															
12	2259	Addition of transport mechanisms other than ATM for lu - Specif		No	/G RAN3	ETRANG	TSG															
13	1834	Conformance Test Aspects		No	WG T1																	
14	2208	Testing RAB support enhancements		No	WG T1	CT-RABS?																
15	4	Evolutions of the transport in the CN	NA	Yes	WG CN4	CNTRSP																
16	859	IP Transport of CN protocols (e.g., CAP, MAP)	Rel4	No	WG CN4	SS7IP																
17	1679	Stage 3		No	WG CN4	SS7IP																
18	2018	CAP		Yes	WG CN2	SS7IP	WG															
19	2019	MAP		No	WG CN4	SS7IP																
20	2253	BSSAP+		No	WG CN1	SS7IP-BSSAP+	WG															
21	2455	FS on Usage of SUA		No	WG CN4	SS7IP																
22	1513	FS on Transport and control separation in the PS CN		No	WG SA2		TSG															
23	1615	Architectural impacts		No	WG SA2		WG															
24	1216	Improvements of Radio Interface	NA	Yes	SG RAN	RInImp	TSG															
25	1470	Improvement of inter-frequency and inter-system m	Rel5	No	/G RAN1	RInImp-lfIsM	TSG															
26	1471	Base station classification	Rel4	No	/G RAN4	RInImp-BSCClass	TSG															
27	1476	FDD Base station classification		No	/G RAN4	RInImp-BSCClass-FC	TSG															
28	1477	TDD Base station classification		No	/G RAN4	RInImp-BSCClass-TC	TSG															
29	1217	Hybrid ARQ II/III	Rel5	No	/G RAN2	RInImp-HARQ	TSG															

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001					
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
30	1218	Improved usage of downlink resource in FDD for CCTrCH	Rel5	No	/G RAN2	RInImp-CCTrCH	TSG																		
31	1507	Terminal Power Saving features	Rel4	No	/G RAN1	RInImp-TPS	TSG																		
32	1509	UTRA repeater specification (master)	Rel4	No	/G RAN4	RInImp-REP	TSG																		
33	1994	DSCH power control improvement in soft handover	Rel4	No	/G RAN1	RInImp-DSCHsho	TSG																		
34	1996	UMTS 1800	Rel4	No	/G RAN4	RInImp-UMTS18	TSG																		
35	1506	FS on Radio link performance enhancements		No	/G RAN1	RInImp-Rlperf	TSG																		
36	1219	FS on High Speed downlink packet access		No	/G RAN2	RInImp-HSDPA	TSG																		
37	1221	FS on USTS		No	/G RAN1	RInImp-USTS	TSG																		
38	1510	FS on improved common DL channel for Cell-FACH s		No	/G RAN2	RInImp-DLCFACH	TSG																		
39	1997	FS on UE antenna efficiency test method performanc		No	/G RAN4	RInImp-UEAnTM	TSG																		
40	1839	Conformance Test Spec. improvements in Radio Inte		No	WG T1																				
41	2210	Testing improvement of inter-frequency and inter-system measu		No	WG T1																				
42	2211	Testing Hybrid ARQ II/III		No	WG T1																				
43	2212	Testing Improved usage of downlink resource in FDD for CCTrCH		No	WG T1																				
44	2213	Testing Terminal Power saving features		No	WG T1																				
45	2214	Testing DSCH power control improvement in soft handover		No	WG T1																				
46	2215	Testing UMTS 1800		No	WG T1																				
47	1222	Low Chip Rate TDD option	Rel4	No	/G RAN1	LCRTDD	TSG																		
48	1223	Physical layer		No	/G RAN1	LCRTDD-Phys	TSG																		
49	1224	Layer 2 and layer 3 protocol aspects		No	/G RAN2	LCRTDD-L23	TSG																		
50	1225	RF radio transmission/reception, system performanc		No	/G RAN4	LCRTDD-RF	TSG																		
51	1227	UE radio access capability		No	/G RAN2	LCRTDD-UErac	TSG																		
52	1228	lub/lur protocol aspects	Rel4	No	/G RAN3	LCRTDD-lublur	TSG																		
53	2262	Low chiprate TDD interworking with GERAN		No																					
54	2263	Handover and Cell Selection / Reselection to UTRA 1.28 Mcps TC		No																					
55	1911	Start Testing		No	MLST																				
56	2103	Conformance Test Aspects - Low Chip Rate TDD		No	WG T1																				
57	2216	Testing Physical Layer		No	WG T1																				
58	2217	Testing Layer 2 and layer 3 protocol aspects		No	WG T1																				

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
59	2218	Testing RF Radio Transmission and Reception		No	WG T1																	
60	2219	Testing UE radio access capability		No	WG T1																	
61	9	RAN improvements	NA	Yes	SG RAN	RANimp	TSG															
62	656	RRM optimization for lur and lub	Rel4	No	/G RAN3	RANimp-RRMopt	TSG															
63	655	Node B synchronisation for TDD	Rel4	No	/G RAN1	RANimp-NBsync	TSG															
64	624	RAB support enhancement - no ROHC	Rel5	No	/G RAN2	RANimp-RABSE	TSG															
65	2206	RAB support enhancement - ROHC part only	Rel4	No	/G RAN2	RANimp-RABSE	WG															
66	1680	Header compression removal/stripping in the RAN	Rel5	No	SG RAN																	
67	1686	Unequal error protection in PS domain in the RAN	Rel5	No	SG RAN																	
68	1912	Start Testing		No	MLST																	
69	2102	Conformance Test Aspects - RAN Improvements		No	WG T1																	
70	2220	Testing Smart antenna		No	WG T1																	
71	2221	Testing Node B synchronisation for TDD		No	WG T1																	
72	2222	Testing Radio access bearer support enhancements		No	WG T1																	
73	1273	Provisioning of IP-based multimedia services	Rel5	No	WG SA1	IMS	TSG															
74	1274	Call control and roaming to support IP-based multim		No	WG SA2	IMS-CCR	TSG															
75	1633	Stage 1		No	WG SA1	IMS-CCR																
76	1514	Stage 2 (Architecture and Main flows)		No	WG SA2	IMS-CCR	TSG															
77	1277	FS on Impacts on HSS		No	WG CN4	IMS-CCR																
78	2233	SIP Call Control protocol for the IM CN Subsystem		No	WG CN1	IMS-CCR	TSG															
79	1998	IP multimedia subsystem signalling flows		No	WG CN1	IMS-CCR	TSG															
80	1278	IP multimedia subsystem stage 3		No	WG CN1	IMS-CCR	TSG															
81	2255	IP Multimedia (IM) Session Handling; stage 2		No	WG CN1	IMS-CCR	TSG															
82	1673	MLST: Stage 3 for basic calls		No	MLST																	
83	1804	SIP interactions with the Rel4 Supl Services		No	WG CN1	IMS-CCR																
84	1650	Check if any		No	WG SA1	IMS-CCR																
85	1651	Stage 3 if applicable		No	WG CN1	IMS-CCR																
86	1280	SIP SS and relationship to Mg, Mw and Cx		No	WG CN4	IMS-CCR																
87	1281	Multimedia Capabilities		No	WG CN1	IMS-CCR																

ID	Unique	Name	Relat	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
88	1282	Terminal capabilities		No	WG CN1	IMS-CCR																
89	1806	Terminal capabilities and Interactions on running multimedia		No	WG T2	IMS-CCR																
90	1805	Network capabilities		No	WG CN1	IMS-CCR																
91	1285	Network capabilities (N4 aspects)		No	WG CN4	IMS-CCR																
92	1286	CSCF – HSS (Cx) applications and services (SCP)		No	WG SA2	IMS-CCR																
93	1515	Stage 2 flows		No	WG SA2	IMS-CCR																
94	2021	Stage 2 flows (N4) (see note)		No	WG CN4	IMS-CCR																
95	2023	Impacts from CAMEL		No	WG CN4	IMS-CCR																
96	1288	Impact on Camel Stage 3		No	WG CN2	IMS-CCR																
97	1289	Impact on MAP		No	WG CN4	IMS-CCR																
98	2024	Stage 3 protocol on Cx		No	WG CN4	IMS-CCR																
99	1290	Addressing, Identities		No	WG SA2	IMS-CCR																
100	1291	Architectural issues		No	WG SA2	IMS-CCR																
101	1292	Impact on HSS		No	WG CN4	IMS-CCR																
102	1294	Interworking with other multimedia protocols		No	WG CN3	IMS-CCR																
103	1295	Requirements		No	WG SA1	IMS-CCR																
104	1296	Impact on MM/CC/SM		No	WG CN1	IMS-CCR-IWMM																
105	2047	Interworking between IM CN subsystem and CS networks		No	WG CN3	IMS-CCR-IWCS	TSG															
106	2048	Interworking between IM CN subsystem and IP networks		No	WG CN3	IMS-CCR-IWIP	WG															
107	1913	Start Testing		No	MLST																	
108	1844	Conformance Test Aspects - Provisioning of IP-based		No	WG T1	IMS-TEST																
109	1298	Access Security for IP-based services		No	WG SA3	IMS-ASEC	TSG															
110	1299	Lawful interception		No	WG SA3	IMS-LI	TSG															
111	1300	RAN improvements and evolution of the bearers on t		No	SG RAN	IMS-RAN																
112	1597	(Copy) Ensure reliable QoS for PS domain and IM sul		No	WG SA2																	
113	1303	(Copy) Charging and OAM&P		No	WG SA5	IMS-OAM																
114	1598	(Copy) AMR-WB		No	WG SA4																	
115	1305	Roaming between IP multimedia and CS domain net		No	WG CN4	IMS-ONCS																
116	1457	Roaming requirements		No	WG SA1		TSG															

ID	Unique	Name	Relat	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
117	1306	Stage 2		No	WG SA2		TSG																
118	1307	Stage 2 review		No	WG CN4																		
119	1456	Internetwork roaming aspects		No	?		TSG																
120	2227	MExE interactions		No	WG T2																		
121	2228	MMS interactions		No	WG T2		WG																
122	1310	Support of VHE/OSA by Rel4 network entities and proc		No	WG CN5	IMS-ONOSA	TSG																
123	1732	Number portability in IM subsystem		No	WG CN4	IMS-MNP																	
124	2036	Multimedia codecs and protocols for conversational		No	WG SA4	IMS-CODEC	TSG																
125	2039	Codecs		No	WG SA4		TSG																
126	2040	performance characterisation of codec		No	WG SA4		TSG																
127	2038	protocols		No	WG SA4		TSG																
128	1539	Transparent End-to-End PS mobile streaming appl	Rel4	No	WG SA4	PSTREAM	TSG																
129	1652	Emergency call enhancements	NA	Yes	WG CN1	EMC1	WG																
130	1653	For IP & PS based calls	Rel5	No	WG CN1	EMC1-PS	TSG																
131	1314	Service Requirements for IP-based emergency calls		No	WG SA1	EMC1-PS																	
132	1315	SIP emergency calls and packet emergency calls signalling flow		No	WG CN1	EMC1-PS																	
133	1316	Stage 2 for emergency calls and packet emergency calls in gener		No	WG SA2	EMC1-PS																	
134	1317	Distinction of emergency call types to different emergency servi		No	WG CN1	EMC1-PS																	
135	1646	Stage 3 for emergency calls and packet emergency calls in gener		No	WG CN1	EMC1-PS																	
136	1605	(Copy2) Ensure reliable QoS for PS domain and IM subsystem		No	WG SA2																		
137	1654	For CS based calls	Rel4	No	WG CN1	EMC1-CS	TSG																
138	1320	Distinction in CS domain of emergency call types to different em		No	WG SA1	EMC1-CS																	
139	1999	Distinction in CS domain of emergency calls to different emerger		No	WG CN1	EMC1-CS																	
140	2224	Conformance Test Aspects - Emergency call enhanc		No	WG T1																		
141	2225	Testing Stage 3 for emergency calls and packet emergency call		No	WG T1																		
142	2226	Testing CS based emergency calls		No	WG T1																		
143	1322	Enable bearer independent CS architecture	Rel4	No	WG SA2	CSSPLIT	TSG																
144	1323	Enable bearer-independent call control		No	WG CN4	CSSPLIT	WG																
145	1516	Architecture and Stage 2 description on 23.002		No	WG SA2	CSSPLIT																	

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
146	1325	Standardisation of protocols (control & user planes) over Nb int		No	WG CN3	CSSPLIT	TSG																
147	1326	Standardisation of protocols over reference points between MS		No	WG CN4	CSSPLIT	TSG																
148	1616	Standardisation of detailed stage 2 description		No	WG CN4	CSSPLIT	TSG																
149	1327	Bearer control between MSC server and MGW		No	WG CN4	CSSPLIT	TSG																
150	1328	stage 3 - protocol issues		No	WG CN4	CSSPLIT	TSG																
151	1329	stage 3 - parameter value issues		No	WG CN3	CSSPLIT																	
152	1331	Lawful interception		No	WG SA3	CSSPLIT																	
153	1332	Bearer Independence and codec control issues		No	WG SA4	CSSPLIT																	
154	1918	Start Testing		No	MLST																		
155	2052	Conformance Test Aspects - Enable bearer independ		No	WG T1	CSSPLIT-TEST																	
156	1847	UE Conformance test spec., Bearer independent CS, Protocol		No	WG T1	CSSPLIT-TEST																	
157	1848	UE Conformance test spec., Bearer independent CS, TTCN		No	WG T1	CSSPLIT-TEST																	
158	1333	DEL?: CS multimedia services	Rel4	No	WG SA2	CSM																	
159	1338	Stage 1		No	WG SA1	CSM																	
160	1655	Circuit-switched multimedia swap and fallback		No	WG CN3	CSM-SWAP																	
161	1335	Call control and signalling aspects		No	WG CN1	CSM-SWAP-CC																	
162	1336	Transport aspects		No	WG CN3																		
163	1337	inband signalling		No	WG CN3																		
164	1920	Start Testing		No	MLST																		
165	2056	Conformance Test Aspects - CS multimedia services		No	WG T1	CSM-TEST																	
166	1849	UE Conformance test spec. CS multimedia services, Protocol		No	WG T1																		
167	1850	UE Conformance test spec. CS multimedia services, TTCN		No	WG T1																		
168	1340	Facsimile	Rel4	No	WG SA1	FAX	TSG																
169	1341	Real Time Fax		No	WG SA2	FAX-RT																	
170	1808	Terminal capabilities, AT commands		No	WG T2	FAX-RT																	
171	1343	Signalling aspects (e.g. ICM)		No	WG CN1	FAX-RT																	
172	1648	Service provision		No	WG CN3	FAX-RT																	
173	1345	Review whether service/stage 1 aspects need to be aligned		No	WG SA1	FAX-RT																	
174	1346	Review whether architecture/stage 2 aspects need to be aligne		No	WG SA2	FAX-RT																	

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
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175	2041	Start Testing		No	MLST																	
176	1851	Conformance Test Aspects - Facsimile		No	WG T1																	
177	1517	Global Text Telephony	NA	Yes	WG SA2	GTT	TSG															
178	2240	Minimum solution	Rel4	No																		
179	1634	Stage 1		No	WG SA1	GTT	TSG															
180	1519	Stage 2		No	WG SA2	GTT	TSG															
181	2234	Specification of Cellular Text telephone Modem		No	WG SA4	GTT-CTM																
182	2238	General description and C-code		No	WG SA4	GTT-CTM																
183	2237	Minimum Performance requirements		No	WG SA4	GTT-CTM																
184	2239	Improvements of GTT	Rel5	No																		
185	1350	Activation and transport		No	WG SA2	GTT																
186	1520	SIP and H.324 Activation and transport		No	WG SA2	GTT																
187	1521	Data Channel Activation and transport		No	WG SA2	GTT																
188	1523	Selection of transport method		No	WG SA2	GTT																
189	1524	Interworking		No	WG CN3	GTT-IW																
190	1809	Terminal Aspects		No	WG T2	GTT	TSG															
191	1357	USIM Aspects		No	WG T3	GTT																
192	2096	GTT using CS multimedia telephony		No	WG SA4	GTT																
193	1915	Start Testing		No	MLST	GTT																
194	1852	Conformance Test Aspects - Global Text telephony		No	WG T1	GTT																
195	1526	DEL?: Bearer Modification without pre-notification	Rel4	No	WG SA1	BMWPN	TSG															
196	2223	Testing Support of Bearer modification without pre-notification		No	WG T1																	
197	1635	Stage 1		No	WG SA1	BMWPN																
198	1359	Service Modification without pre-notification		No	WG CN3	BMWPN-SMWOP	TSG															
199	1361	Interworking function, TAF		No	WG CN3	BMWPN																
200	1362	Out of band Transcoder Control		No	WG CN4	BMWPN																
201	1363	AT commands		No	WG T2	BMWPN																
202	1364	deleted at SA#11: Bearer Modification because of radio link failure		No	WG SA2	BMWPN																
203	1921	Start Testing		No	MLST	BMWPN-TEST																

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204	2057	Conformance Test Aspects		No	WG T1	BMWPN-TEST																
205	1853	UE Conformance test spec. Bearer modification, Protocol		No	WG T1	BMWPN-TEST																
206	1857	UE Conformance test spec. Bearer modification, TTCN		No	WG T1	BMWPN-TEST																
207	1367	VHE enhancements	NA	Yes	WG SA1	VHE1	TSG															
208	1368	Detailed definition of the VHE user profile	Rel5	No	WG SA2	VHE1-USERP	WG															
209	1373	Stage 1		No	WG SA1	VHE1-USERP	WG															
210	1404	Stage 2		No	WG SA2	VHE1-USERP	WG															
211	2123	Enhanced UserProfileManagement		No	WG CN5	VHE1-USERP	TSG															
212	2104	Extensions to existing (and possibly new) toolkits	Rel5	Yes	WG SA2	VHE1-TLKT1	WG															
213	2105	Stage 1		No	WG SA1	VHE1-TLKT1	WG															
214	2106	Stage 2		No	WG SA2	VHE1-TLKT1	WG															
215	2107	Stage 3 (wait for stage 2)		No		VHE1-TLKT1	WG															
216	2108	Interaction between toolkits to enable IP multimedia	Rel5	Yes	WG SA2	VHE1-IMS	WG															
217	2109	Stage 1		No	WG SA1	VHE1-IMS	WG															
218	2110	Stage 2		No	WG SA2	VHE1-IMS	WG															
219	2111	Stage 3 (wait for stage 2)		No		VHE1-IMS	WG															
220	2112	Transparent roaming for services	Rel5	Yes	WG SA2	VHE1-RMG	WG															
221	2113	Stage 1		No	WG SA1	VHE1-RMG	WG															
222	2114	Stage 2		No	WG SA2	VHE1-RMG	WG															
223	2115	Stage 3 (wait for stage 2)		No		VHE1-RMG	WG															
224	1637	OSA enhancements	NA	Yes	WG SA1	OSA1	WG															
225	2120	General Stage 2		No	WG SA2	OSA1	WG															
226	1424	Interactions OSA - e-commerce	Rel4	No	WG SA2	OSA1-ECOM	WG															
227	1425	Stage 1		No	WG SA1	OSA1-ECOM	WG															
228	1529	Stages 2 and 3		No	WG CN5	OSA1-ECOM	TSG															
229	1429	OSA APIs for MuMa CC	Rel5	No	WG SA2	OSA1-CSCF																
230	1430	Stage 1		No	WG SA1	OSA1-CSCF																
231	1530	Stages 2 and 3		No	WG CN5	OSA1-CSCF	TSG															
232	1419	OSA security	Rel5	No	WG SA3	OSA1-SEC	TSG															

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
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233	2121	Stage 1		No	WG SA1	OSA1-SEC																
234	1420	Stage 2		No	WG SA2	OSA1-SEC																
235	1421	Stage 3		No	WG SA3	OSA1-SEC																
236	1422	security related SCF(s) definition		No	WG CN5	OSA1-SEC	TSG															
237	1423	(possibly) changes required from supporting platforms, e.g. gsm		No	WG SA3	OSA1-SEC																
238	1621	impact on terminal		No	WG T2	OSA1-SEC	WG															
239	1433	Retrieval of Terminal capabilities	Rel5	No	WG SA2	OSA1-TC																
240	1434	Stage 1		No	WG SA1	OSA1-TC																
241	1436	Stages 2 and 3		No	WG CN5	OSA1-TC	TSG															
242	2122	Provisioning of the terminal capabilities		No	WG T2	OSA1-TC																
243	1786	LCS - OSA interfaces (!)		No	WG SA1	OSA1-LCSI	WG															
244	1787	Stage 1		No	WG SA1	OSA1-LCSI	WG															
245	2124	Stage 2		No	WG SA2	OSA1-LCSI	WG															
246	1788	Stage 3		No	WG CN5	OSA1-LCSI	TSG															
247	2116	(copy) Charging and OAM&P (!)		No	WG SA5	OSA1-OAM	TSG															
248	1638	CAMEL phase 4	Rel5	No	WG SA1	CAMEL4																
249	1461	Service requirements		No	WG SA1	CAMEL4																
250	2011	Charging notification to the CSE		No	WG CN2	CAMEL4-CNCNE																
251	2012	Call Party Handling		No	WG CN2	CAMEL4-CPH																
252	2013	Mid call procedure for MO and MT calls		No	WG CN2	CAMEL4-MCP																
253	2014	Interactions with Optimal Routing		No	WG CN2	CAMEL4-IOR																
254	2015	Inclusion of flexible tone injection		No	WG CN2	CAMEL4-IFTI																
255	2016	CSE control over MT SMS		No	WG CN2	CAMEL4-CCSMS																
256	2017	CAMEL applicability to media streams like VoIP		No	WG CN2	CAMEL4-ONSTRM																
257	2460	Notification of GPRS mobility management to CSE		No	WG CN2	CAMEL4-NMM																
258	2459	Enhancement of dialled services		No	WG CN2	CAMEL4-EDS																
259	2458	Provision of location information of called subscribe		No	WG CN2	CAMEL4-LOCB																
260	1445	MExE enhancements	NA	No	WG T2	MEXE	TSG															
261	1447	MExE Security	Rel4	No	WG SA3	MEXE-SEC	TSG															

ID	Unique	Name	Rel4	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
262	2045	Stage 3		No	WG SA3	MEXE1-SEC		█														
263	1448	Terminal aspects		No	WG T2			█														
264	1810	MExE Rel4 Improvements and Investigations	Rel4	No	WG T2	MEXE-ENHANC	TSG	█														
265	1812	3rd MExE classmark		No	WG T2		TSG	█														
266	1814	FS on Secure download mechanism and capabilities to support S		No	WG T2		TSG	█														
267	1815	FS on Support of MP3/MPEG4 content		No	WG T2		TSG	█														
268	1816	FS on Support of (U)SAT/OSA/CAMEL interaction to provide ad		No	WG T2		TSG	█														
269	1813	FS on AT command support		No	WG T2		TSG	█														
270	1811	Support of the Terminal parts of the VHE /User Profile		No	WG T2		TSG	█														
271	1625	Wideband Telephony Service - AMR (Master)	Rel4	No	WG SA4	AMRWB	TSG	█			Start Testing											
272	62	Specification		No	WG SA4	AMRWB		█			Start Testing											
273	1459	Design Constraints		No	WG SA4	AMRWB		█														
274	1460	General Description		No	WG SA4	AMRWB		█														
275	1626	Feasibility Study		No	WG SA4	AMRWB	TSG	█														
276	67	Codec issues		No	WG SA4	AMRWB		█														
277	1627	Codec qualification		No	WG SA4	AMRWB	TSG	█														
278	74	Codec selection tests		No	WG SA4	AMRWB		█														
279	891	Codec selection		No	WG SA4	AMRWB		█														
280	890	Other codec issues (verif., characterisation)		No	WG SA4	AMRWB		█														
281	1989	Start Testing		No	MLST	AMRWB		█			Start Testing											
282	1855	Conformance tests (CRs to 34 series)		No	WG T1	AMRWB		█														
283	76	Terminal Acoustic Characteristics		No	WG SA4	AMRWB		█														
284	1628	Definition		No	WG SA4	AMRWB	TSG	█														
285	1629	Test specification		No	WG SA4	AMRWB	TSG	█														
286	889	Implementation		No	WG SA4	AMRWB		█			Start Testing											
287	893	In UTRAN		No	TSG RAN	AMRWB		█														
288	80	Support of AMR-WB in GERAN		No	GERAN	GAMRWB	TSG	█			Start Testing											
289	2265	GMSK and 8PSK WB FR / HR support - Channel coding in 4		No	GERAN	GAMRWB	TSG	█														
290	2266	GMSK and 8PSK WB FR / HR support - Signalling for the A		No	GERAN	GAMRWB	TSG	█														

ID	Unique	Name	Rel4	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
291	2267	GMSK and 8PSK WB FR / HR support - Signalling for lu		No	GERAN	GAMRWB	TSG	[Blue bar]														
292	2268	GMSK and 8PSK WB FR / HR support - Link adaptation in 4E		No	GERAN	GAMRWB	TSG	[Blue bar]														
293	2269	GERAN MS conformance test for AMR-WB		No	GERAN	GAMRWB	TSG				[Grey bar]			[Grey bar]			[Grey bar]					
294	2270	MS test		No	GERAN	GAMRWB	TSG	[Blue bar]			[Blue bar]			[Blue bar]			[Blue bar]					
295	2271	GERAN BTS conformance test for AMR-WB		No	GERAN	GAMRWB	TSG				[Grey bar]			[Grey bar]			[Grey bar]					
296	2272	BTS test		No	GERAN	GAMRWB	TSG	[Blue bar]			[Blue bar]			[Blue bar]			[Blue bar]					
297	1656	In CN, see notes		No	WG CN1	AMRWB		[Blue bar]														
298	1541	Transcoder-Free Operation	Rel4	No	WG CN4	TrFO		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
299	112	OoBTC solution		No	WG CN4	TRFO-OoBTC	WG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
300	1512	implementation in UTRAN	Rel4	No	WG RAN3	TRFO-OoBTC-UTF	TSG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
301	896	Impact on architecture, Principles and Terminology		No	WG SA2	TRFO-OoBTC		[Black bar]														
302	1657	Codec Negotiation between UE and MSC		No	WG CN1	TRFO-OoBTC	TSG	[Black bar]														
303	115	Codec Negotiation inter MSC		No	WG CN4	TRFO-OoBTC		[Black bar]														
304	894	Bearer establishment inter MSC		No	WG CN4	TRFO-OoBTC	TSG	[Black bar]														
305	1617	Prevention of user fraud		No	WG SA3	TRFO-OoBTC		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
306	905	Speech Transcoder: Location and Control at the UM		No	WG SA2	TRFO-STLC	WG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
307	124	Transcoder at Edge		No	TSG CN	TRFO-STLC		[Black bar]														
308	2205	IWF at the Edge (CN border)		No	WG CN3	TRFO-STLC		[Black bar]														
309	1631	Tandem Free aspects for 3G and between 2G and 3G	Rel4	No	WG SA4	TFO		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
310	1632	Tandem Free AMR		No	WG SA4	TFO-AMR		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
311	130	Specification		No	WG SA4	TFO-AMR		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
312	907	Implementation		No	TSG CN	TFO-AMR		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
313	131	in CN		No	TSG CN	TFO-AMR		[Blue bar]			[Blue bar]			[Blue bar]			[Blue bar]					
314	132	in GERAN		No	GERAN	TFO-AMR		[Blue bar]			[Blue bar]			[Blue bar]			[Blue bar]					
315	1818	Multimedia Messaging	Rel4	No	WG T2	MMS	TSG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
316	136	Definition of service requirements		No	WG SA1	MMS		[Black bar]			[Black bar]			[Black bar]			[Black bar]					
317	1819	Review of definition of service requirements		No	WG T2		TSG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
318	1820	Technical Realisation		No	WG T2		TSG	[Black bar]			[Black bar]			[Black bar]			[Black bar]					
319	1532	Definition of reference Architecture model (Martin to check)		No	WG SA2	MMS		[Blue bar]			[Blue bar]			[Blue bar]			[Blue bar]					

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320	1821	Review of definition of reference Architecture model		No	WG T2		TSG															
321	1822	"Fulfill Requirements of Stage 1"		No	WG T2		TSG															
322	1823	Definition of MMS primitives in Stage 2		No	WG T2		TSG															
323	1826	Terminal interfaces	NA	Yes	WG T2	TI																
324	1827	AT commands enhancements	Rel4	No	WG T2	TI-ATC																
325	1828	Specification of AT commands for new services		No	WG T2																	
326	917	Alternatives to AT commands (TBD)		No	WG T2	Yes																
327	1858	UE Conformance test spec. AT command		No	WG T1	TI-ATC																
328	1829	Wide Area Data Synchronisation	Rel4	No	WG T2	TI-WADS																
329	1830	Continues evolution of Synchronisation protocol	Rel4	No	WG T2	TI-SYNC-EVOL																
330	1831	vObjects and Other Constructs for Use in Data Synchronisation	Rel5	No	WG T2	TI-SYNC-VOBJ	TSG															
331	2251	Start Testing		No	MLST	AMRWB																
332	1860	UE Conformance test spec. Wide area data sync		No	WG T1	TI-WADS																
333	1832	Terminal local model	Rel4	No	WG T2	TLM	TSG															
334	1536	Location Services enhancements	NA	Yes	WG SA2	LCS1	TSG															
335	1171	Event based and Periodic LCS	Rel5	No	WG SA1	LCS1-EBP																
336	1641	Stage 1		No	WG SA1	LCS1-EBP																
337	1538	Stage 2 specification		No	WG SA2	LCS1-EBP																
338	1179	Impact on MAP		No	WG CN4	LCS1-EBP																
339	519	(copy) Charging and OAM&P (!)		No	WG SA5	LCS1-OAM																
340	521	New security aspects of LCS (not identified)		No	WG SA3	LCS1-SEC																
341	523	LCS support in the CS domain	Rel4	No	WG SA2	LCS1-CS																
342	525	LCS support in the PS domain	Rel4	No	WG SA2	LCS1-PS																
343	1642	Stage 1		No	WG SA1	LCS1-PS																
344	1181	Stage 2		No	WG SA2	LCS1-PS																
345	1180	Stage 3		No	WG CN1	LCS1-PS																
346	526	Layer 3 LCS signaling UE (MS) -SGSN (UMTS PS and and G		No	WG CN1	LCS1-PS																
347	527	GTP signaling for LCS		No	WG CN4	LCS1-PS																
348	544	LCS interoperation stage 2 aspects		No	WG SA2																	

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349	2434	LCS interoperation stage 2 aspects to GERAN		No	GERAN	LCS-GERAN	TSG															
350	2435	Co-ordinated development of GSM LCS Phase 2 and UMTS LCS,		No	GERAN	LCS-GERAN	TSG															
351	2436	Location Services for GERAN in A/Gb Mode		No	GERAN	LCS-GERAN	TSG															
352	2437	GERAN LCS Stage 2 (first release)		No	GERAN	LCS-GERAN	TSG															
353	2438	Gb interface support for LCS		No	GERAN	LCS-GERAN	TSG															
354	2439	RLC/MAC protocol support for LCS		No	GERAN	LCS-GERAN	TSG															
355	2440	L3 protocol support for LCS		No	GERAN	LCS-GERAN	TSG															
356	2441	Stage 3 specifications		No	GERAN	LCS-GERAN	TSG															
357	2442	Location Services for GERAN in Iu Mode		No	GERAN	LCS-GERAN	TSG															
358	2443	GERAN LCS Stage 2 (second release)		No	GERAN	LCS-GERAN	TSG															
359	2444	Iu-ps interface support for LCS		No	GERAN	LCS-GERAN	TSG															
360	2445	Iu-cs interface support for LCS		No	GERAN	LCS-GERAN	TSG															
361	2446	Iur-g interface support for LCS		No	GERAN	LCS-GERAN	TSG															
362	2447	RRC protocol support for LCS		No	GERAN	LCS-GERAN	TSG															
363	2448	Additional impacts on Broadcast of LCS data on packet channels		No	GERAN	LCS-GERAN	TSG															
364	2449	Stage 3 specifications		No	GERAN	LCS-GERAN	TSG															
365	2450	GERAN MS Conformance test for LCS		No	GERAN4	LCS-GERAN	TSG															
366	2451	MS test		No	GERAN4	LCS-GERAN	TSG															
367	2452	GERAN BTS Conformance test for LCS		No	GERAN3	LCS-GERAN	TSG															
368	2453	BTS test		No	GERAN3	LCS-GERAN	TSG															
369	2229	CBS interactions	Rel4	No	WG T2	LCS1-CBS																
370	1916	MExE interactions	Rel4	No	WG T2	LCS1-MEXE																
371	1600	UE positioning	Rel4	No	SG RAN	LCS1-UEpos	TSG															
372	1601	Iub/Iur interfaces for methods Rel 99	Rel4	No	IG RAN3	LCS1-UEpos-IubIur	TSG															
373	1602	UE positioning enhancements - IPDL for TDD	Rel4	No	IG RAN2	LCS1-UEpos-enh	TSG															
374	2457	UE positioning enhancements - other methods	Rel5	No	IG RAN2	LCS1-UEpos-enh	WG															
375	1603	(Copy) UTRA repeater specification		No	IG RAN4		TSG															
376	1796	(Copy) LCS application interfaces (LCS-OSA)		No	WG SA1																	
377	1183	FS on LCS support in the IM CN subsystem		No	WG SA1																	

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378	2125	Open LCS interfaces in UMTS and GERAN	Rel5	No	WG SA2	LCS-INTF	TSG															
379	2127	Stage 2		No	WG SA2		WG															
380	2126	Stage 3		No																		
381	1542	Ensure reliable QoS for PS domain	Rel4	No	WG SA2	QoSPS																
382	1543	stage 2 for End-to-end QoS (re)negotiation and reser		No	WG SA2	QoSPS																
383	1658	stage 3 for End-to-end QoS (re)negotiation and reser		No	WG CN1	QoSPS																
384	1545	GMM and SM aspects		No	WG CN1	QoSPS																
385	1546	GTP aspects		No	WG CN4	QoSPS																
386	1547	Mapping of end to end QoS parameters on each inte		No	WG SA2	QoSPS-MAPEND																
387	1548	Impacts on N4 documents		No	WG CN4																	
388	1549	Impacts on N3 documents		No	WG CN3																	
389	1681	RAB Quality of Service (re)Negotiation over Iu	Rel4	No	/G RAN3	QoSPS-MAPEND-F	TSG															
390	1991	RAB Quality of Service Negotiation over Iu	Rel4	No	/G RAN3	QoSPS-MAPEND-F	TSG															
391	2456	RAB Quality of Service Negotiation over Iu during relocation	Rel4	No	/G RAN3	QoSPS-MAPEND-F																
392	1992	RAB Quality of Service Re-Negotiation over Iu	Rel4	No	/G RAN3	QoSPS-MAPEND-F	TSG															
393	1685	PS-domain handover for real-time services	Rel4	No	/G RAN3	QoSPS-PSdoRTS	TSG															
394	1550	Interactions between external mechanisms and UMT		No	WG CN3																	
395	1551	Possible new code points in QoS IE from external ne		No	WG CN1	QoSPS-ENDEND-CI																
396	1659	Possible new code points in QoS IE for UMTS		No	WG CN1	QoSPS-ENDEND-CI																
397	1660	Mapping between the QoS UMTS point codes and th		No	WG CN1	QoSPS-ENDEND-CI																
398	1552	(Copy) Charging Management		No	WG SA5	QoSPS-OAMCH	TSG															
399	1624	Security aspects		No	WG SA3																	
400	1619	Application aspects, multi-mode aspects		No	WG T2		WG															
401	1553	GERAN QoS Aspects - Handovers: maintenance of re		No	GERAN	GERQoS																
402	2306	Handover for the PS domain		No	GERAN																	
403	2309	Stable RT handover report 25.936 including header removal		No	GERAN																	
404	2307	Update of stage 2		No	GERAN																	
405	2308	Update of relevant stage 3 specs		No	GERAN																	
406	1554	Evolution of maximum SDU size		No	WG SA2	QoSPS-MAXSDU																

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407	1555	Impacts on CN protocols (e.g., GTP, MAP)		No	WG CN4			[Blue bar]														
408	1556	Impact on interworking over GTP e.g. PPP		No	WG CN3			[Blue bar]														
409	1611	Admission control function triggers	NA	No	/G RAN3	QoSPS-AdmC		[Blue bar]														
410	1557	DEL?: QoS for CS services at HOs (inter-MSC and	Rel4	No	WG SA2	QoSCS		[Grey bar]														
411	1559	GERAN aspects		No	GERAN			[Blue bar]														
412	1560	UICC/(U)SIM enhancements and interworking	NA	Yes	WG T3	UICC1		[Grey bar]														
413	1798	FS on UICC/ME Performance Enhancements		No	WG T3		TSG	[Blue bar]														
414	1562	DELETED: UICC/USIM database specification	Rel4	No	WG T3	UICC1-DataB	TSG	[Blue bar]														
415	1799	Common PCN Handset Specification (CPHS)	Rel4	No	WG T3	UICC1-CPHS	TSG	[Blue bar]														
416	1564	report on SIM/USIM Interworking		No	WG T3		TSG	[Blue bar]														
417	1800	(U)SIM toolkit enhancements	NA	Yes	WG T3	USAT1		[Grey bar]														
418	1566	Enhancements to (U)SIM toolkit secure messaging	Rel4	No	WG T3	USAT1-SM	TSG	[Blue bar]														
419	1801	Protocol Standardisation of a SIM Toolkit Interpreter	Rel4	No	WG T3	USAT1-Interpr	TSG	[Blue bar]														
420	2034	USAT local link	Rel4	No	WG T3	USAT1-LocLnk	TSG	[Blue bar]														
421	1802	UICC API	NA	Yes	WG T3	USAT1-API		[Grey bar]														
422	2029	Java API	Rel4	No	WG T3	USAT1-API-JAVA		[Grey bar]														
423	1803	Test specification		No	WG T3		TSG	[Blue bar]														
424	2031	Multos API	Rel5	No	WG T3	USAT1-API-MULT	TSG	[Grey bar]														
425	2032	Specification		No	WG T3	USAT1-API-MULTC	TSG	[Blue bar]														
426	2033	Test specification		No	WG T3	USAT1-API-MULTC	TSG	[Blue bar]														
427	2100	USIM Toolkit security		No	WG SA3	USAT1-API-MULTC	TSG	[Blue bar]														
428	1571	Security enhancements	NA	No	WG SA3	SEC1	TSG	[Grey bar]														
429	2099	UE triggered authentication during connections	Rel4	No	WG SA3	SEC1-UETADC	TSG	[Grey bar]														
430	2254	Stage3		No	WG CN1	SEC1-UETADC		[Grey bar]														
431	1587	Evolution of GSM CS algorithms (e.g. A5/3 developm	Rel4	No	WG SA3	SEC1-CSALGO1	TSG	[Blue bar]														
432	1588	Evolution of GSM PS algorithms (e.g. GEA 2 deployr	Rel4	No	WG SA3	SEC1-PSALGO1	TSG	[Grey bar]														
433	1589	Main aspects		No	WG SA3	SEC1-PSALGO1		[Blue bar]														
434	1618	Impact on GTP		No	WG CN4	SEC1-PSALGO1	WG	[Blue bar]														
435	1661	GEA capability indication in MS CM		No	WG CN1	SEC1-PSALGO1-C		[Blue bar]														

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436	1572	Protection for user plane data	Rel5	Yes	WG SA3	SEC1-PUPD	TSG																		
437	1573	Integrity protection in access network		No	WG SA3	SEC1-PUPD																			
438	1575	Network based end-to-end security		No	WG SA3	SEC1-PUPD																			
439	1576	Network domain security		Yes	WG SA3	SEC1-NDS	TSG																		
440	1577	Control plane protection in core network (e.g., GTP, CAP, MAP/IF	Rel5	No	WG SA3	SEC1-NDS																			
441	1578	Main aspects		No	WG SA3	SEC1-NDS																			
442	1579	Integration of GTP signalling security architecture		No	WG CN4	SEC1-NDS																			
443	1580	User plane protection in core network (e.g., provided by IPsec)	Rel5	No	WG SA3	SEC1-NDS																			
444	1581	Main aspects		No	WG SA3	SEC1-NDS																			
445	1582	Integration of GTP signalling security architecture		No	WG CN4	SEC1-NDS																			
446	2098	Study of network-based denial of service		No	WG SA3	SEC1-NDS	TSG																		
447	1583	MAP application layer security	Rel4	No	WG SA3	SEC1-MAPAL	TSG																		
448	1584	Main aspects		No	WG SA3	SEC1-MAPAL	WG																		
449	2025	Other stage 3 aspects		No	WG CN4	SEC1-MAPAL	TSG																		
450	1586	Key management for core network security		No	WG SA3	SEC1-KMCN	TSG																		
451	1594	Visibility and Configurability of security	Rel4	No	WG SA3	SEC1-VCS	TSG																		
452	1595	FIGS	Rel5	No	WG SA3	SEC1-FIGS																			
453	2026	Enhanced HE control of security (including positive a	Rel6	No	WG SA3																				
454	2027	Stage 2		No	WG SA3																				
455	2028	FS on Network impacts		No	WG CN4																				
456	1861	Miscellaneous UE Conformance Testing Activities	NA	Yes	WG T1	MISTST1																			
457	1862	Optimisation of Test Time, RF Aspects (FDD)		No	WG T1	MISTST1																			
458	1863	Optimisation of Test Time, RF Aspects (TDD)		No	WG T1	MISTST1																			
459	1907	Extensions to R99 Test cases		No	WG T1	MISTST1																			
460	1908	Review all other work items for impact on new or exi		No	WG T1	MISTST1																			
461	1909	Additional signalling tests to cover VHE, OSA, MExE,		No	WG T1	MISTST1																			
462	1365	Support of Push Services	Rel5	No	WG SA2	PUSH	TSG																		
463	1142	Charging and OAM&P (Master)	Rel4	No	WG SA5	OAM																			
464	2089	Principles, high level Requirements and Architecture		No	WG SA5	OAM-AR/PR	TSG																		

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465	2088	Performance Management (PM) (Master)		No	WG SA5	OAM-PM																
466	2081	Fault Management (FM) (Master)		No	WG SA5	OAM-FM	TSG															
467	2082	Configuration Management (CM) (Master)		No	WG SA5	OAM-CM																
468	2242	Charging Management for all-IP UMTS networks (Ma		No	WG SA5	OAM-CH/IP	TSG															
469	2083	Charging Management (CH) (Master)		No	WG SA5	OAM-CH																
470	2062	Subscription Management	Rel4	No	WG SA5	SM	TSG															
471	2071	UTRAN Operations and Maintenance procedures	Rel4	No	WG SA5	UOAM	TSG															
472	1993	small Technical Enhancements and Improvements	Rel4	No	Generic	TE4	TSG															
473	2230	Advanced Speech Call Items enhancements_REL4	Rel4	No	WG CN1	ASCI	TSG															
474	2232	Stage 2		No	WG CN4	ASCI	WG															
475	2231	Stages 2 and 3 on A interface		No	WG CN1	ASCI	WG															
476	2243	Intra Domain Connection of RAN Nodes to Multiple	Rel5	No	WG SA2	MULCN	TSG															
477	2244	Overall System Architecture		No	WG SA2	MULCN	TSG															
478	2245	RAN work		No	WG RAN3	MULCN	TSG															
479	2246	GERAN work		No	GERAN2	MULCN	TSG															
480	2247	CN work		No	WG CN1	MULCN	TSG															
481	2248	N1 work		No	WG CN1	MULCN	TSG															
482	2249	N4 work		No	WG CN4	MULCN	TSG															
483	2310	GERAN improvements 1	Rel4	No	GERAN	GEIMP1	TSG															
484	2311	Gb over IP (Ip-fication of Gb)		No	GERAN	GbIP	TSG															
485	2312	Concept		No	GERAN		TSG															
486	2313	Changes to 08.16, 08.18		No	GERAN		TSG															
487	2314	GERAN improvements 2	Rel4	No	GERAN	GEIMP2	TSG															
488	2315	Gb enhancements		No	GERAN	Gben	TSG															
489	2316	NACC (network Assisted Cell Change)		No	GERAN		TSG															
490	2420	Concept		No	GERAN		TSG															
491	2317	Changes in 03.64		No	GERAN		TSG															
492	2318	Changes in 04.60		No	GERAN		TSG															
493	2319	Changes in 44.008		No	GERAN		TSG															

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494	2320	GERAN improvements 3	Rel5	No	GERAN	GEIMP3	TSG															
495	2321	Evolution of the transport for A		No	GERAN	EtA	TSG															
496	2322	Definition of a new A interface Transport Layer option based on		No	GERAN		TSG															
497	2323	Adaptation of the Layer 3 BSSMAP procedures as required		No	GERAN		TSG															
498	2324	GERAN improvements 4	Rel4	No	GERAN		TSG															
499	2325	Gb enhancements 2		No	GERAN		TSG															
500	2429	stage 2		No	GERAN																	
501	2421	Stage 3 (changes in 44.060)		No	GERAN2		TSG															
502	2327	Definition of enhanced countdown procedure		No	GERAN2		TSG															
503	2328	Definition of enhanced TBF release procedure		No	GERAN2		TSG															
504	2329	Definition of USF=FREE type polling mechanism on PDCH		No	GERAN2		TSG															
505	2330	GERAN support for IP multimedia	Rel5	No	GERAN		TSG															
506	2331	GERAN Header adaptation		No	GERAN		TSG															
507	2332	Definition of compression and removal modes for PDCP protocol		No	GERAN		TSG															
508	2333	Conceptual description in stage 2		No	GERAN		TSG															
509	2334	Necessary changes on stage 3 regarding header removal		No	GERAN		TSG															
510	2335	GERAN Radio access bearer design for IP multimedia		No	GERAN		TSG															
511	2422	MuM control signalling for conversational multimedia services		No	GERAN		TSG															
512	2431	Identification of requirements		No	GERAN		TSG															
513	2337	Necessary modifications due to SIP		No	GERAN		TSG															
514	2338	Physical layer multiplexing		No	GERAN		TSG															
515	2339	Stage 2		No	GERAN		TSG															
516	2432	Stage 3		No	GERAN		TSG															
517	2341	GERAN MS Conformance test for support of IP multimedia		No	GERAN		TSG															
518	2342	MS test		No	GERAN4		TSG															
519	2343	GERAN BTS Conformance test for support of IP multimedia		No	GERAN		TSG															
520	2344	BTS test		No	GERAN3		TSG															
521	2345	Alignment of 3G functional split and lu	Rel5	No	GERAN		TSG															
522	2346	GERAN user / control plane		No	GERAN		TSG															

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523	2347	Alignment with UMTS bearer concept		No	GERAN		TSG															
524	2423	Stage 2		No	GERAN		TSG															
525	2348	Adoption of the UTRAN PDCP		No	GERAN		TSG															
526	2349	Development of RLC / MAC		No	GERAN		TSG															
527	2350	Development of GERAN RR		No	GERAN		TSG															
528	2351	Ciphering and integrity protection		No	GERAN		TSG															
529	2352	Logical and physical channel realization TCH, PDTCH, contr		No	GERAN		TSG															
530	2353	Use of stealing bits		No	GERAN		TSG															
531	2354	Fast access		No	GERAN		TSG															
532	2355	Fast power control		No	GERAN		TSG															
533	2424	Physical layer alignment with UMTS bearer concept		No	GERAN		TSG															
534	2356	PDTCH/TCH in 45.003		No	GERAN		TSG															
535	2357	Control channels in 45.003		No	GERAN		TSG															
536	2358	Receiver performance in 45.005 for PDTCH/TCH and contro		No	GERAN		TSG															
537	2359	Iu rg interface		No	GERAN		TSG															
538	2425	Inter BSS interface		No	GERAN		TSG															
539	2360	Identification of requirements		No	GERAN																	
540	2361	Stage 2		No	GERAN																	
541	2362	Adoption of relevant parts from Iur		No	GERAN																	
542	2363	Complementation with GERAN specifics		No	GERAN																	
543	2364	New stage 3		No	GERAN																	
544	2426	Inter BSS-RNS interface		No	GERAN																	
545	2365	Identification of requirements		No	GERAN																	
546	2366	Stage 2		No	GERAN																	
547	2367	Adoption of relevant parts from Iur		No	GERAN																	
548	2368	Complementation with GERAN specifics		No	GERAN																	
549	2369	New stage 3		No	GERAN																	
550	2370	Voice over GERAN PS and CS concept		No	GERAN																	
551	2371	Architecture for A, Iu cs and Iu ps		No	GERAN																	

ID	Unique	Name	Relat	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
552	2372	Transcoder position/operation		No	GERAN			█			█												
553	2373	Handover		No	GERAN			█			█												
554	2374	RTP payload		No	GERAN			█			█												
555	2375	FPC		No	GERAN			█			█												
556	2376	LA		No	GERAN			█			█												
557	2377	GERAN Narrowband speech realization		No	GERAN			◆															
558	2427	8-PSK NB HR		No	GERAN			◆															
559	2378	Channel coding in 45.003		No	GERAN			█			█												
560	2379	Signalling for A interface		No	GERAN			█															
561	2380	Signalling for lu		No	GERAN			█															
562	2381	Link adaptation in 45.009		No	GERAN			█															
563	2382	Receiver performance in 45.005		No	GERAN			█															
564	2428	8-PSK NB QR		No	GERAN			◆															
565	2383	Channel coding in 45.003		No	GERAN			█			█												
566	2384	Signalling for A interface		No	GERAN			█															
567	2385	Signalling for lu		No	GERAN			█															
568	2386	Link adaptation in 45.009		No	GERAN			█															
569	2387	Receiver performance in 45.005		No	GERAN			█															
570	2388	GERAN MS Conformance test for GERAN interface ev		No	GERAN																		
571	2389	MS test		No	GERAN																		
572	2390	GERAN MS Conformance test for GERAN interface ev		No	GERAN																		
573	2391	BSS test		No	GERAN																		
574	2392	GERAN enhancements for streaming services 1	Rel5	No	GERAN			◆															
575	2393	GERAN enhancements for streaming services 1		No	GERAN			◆															
576	2394	Concept		No	GERAN			█			█												
577	2395	RLC protocol enhancement		No	GERAN			█			█												
578	2396	GERAN enhancements for streaming services 2	Rel5	No	GERAN			◆															
579	2397	GERAN enhancements for streaming services 2		No	GERAN			◆															
580	2398	Usage of ECSD		No	GERAN			█			█												

ID	Unique	Name	Rel	Split	Resource	Acronym	Level	Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001		
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
581	2399	Stage 2		No	GERAN			█			█											
582	2400	Stage 3		No	GERAN			█			█											
583	2401	RLC PDU formats		No	GERAN			█			█											
584	2402	MAC header		No	GERAN			█			█											
585	2403	700 MHz spectrum support	Rel4	No	GERAN			█			█											
586	2404	GERAN support for the 700 MHz band		No	GERAN			█														
587	2405	Signalling support		No	GERAN			█														
588	2406	Physical layer definitions		No	GERAN			█														
589	2407	Receiver performance and RF budget		No	GERAN			█														
590	2408	GERAN MS Conformance test for 700 MHz band		No	GERAN						█			█								
591	2409	MS test		No	GERAN						█											
592	2410	GERAN BTS Conformance test for 700 MHz band		No	GERAN						█			█								
593	2411	BTS test		No	GERAN						█											
594	2412	GERAN/UTRAN interface evolution 1	Rel5	No	GERAN			█			█											
595	2413	Evolution of lu ps		No	GERAN			█			█											
596	2414	Identification of GERAN requirements on lu ps		No	GERAN			█			█											
597	2415	Update of specifications		No	GERAN						█											
598	2416	GERAN/UTRAN interface evolution 2	Rel5	No	GERAN			█			█											
599	2417	Evolution of lu cs		No	GERAN			█			█											
600	2418	Identification of GERAN requirements on lu cs		No	GERAN			█			█											
601	2419	Update of specifications		No	GERAN						█											

ID	Unique	Name	Rel4	Split	Resource	Acronym	Qtr 3, 2000			Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3,	
							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
6	2	Evolutions of the transport in the UTRAN	NA	Yes	SG RAN	ETRAN														
7	625	IP transport in the UTRAN	Rel4	No	/G RAN3	ETRAN-IPtrans														
8	12	QoS optimisation for AAL2 connections over lub and lur	Rel4	No	/G RAN3	ETRAN-QoSAAL2														
9	1995	Transport bearer modification procedure on lub, lur, lrr	Rel4	No	/G RAN3	ETRAN-MigrMod														
10	2257	Evolution of transport in UTRAN and GERAN	Rel4	No	/G RAN3	ETRANG														
15	4	Evolutions of the transport in the CN	NA	Yes	WG CN4	CNTRSP														
16	859	IP Transport of CN protocols (e.g., CAP, MAP)	Rel4	No	WG CN4	SS7IP														
24	1216	Improvements of Radio Interface	NA	Yes	SG RAN	RInImp														
26	1471	Base station classification	Rel4	No	/G RAN4	RInImp-BSCClass														
31	1507	Terminal Power Saving features	Rel4	No	/G RAN1	RInImp-TPS														
32	1509	UTRA repeater specification (master)	Rel4	No	/G RAN4	RInImp-REP														
33	1994	DSCH power control improvement in soft handover	Rel4	No	/G RAN1	RInImp-DSCHsho														
34	1996	UMTS 1800	Rel4	No	/G RAN4	RInImp-UMTS18														
47	1222	Low Chip Rate TDD option	Rel4	No	/G RAN1	LCRTDD														
52	1228	lub/lur protocol aspects	Rel4	No	/G RAN3	LCRTDD-lublr														
61	9	RAN improvements	NA	Yes	SG RAN	RANimp														
62	656	RRM optimization for lur and lub	Rel4	No	/G RAN3	RANimp-RRMopt														
63	655	Node B synchronisation for TDD	Rel4	No	/G RAN1	RANimp-NBsync														
65	2206	RAB support enhancement - ROHC part only	Rel4	No	/G RAN2	RANimp-RABSE														
128	1539	Transparent End-to-End PS mobile streaming appl	Rel4	No	WG SA4	PSTREAM														
129	1652	Emergency call enhancements	NA	Yes	WG CN1	EMC1														
137	1654	For CS based calls	Rel4	No	WG CN1	EMC1-CS														
143	1322	Enable bearer independent CS architecture	Rel4	No	WG SA2	CSSPLIT														
158	1333	DEL?: CS multimedia services	Rel4	No	WG SA2	CSM														
168	1340	Facsimile	Rel4	No	WG SA1	FAX														
177	1517	Global Text Telephony	NA	Yes	WG SA2	GTT														
178	2240	Minimum solution	Rel4	No																
195	1526	DEL?: Bearer Modification without pre-notification	Rel4	No	WG SA1	BMWPN														
224	1637	OSA enhancements	NA	Yes	WG SA1	OSA1														

ID	Unique	Name	Rel4	Split	Resource	Acronym	Qtr 3, 2000			Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3,
							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
226	1424	Interactions OSA - e-commerce	Rel4	No	WG SA2	OSA1-ECOM													
260	1445	MExE enhancements	NA	No	WG T2	MEXE													
261	1447	MExE Security	Rel4	No	WG SA3	MEXE-SEC													
264	1810	MExE Rel4 Improvements and Investigations	Rel4	No	WG T2	MEXE-ENHANC													
271	1625	Wideband Telephony Service - AMR (Master)	Rel4	No	WG SA4	AMRWB													
298	1541	Transcoder-Free Operation	Rel4	No	WG CN4	TrFO													
309	1631	Tandem Free aspects for 3G and between 2G and :	Rel4	No	WG SA4	TFO													
315	1818	Multimedia Messaging	Rel4	No	WG T2	MMS													
323	1826	Terminal interfaces	NA	Yes	WG T2	TI													
324	1827	AT commands enhancements	Rel4	No	WG T2	TI-ATC													
328	1829	Wide Area Data Synchronisation	Rel4	No	WG T2	TI-WADS													
329	1830	Continues evolution of Synchronisation protocol	Rel4	No	WG T2	TI-SYNC-EVOL													
333	1832	Terminal local model	Rel4	No	WG T2	TLM													
334	1536	Location Services enhancements	NA	Yes	WG SA2	LCS1													
341	523	LCS support in the CS domain	Rel4	No	WG SA2	LCS1-CS													
342	525	LCS support in the PS domain	Rel4	No	WG SA2	LCS1-PS													
369	2229	CBS interactions	Rel4	No	WG T2	LCS1-CBS													
370	1916	MExE interactions	Rel4	No	WG T2	LCS1-MEXE													
371	1600	UE positioning	Rel4	No	SG RAN	LCS1-UEpos													
372	1601	lub/lur interfaces for methods Rel 99	Rel4	No	/G RAN3	LCS1-UEpos-lublur													
373	1602	UE positioning enhancements - IPDL for TDD	Rel4	No	/G RAN2	LCS1-UEpos-enh													
381	1542	Ensure reliable QoS for PS domain	Rel4	No	WG SA2	QoSPS													
410	1557	DEL?: QoS for CS services at HO (inter-MSC and	Rel4	No	WG SA2	QoSCS													
412	1560	UICC/(U)SIM enhancements and interworking	NA	Yes	WG T3	UICC1													
414	1562	DELETED: UICC/USIM database specification	Rel4	No	WG T3	UICC1-DataB													
415	1799	Common PCN Handset Specification (CPHS)	Rel4	No	WG T3	UICC1-CPHS													
417	1800	(U)SIM toolkit enhancements	NA	Yes	WG T3	USAT1													
418	1566	Enhancements to (U)SIM toolkit secure messaging	Rel4	No	WG T3	USAT1-SM													
419	1801	Protocol Standardisation of a SIM Toolkit Interpreter	Rel4	No	WG T3	USAT1-Interpr													

ID	Unique	Name	Rel4	Split	Resource	Acronym	Qtr 3, 2000			Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3,		
							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
420	2034	USAT local link	Rel4	No	WG T3	USAT1-LocLnk															
421	1802	UICC API	NA	Yes	WG T3	USAT1-API															
422	2029	Java API	Rel4	No	WG T3	USAT1-API-JAVA															
428	1571	Security enhancements	NA	No	WG SA3	SEC1															
429	2099	UE triggered authentication during connections	Rel4	No	WG SA3	SEC1-UETADC															
431	1587	Evolution of GSM CS algorithms (e.g. A5/3 developm	Rel4	No	WG SA3	SEC1-CSALGO1															
432	1588	Evolution of GSM PS algorithms (e.g. GEA 2 deployr	Rel4	No	WG SA3	SEC1-PSALGO1															
447	1583	MAP application layer security	Rel4	No	WG SA3	SEC1-MAPAL															
451	1594	Visibility and Configurability of security	Rel4	No	WG SA3	SEC1-VCS															
463	1142	Charging and OAM&P (Master)	Rel4	No	WG SA5	OAM															
470	2062	Subscription Management	Rel4	No	WG SA5	SM															
471	2071	UTRAN Operations and Maintenance procedures	Rel4	No	WG SA5	UOAM															
472	1993	small Technical Enhancements and Improvements	Rel4	No	Generic	TE4															
473	2230	Advanced Speech Call Items enhancements_REL-	Rel4	No	WG CN1	ASCI															
483	2310	GERAN improvements 1	Rel4	No	GERAN	GEIMP1															
487	2314	GERAN improvements 2	Rel4	No	GERAN	GEIMP2															
498	2324	GERAN improvements 4	Rel4	No	GERAN																
585	2403	700 MHz spectrum support	Rel4	No	GERAN																

ID	Unique	Name	Rel:	Split:	Resource	Acronym	Level	Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			Qtr 1
								Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
24	1216	Improvements of Radio Interface	NA	Yes	SG RAN	RInImp	TSG													
25	1470	Improvement of inter-frequency and inter-system m	Rel5	No	/G RAN1	RInImp-IflsM	TSG													
29	1217	Hybrid ARQ II/III	Rel5	No	/G RAN2	RInImp-HARQ	TSG													
30	1218	Improved usage of downlink resource in FDD for CCT	Rel5	No	/G RAN2	RInImp-CCTrCH	TSG													
61	9	RAN improvements	NA	Yes	SG RAN	RANimp	TSG													
64	624	RAB support enhancement - no ROHC	Rel5	No	/G RAN2	RANimp-RABSE	TSG													
66	1680	Header compression removal/stripping in the RAN	Rel5	No	SG RAN															
67	1686	Unequal error protection in PS domain in the RAN	Rel5	No	SG RAN															
73	1273	Provisioning of IP-based multimedia services	Rel5	No	WG SA1	IMS	TSG													
129	1652	Emergency call enhancements	NA	Yes	WG CN1	EMC1	WG													
130	1653	For IP & PS based calls	Rel5	No	WG CN1	EMC1-PS	TSG													
177	1517	Global Text Telephony	NA	Yes	WG SA2	GTT	TSG													
184	2239	Improvements of GTT	Rel5	No																
207	1367	VHE enhancements	NA	Yes	WG SA1	VHE1	TSG													
208	1368	Detailed definition of the VHE user profile	Rel5	No	WG SA2	VHE1-USERP	WG													
212	2104	Extensions to existing (and possibly new) toolkits	Rel5	Yes	WG SA2	VHE1-TLKT1	WG													
216	2108	Interaction between toolkits to enable IP multimedia	Rel5	Yes	WG SA2	VHE1-IMS	WG													
220	2112	Transparent roaming for services	Rel5	Yes	WG SA2	VHE1-RMG	WG													
224	1637	OSA enhancements	NA	Yes	WG SA1	OSA1	WG													
229	1429	OSA APIs for MuMa CC	Rel5	No	WG SA2	OSA1-CSCF														
232	1419	OSA security	Rel5	No	WG SA3	OSA1-SEC	TSG													
239	1433	Retrieval of Terminal capabilities	Rel5	No	WG SA2	OSA1-TC														
248	1638	CAMEL phase 4	Rel5	No	WG SA1	CAMEL4														
323	1826	Terminal interfaces	NA	Yes	WG T2	TI														
328	1829	Wide Area Data Synchronisation	Rel4	No	WG T2	TI-WADS														
330	1831	vObjects and Other Constructs for Use in Data Synchronisation	Rel5	No	WG T2	TI-SYNC-VOBJ	TSG													
334	1536	Location Services enhancements	NA	Yes	WG SA2	LCS1	TSG													
335	1171	Event based and Periodic LCS	Rel5	No	WG SA1	LCS1-EBP														
371	1600	UE positioning	Rel4	No	SG RAN	LCS1-UEpos	TSG													

ID	Unique	Name	Rel5	Split	Resource	Acronym	Level	Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			Qtr 1		
								Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
374	2457	UE positioning enhancements - other methods	Rel5	No	/G RAN2	LCS1-UEpos-enh	WG															
378	2125	Open LCS interfaces in UMTS and GERAN	Rel5	No	WG SA2	LCS-INTF	TSG															
417	1800	(U)SIM toolkit enhancements	NA	Yes	WG T3	USAT1																
421	1802	UICC API	NA	Yes	WG T3	USAT1-API																
424	2031	Multos API	Rel5	No	WG T3	USAT1-API-MULT	TSG															
428	1571	Security enhancements	NA	No	WG SA3	SEC1	TSG															
436	1572	Protection for user plane data	Rel5	Yes	WG SA3	SEC1-PUPD	TSG															
439	1576	Network domain security		Yes	WG SA3	SEC1-NDS	TSG															
440	1577	Control plane protection in core network (e.g., GTP, CAP, MAP/IF)	Rel5	No	WG SA3	SEC1-NDS																
443	1580	User plane protection in core network (e.g., provided by IPsec)	Rel5	No	WG SA3	SEC1-NDS																
452	1595	FIGS	Rel5	No	WG SA3	SEC1-FIGS																
462	1365	Support of Push Services	Rel5	No	WG SA2	PUSH	TSG															
476	2243	Intra Domain Connection of RAN Nodes to Multiple	Rel5	No	WG SA2	MULCN	TSG															
494	2320	GERAN improvements 3	Rel5	No	GERAN	GEIMP3	TSG															
505	2330	GERAN support for IP multimedia	Rel5	No	GERAN		TSG															
521	2345	Alignment of 3G functional split and lu	Rel5	No	GERAN		TSG															
574	2392	GERAN enhancements for streaming services 1	Rel5	No	GERAN																	
578	2396	GERAN enhancements for streaming services 2	Rel5	No	GERAN																	
594	2412	GERAN/UTRAN interface evolution 1	Rel5	No	GERAN																	
598	2416	GERAN/UTRAN interface evolution 2	Rel5	No	GERAN																	