
Content of this package:

1) Work Plan cover page:

Work_plan_cover_011212.doc Cover page

2) The complete Work Plan in 4 different formats:

Work_Plan_3GPP_011212.mpp MASTER - Work Plan in MS Project format

(contains all WI attributes and Gantt view)

Work_Plan_3GPP_011212.xls Work Plan in Excel format (contains most of
the WI attributes)

Work_Plan_3GPP_011212.pdf Work Plan in PDF format (contains main WI
attributes and Gantt view)

3) 1 filtered PDF views of the Work Plan:

Work_Plan_3GPP_011212_rel5.pdf All the "unsplitable" features and BBs
foreseen to be in Rel5

Source: MCC
Title: Cover Page for the Work Plan, version 2001, December 12th

3GPP Work Plan – Cover page
Version 2001, December 12th

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 November 24th and December 12th

Inputs have been received from:

S1, S3, S4, N1, N2, N4, T1, T2, GERAN, R2, R3, R4

The following lines have been deleted:

By T1:

2220 Testing Smart antenna
2221 Testing Node B synchronisation for TDD
2251 Start Testing [of Wide Area Data Synchronisation]
1860 UE Conformance test spec. Wide area data sync
1909 Additional signalling tests to cover VHE, OSA, MExE, W/B Telephony AMR & TrFO
1851 Conformance Test Aspects - Facsimile
2216 Testing Physical Layer [of Low Chip Rate TDD]
2219 Testing UE radio access capability
1847 UE Conformance test spec., Bearer independent CS, Protocol
1848 UE Conformance test spec., Bearer independent CS, TTCN

Main changes between version October 11th and November 24th

Inputs have been received from:
S2, N4, R1, R4

The VHE feature has been widely restructured, as proposed in S2-013060:
SA2 # 20 decided to delete the following Building Blocks:
Interaction between toolkits to enable IMS (UID 2108, Rel5, WG SA2)
Transparent roaming for services (UID 2112, Rel5, WG SA2)
Charging [for VHE] (UID 2532, Rel5, WG SA2)
Other VHE Enhancements (UID 2535, Rel5, WG SA2)

2104 (name changed) Extensions to OSA to support VHE

Other deleted lines:

Number portability in IMS (UID 1732) deleted by N4 and CN plenary

“Bearer Independence and codec control issues” (UID 1332) bellow the feature “Enable bearer independent CS architecture” (cleaned up)

UID 34005: “AMR-WB” under “Tandem Free AMR” under “Tandem Free aspects for 3G and between 2G and 3G systems”, deleted by N4

UID 2099: UE triggered authentication during connections (should have been deleted some time ago)

UID 2529: UE Functionality Split deleted (duplicated with UID 31013 UE Functionality Split)

Comments

The following Features need to be restructure:

- VHE/OSA

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).

A "Tracking Gantt" is used (since version 2001, July the 11th) instead of the "simple" Gantt used before. This means that bellow each Gantt line (horizontal blue line in the right part of the document), there is a thin horizontal black line showing the previously foreseen start and end dates. This enables tracking the slipping of dates. This is reset after each plenary.

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-splitable features. If the feature is splitable, it applies to each individual Building Block composing the feature, provided that the Building Blocks are non-splitable. It does not apply to Feasibility Studies, Testing nor Charging Activities.
4. Splitable: 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 October 9th and October 11th

The missing approved WIs at SA#13 from S1 have been included:

Digital Right Management (UID 31010)

UMTS-WLAN interworking (UID 31012)

UE Split (UID 31013)

as well as

Priority Service (UID 30000).

The complete Work Plan has been rearranged: all the Features applicable to Rel4 only have been put at the end of the Plan, to improve the readability.

The N1 task on WB-AMR has been reintroduced (UID 1656), in addition to the task from N4 added in the previous version.

The N1 and N4 tasks on Iu-flex has been reintroduced (UID 2248 and 2249), whereas the UID 10000 (general CN work on Iu-flex) has been deleted.

Main changes between version September 19th and October 9th

Inputs have been received from:

S1, S2, S4, S5, N1, N2, N3, N4, N5, T1, T2, T3, R2, R4, GERAN

The IMS feature has been widely restructured, as proposed in SP-010550.

UID 2126 (Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning, Stage 3 RAN2) has been deleted by RAN2.

UID 2245 (RAN work of Iu-flex) is deleted, replaced by 20000 (Stage 3: RAN node selecting CN node)

UID 2247 (CN work of Iu-flex) is deleted, replaced by 10000 (Stage 3: CN node selection at inter-CN node change)

UID 1809 (Terminal aspects of GTT) is deleted by T2.

Two new features have been added:

Speech Recognition and Speech Enabled Services

and

Generic User Profile

(detailed inputs available at: ftp://ftp.3gpp.org/Information/WORK_PLAN/inputs_considered)

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1	2044	VERSION 2001 December 12th		No															
2	1462	"CTRL + a" to display all the 3GPP fields		No															
3	2058	Content of Rel4 frozen. Rel5 and after not froz		No															
4																			
5	96			No															
6	2	Evolutions of the transport in the UTRAN	NA	Yes	TSG RAN														
7	625	IP transport in the UTRAN	Rel5	No	WG RAN3														
8	12	QoS optimisation for AAL2 connections over Iu	Rel4	No	WG RAN3														
9	1995	Transport bearer modification procedure on Iu	Rel4	No	WG RAN3														
10	2257	Evolution of transport in UTRAN and GERAN	Rel5	No	WG RAN3														
11	2258	Addition of transport mechanisms other than ATM for Iu - I		No	WG RAN3														
12	2259	Addition of transport mechanisms other than ATM for Iu -		No	WG RAN3														
13	1834	Conformance Test Aspects		No	WG T1														
14	2208	Testing RAB support enhancements		No	WG T1														
15	4	Evolutions of the transport in the CN	NA	Yes	WG CN4														
16	859	IP Transport of CN protocols (e.g., CAP, MAP)	Rel4	No	WG CN4														
17	1679	Stage 3		No	WG CN4														
18	2018	CAP		Yes	WG CN2														
19	2019	MAP		No	WG CN4														
20	2253	BSSAP+		No	WG CN1														
21	2455	FS on Usage of SUA	Rel5	No	WG CN4														
22	1513	FS on Transport and control separation in the P	Rel4	No	WG SA2														
23	1615	Architectural impacts		No	WG SA2														
24	2476	High Speed Downlink Packet Access	Rel5	No	WG RAN2														
25	2477	Physical Layer		No	WG RAN1														
26	2478	Layer 2 and 3 aspects		No	WG RAN2														
27	2479	Iu/Iur protocol aspects		No	WG RAN3														
28	2480	RF Radio Transmission/ Reception, System Perf		No	WG RAN4														

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						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
29	1216	Improvements of Radio Interface	NA	Yes	TSG RAN														
30	1470	Improvement of inter-frequency and inter-system	Rel5	No	WG RAN1														
31	1471	Base station classification	Rel5	No	WG RAN4														
32	1476	FDD Base station classification		No	WG RAN4														
33	1477	TDD Base station classification		No	WG RAN4														
34	24002	Base Station Classification for 1.28 Mcps TDD option		No	WG RAN4														
35	1217	Hybrid ARQ II/III	Rel5	No	WG RAN2														
36	1218	Improved usage of downlink resource in FDD for		No	WG RAN2														
37	1507	Terminal Power Saving features		No	WG RAN2														
38	1509	UTRA repeater specification (master)	Rel4	No	WG RAN4														
39	1994	DSCH power control improvement in soft hando	Rel4	No	WG RAN1														
40	1996	UMTS 1800	el indep	No	WG RAN4														
41	2467	UMTS 1900	el indep	No	WG RAN4														
42	2468	Multiple Input Multiple Output antennas (MIMO)	Rel6	No	WG RAN1														
43	2469	Enhancement on the DSCH hard split mode	Rel5	No	WG RAN1														
44	2471	FS on Fast Cell Selection (FCS) for HS-DSCH	Rel5	No	WG RAN1														
45	1506	FS on Radio link performance enhancements	Rel5	No	WG RAN1														
46	1219	FS on High Speed downlink packet access		No	WG RAN2														
47	1221	FS on USTS	Rel5	No	WG RAN1														
48	1510	FS on improved common DL channel for Cell-FA		No	WG RAN2														
49	1997	FS on UE antenna efficiency test method perform	Rel5	No	WG RAN4														
50	2494	FS on the re-introduction of the downlink SIR m	Rel5	No	WG RAN4														
51	24001	FS on UTRA WideBand Distribution Systems	Rel5	No	WG RAN4														
52	2493	FS on mitigating the effect of CPICH interferenc	Rel5	No	WG RAN4														
53	24003	FS for the viable deployment of UTRA in additional and diverse	Rel6	No	WG RAN4														
54	0	TO BE COMPLETED: FS on considering deployr		No															
55	1839	Conformance Test Spec. improvements in Radic		No	WG T1														
56	2210	Testing improvement of inter-frequency and inter-system r		No	WG T1														

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57	2211	Testing Hybrid ARQ II/III		No	WG T1														
58	2212	Testing Improved usage of downlink resource in FDD for C		No	WG T1														
59	2213	Testing Terminal Power saving features		No	WG T1														
60	2214	Testing DSCH power control improvement in soft handove		No	WG T1														
61	2215	Testing UMTS 1800		No	WG T1														
62	41000	Testing UMTS 1900		No	WG T1														
63	2561	Testing UMTS 1800 - TTCN		No	WG T1														
64	41001	Testing UMTS 1900 - TTCN		No	WG T1														
65	9	RAN improvements	NA	Yes	TSG RAN														
66	656	RRM optimization for lur and lub	Rel5	No	WG RAN3														
67	23000	lur common transport channel efficiency optimisation		No	WG RAN3														
68	23001	lur neighbouring cell reporting efficiency optimisation		No	WG RAN3														
69	23002	Introduction of direct transport bearers between SRNC an		No	WG RAN3														
70	2488	RL Timing Adjustment	Rel5	No	WG RAN3														
71	2489	Separation of resource reservation and radio lir	Rel5	No	WG RAN3														
72	2490	Improvement of Radio Resource Management a	Rel5	No	WG RAN3														
73	2491	Re-arrangements of lub transport bearers	Rel5	No	WG RAN3														
74	23003	SRNS Relocation Procedure Enhancement	Rel5	No	WG RAN3														
75	655	Node B synchronisation for TDD	Rel4	No	WG RAN1														
76	624	RAB support enhancement - except Robust Hea		No	WG RAN2														
77	2206	RAB support enhancement - Robust Header Corr	Rel4	No	WG RAN2														
78	1680	Header compression removal/stripping in the R/	Rel5	No	TSG RAN														
79	1686	Unequal error protection in PS domain in the R/	Rel5	No	TSG RAN														
80	20999	Beamforming (to be completed)		No															
81	2472	Node B Synchronisation for 1.28 Mcps TDD	Rel5	No	WG RAN1														
82	1912	Start Testing		No	MLST														
83	2102	Conformance Test Aspects - RAN Improvements		No	WG T1														
84	2222	Testing Radio access bearer support enhancments		No	WG T1														

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85	2461	Testing RAB support enhancements-Robust Header Comp		Yes	WG T1														
86	1273	Provisioning of IP-based multimedia services	NA	Yes	WG SA1														
87	1274	Call control and roaming to support IMS in UMT	Rel5	No	WG SA2														
88	1633	Stage 1		No	WG SA1														
89	1514	Stage 2 (Architecture and Main flows)		No	WG SA2														
90	2233	SIP Call Control protocol for the IMS		No	WG CN1														
91	1998	IMS signalling flows		No	WG CN1														
92	1278	IMS stage 3		No	WG CN1														
93	2255	IMS Session Handling; stage 2		No	WG CN1														
94	2521	IETF: draft-ietf-sip-rtc2543bis (Session Initiation Protoc		No	WG CN1														
95	2522	IETF: draft-sip-manyfolks-resource (Without COMET)(No	WG CN1														
96	2523	IETF: draft-ietf-sip-100rel (Reliability of Provisional Res		No	WG CN1														
97	2524	IETF: draft-ietf-sip-privacy (SIP extensions for caller i		No	WG CN1														
98	2525	IETF: draft-ietf-sip-call-auth (SIP extensions for media		No	WG CN1														
99	11000	IETF: draft-ietf-sip-events (specific event notification)		No	WG CN1														
100	11001	IETF: draft-ietf-sip-refer (refer method)		No	WG CN1														
101	11002	IETF: draft-ietf-sip-dhcp (DHCP options for SIP server		No	WG CN1														
102	11003	IETF: draft-biggs-sip-replaces (SIP replaces header)		No	WG CN1														
103	11004	IETF: draft-ietf-avt-rtp-amr (AMR and AMR WB RTP ar		No	WG CN1														
104	11005	IETF: draft-ietf-mmusic-sdp-new (IPv6 support within :		No	WG CN1														
105	11006	IETF: draft-ietf-sip-serverfeatures (SIP supported hea		No	WG CN1														
106	1280	SIP SS and relationship to Mg, Mw and Cx		No	WG CN4														
107	1290	Addressing		No	WG SA2														
108	1291	Architectural issues		No	WG SA2														
109	1292	Impact on HSS		No	WG CN4														
110	2530	Service Examples		Yes	WG SA1														
111	2531	IMS Framework Report		Yes	WG SA1														
112	1298	Access Security for IMS	Rel5	No	WG SA3														

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
113	33000	SA3 task		No	WG SA3														
114	43000	IMS impacts on UICC		No	WG T3														
115	11014	SIP extensions for Integrity protection		No	WG CN1														
116	2574	Security Aspects of Requirement for Network Co	Rel5	No	WG SA3														
117	1299	Lawful interception		? Yes	WG SA3														
118	0	(copy) GERAN support of IMS		No	TSG GERAN														
119	2242	Charging Management for IMS	Rel5	No	WG SA5														
120	0	(copy) Charging and OAM&P		No	WG SA5														
121	0	(Copy) AMR-WB		? Yes	WG SA4														
122	0	(copy) End-to-end QoS		No	WG SA2														
123	2048	Interworking between IMS and IP networks		No	WG CN3														
124	1296	Impact on MM/CC/SM		No	WG CN1														
125	2047	Interworking between IMS and CS networks		No	WG CN3														
126	14000	SIP SS and relationship to Mg, Mw, Cx		? Yes	WG CN4														
127	2036	Multimedia codecs and protocols for conversati		No	WG SA4														
128	2039	Codecs		No	WG SA4														
129	2040	performance characterisation of codec		? Yes	WG SA4														
130	34006	recommendation for QoS parameter values for various me		No	WG SA4														
131	32003	SIP message compression		No	WG SA2														
132	32004	Stage 2		No	WG SA2														
133	11015	Compression signalling		No	WG CN1														
134	32005	IMS Local services		? Yes	WG SA2														
135	10001	Stage 3 description of IMS interfaces		No	TSG CN														
136	1286	Cx interface (HSS to CSCF)		No	WG CN4														
137	14001	MC interface (IM-MGW to MGCF) enhancements		? Yes	WG CN4														
138	11016	Mw interface (CSCF to P-CSCF)		No	WG CN1														
139	11017	Mm interface (CSCF to external IP multimedia network)		No	WG CN1														
140	14002	Mg interface (CSCF to MGCF - interworking with CS)		No	WG CN4														

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002			
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
141	11018	Mr interface (CSCF to MRF)		No	WG CN1															
142	14003	Dx interface (I-CSCF to SLF)	?	Yes	WG CN4															
143	13001	Go interface (GGSN to PCF)		No	WG CN3															
144	11019	ISC (IMS Service Control) Interface		No	WG CN1															
145	14006	Sh interface (HSS to AS)	?	Yes	WG CN4															
146	11020	Gm interface (UE to CSCF)		No	WG CN1															
147	1310	Support of VHE/OSA by entities and protocols o	?	Yes	WG CN5															
148	12000	Support of CAMEL by the IMS	?	Yes	WG CN2															
149	12001	General issues	?	Yes	WG CN2															
150	14004	SDM issues for CAMEL control of IMS	?	Yes	WG CN4															
151	31002	Pre-pay/real-time charging in IMS		No	WG SA1															
152	35005	Charging		No	WG SA5															
153	32006	Charging Implications of IMS architecture		No	WG SA2															
154	35006	Charging management for IMS		No	WG SA5															
155	10002	Other IETF dependencies		No	TSG CN															
156	11007	IETF: draft-ietf-sip-session-timer		No	TSG CN															
157	11008	IETF: draft-agrawal-sip-h323-interwrkng-reqs		No	TSG CN															
158	11009	IETF: draft-ietf-sip-callerprefs		No	TSG CN															
159	11010	IETF: draft-ietf-sip-state		No	TSG CN															
160	11011	IETF: draft-ietf-aaa-diameter		No	TSG CN															
161	11012	IETF: draft-ietf-sip-isup		No	TSG CN															
162	11013	IETF: draft-ietf-sip-isup-header		No	TSG CN															
163	1913	Start Testing		No	MLST															
164	1844	Conformance Test Aspects - Provisioning of IMS		No	WG T1															
165	34001	Extended Transparent End-to-End PS Streami	Rel5	No	WG SA4															
166	34002	Stage 1		No	WG SA1															
167	34003	Stage 2 (version Rel5 of TS 26.234)		No	WG SA4															
168	1652	Emergency call enhancements	NA	Yes	WG CN1															

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002						
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
169	1653	For IP & PS based calls	Rel5	No	WG CN1																		
170	1314	Service Requirements for IP-based emergency calls		No	WG SA1																		
171	1315	SIP emergency calls and packet emergency calls signallin		No	WG CN1																		
172	1316	Stage 2 for emergency calls and packet emergency calls i		No	WG SA2																		
173	1317	Distinction of emergency call types to different emergency		No	WG CN1																		
174	1646	Stage 3 for emergency calls and packet emergency calls i		No	WG CN1																		
175	2224	Conformance Test Aspects - Emergency call enhancemer		No	WG T1																		
176	2225	Testing Stage 3 for emergency calls and packet emergenc		No	WG T1																		
177	1654	For CS based calls	Rel4	No	WG CN1																		
178	1320	Distinction in CS domain of emergency call types to differe		No	WG SA1																		
179	1999	Distinction in CS domain of emergency calls to different er		No	WG CN1																		
180	2224	Conformance Test Aspects - Emergency call enhancemer		No	WG T1																		
181	2226	Testing CS based emergency calls		No	WG T1																		
182	2563	Testing CS based emergency calls - TTCN		No	WG T1																		
183	1517	Global Text Telephony	Rel5	No	WG SA2																		
184	1634	Stage 1		No	WG SA1																		
185	1519	Stage 2		No	WG SA2																		
186	2234	Specification of Cellular Text telephone Modem		No	WG SA4																		
187	2238	General description and C-code		No	WG SA4																		
188	2237	Minimum Performance requirements		No	WG SA4																		
189	1915	Start Testing		No	MLST																		
190	1852	Conformance Test Aspects - Global Text telephc		No	WG T1																		
191	1367	VHE enhancements	NA	Yes	WG SA1																		
192	2498	Global Stage 1 for VHE Enhancements		No	WG SA1																		
193	2104	Extensions to OSA to support VHE	Rel5	No	WG SA2																		
194	2106	Overall Stage 2		No	WG SA2																		
195	2107	Detailed Stage2 and Stage 3		No	WG CN5																		
196	1368	Detailed definition of the VHE user profile	Rel6	No	WG SA2																		

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197	1404	Stage 2		No	WG SA2														
198	2123	Enhanced Subscription Management & User Profile	Rel5	No	WG SA5														
199	0	(copy) OSA Stage 3	Rel5	No	WG CN5														
200	1637	OSA enhancements	NA	Yes	WG SA1														
201	2120	General Stage 2 for Rel4		No	WG SA2														
202	1424	Interactions OSA - e-commerce	Rel5	No	WG SA2														
203	1425	Stage 1		No	WG SA1														
204	1529	Stages 2 and 3		No	WG CN5														
205	1429	OSA APIs for MuMa CC	Rel5	No	WG SA2														
206	1430	Stage 1		No	WG SA1														
207	1530	Stages 2 and 3		No	WG CN5														
208	1419	OSA security	Rel5	No	WG SA3														
209	2121	Stage 1		No	WG SA1														
210	1420	Stage 2		No	WG SA2														
211	1421	Stage 3		No	WG SA3														
212	1422	security related SCF(s) definition		No	WG CN5														
213	1423	(possibly) changes required from supporting platforms, e.g		No	WG SA3														
214	1621	impact on terminal		No	WG T2														
215	1433	Retrieval of Terminal capabilities	Rel5	No	WG SA2														
216	1434	Stage 1		No	WG SA1														
217	1436	Stages 2 and 3		No	WG CN5														
218	2122	Provisioning of the terminal capabilities		No	WG T2														
219	1786	LCS - OSA interfaces	Rel5	No	WG SA1														
220	1787	Stage 1		No	WG SA1														
221	2124	Stage 2		No	WG SA2														
222	1788	Stage 3		No	WG CN5														
223	2538	Interaction with Rel-5 features	Rel5	No	WG SA1														
224	2539	Access to Presence information		No	WG SA1														

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225	2540	Access to User Profile		No	WG SA1														
226	2541	Policy Management		No	WG SA1														
227	2519	OSA Stage 3	Rel5	No	WG CN5														
228	15000	OSA evolution - Stages 2 and 3	Rel5	No	WG CN5														
229	0	General Stage 2 for Rel5		No	WG SA2														
230	1638	CAMEL phase 4	Rel5	No	WG SA1														
231	1461	Service requirements		No	WG SA1														
232	2011	Charging notification to the CSE		No	WG CN2														
233	2012	Call Party Handling		No	WG CN2														
234	2013	Mid call procedure for MO and MT calls		No	WG CN2														
235	2014	Interactions with Optimal Routing		No	WG CN2														
236	2015	Inclusion of flexible tone injection		No	WG CN2														
237	2016	CSE control over MT SMS		No	WG CN2														
238	2460	Notification of GPRS mobility management to C		No	WG CN2														
239	2459	Enhancement of dialled services		No	WG CN2														
240	2458	Provision of location information of called subs		No	WG CN2														
241	2514	Inclusion of ODB data in the CSE_HLR interface		No	WG CN2														
242	2515	Location information during an ongoing call (Ha		No	WG CN2														
243	2516	GPRS Any Time Interrogation		No	WG CN2														
244	2464	MExE enhancements Rel-5	Rel5	No	WG T2														
245	2465	MExE Rel-5 Security Analysis		No	WG T2														
246	2466	MExE Rel-5 Improvements and Investigations		No	WG T2														
247	1625	Wideband Telephony Service - AMR	Rel5	No	WG SA4														
248	62	Specification		No	WG SA4														
249	31005	Stage 1		No	WG SA1														
250	32007	Stage 2		No	WG SA4														
251	1459	Design Constraints		No	WG SA4														
252	1460	General Description		No	WG SA4														

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253	1626	Feasibility Study		No	WG SA4															
254	67	Codec issues		No	WG SA4															
255	1627	Codec qualification		No	WG SA4															
256	74	Codec selection tests		No	WG SA4															
257	891	Codec selection		No	WG SA4															
258	34007	TFO AMR-WB		No	WG SA4															
259	890	Other codec issues (verif., characterisation)		No	WG SA4															
260	34008	AMR-WB and narrowband interworking		No	WG SA4															
261	34009	Interworking with fixed broadband networks		No	WG SA4															
262	34010	Tones and announcements		No	WG SA4															
263	34011	WB Conferencing and WB Voice Group calls		No	WG SA1															
264	34012	Billing, accounting and call detail record aspects		No	WG SA5															
265	34013	Legal interception		No	WG SA3															
266	14999	Introduction of AMR-WB speech service		No	WG CN4															
267	1989	Start Testing		No	MLST															
268	1855	Conformance tests (CRs to 34 series)		No	WG SA1															
269	76	Terminal Acoustic Characteristics		No	WG SA4															
270	1628	Definition		No	WG SA4															
271	1629	Test specification		No	WG SA4															
272	34004	Floating-point ANSI-C code for the AMR-WB spe		No	WG SA4															
273	889	Implementation		No	WG SA4															
274	893	In UTRAN		No	TSG RAN															
275	34014	Codec selection and GSM-UTRAN interworking		No	TSG RAN															
276	34015	Radio Access Bearer optimisation		No	TSG RAN															
277	34016	Radio Access Bearer renegotiation (impact at least on		No	TSG RAN															
278	80	Support of AMR-WB in GERAN		No	TSG GERAN															
279	2265	GMSK and 8PSK WB FR / HR support - Channel codir		No	TSG GERAN															
280	2266	GMSK and 8PSK WB FR / HR support - Signalling for		No	TSG GERAN															

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281	2267	GMSK and 8PSK WB FR / HR support - Signalling for I		No	TSG GERAN														
282	2268	Receiver performance in TS 45.005		No	TSG GERAN														
283	50000	Adaptation of subscriber data in HLR/VLR		No	TSG GERAN														
284	2269	GERAN MS conformance test for AMR-WB		No	TSG GERAN														
285	2270	MS test		No	TSG GERAN														
286	2271	GERAN BTS conformance test for AMR-WB		No	TSG GERAN														
287	2272	BTS test		No	TSG GERAN														
288	1656	N1 Aspects		No	WG CN1														
289	14005	N4 work		No	WG CN4														
290	1826	Terminal interfaces	NA	Yes	WG T2														
291	1827	AT commands enhancements	Rel4	No	WG T2														
292	1828	Specification of AT commands for new services		No	WG T2														
293	1858	UE Conformance test spec. AT command		No	WG T1														
294	1829	Wide Area Data Synchronisation	NA	Yes	WG T2														
295	1830	Continues evolution of Synchronisation protocol	Rel4	No	WG T2														
296	1831	vObjects and Other Constructs for Use in Data Synchroni	Rel5	No	WG T2														
297	1832	Terminal local model	Rel4	No	WG T2														
298	2573	Terminal local model enhancements	Rel5	No	WG T2														
299	1536	Location Services enhancements	NA	Yes	WG SA2														
300	2229	CBS interactions	Rel4	No	WG T2														
301	523	LCS support in the CS domain	Rel4	No	WG SA2														
302	525	LCS support in the PS domain	Rel4	No	WG SA2														
303	1642	Stage 1		No	WG SA1														
304	1181	Stage 2		No	WG SA2														
305	1180	Stage 3		No	WG CN1														
306	526	Layer 3 LCS signaling UE (MS) -SGSN (UMTS PS and		No	WG CN1														
307	2462	MAP impacts of LCS		No	WG CN4														
308	527	GTP signaling for LCS		No	WG CN4														

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309	1600	UE positioning	NA	No	TSG RAN																		
310	1601	Iub/Iur interfaces for methods Rel 99	Rel4	No	WG RAN3																		
311	1602	UE positioning enhancements - IPDL for TDD	Rel4	No	WG RAN2																		
312	2457	UE positioning enhancements - other methods	Rel5	No	WG RAN2																		
313	2474	UE positioning enhancements for 1.28 Mcps TDD	Rel5	No	WG RAN2																		
314	2475	Open SMLC-SRNC Interface within the UTRAN to support I	Rel5	No	WG RAN2																		
315	2125	Open SMLC-SRNC Interface within the UTRAN to support ,	Rel5	No	WG RAN2																		
316	2127	Stage 2		No	WG SA2																		
317	1171	Event based and Periodic LCS	Rel5	No	WG SA1																		
318	1641	Stage 1		No	WG SA1																		
319	1538	Stage 2 specification		No	WG SA2																		
320	1179	Impact on MAP		No	WG CN4																		
321	2436	Location Services for GERAN in A/Gb Mode	Rel5	No	TSG GERAN																		
322	2437	GERAN LCS Stage 2 (first release)		No	AN2;WG SA2																		
323	2438	Gb interface support for LCS		No	TSG GERAN																		
324	2439	RLC/MAC protocol support for LCS		No	TSG GERAN																		
325	2440	L3 protocol support for LCS		No	TSG GERAN																		
326	2441	Stage 3 specifications		No	TSG GERAN																		
327	2442	Location Services for GERAN in Iu Mode	Rel5	No	TSG GERAN																		
328	2443	GERAN LCS Stage 2 (second release)		No	AN3;WG SA2																		
329	2444	Iu-ps interface support for LCS		No	AN3;WG SA2																		
330	2445	Iu-cs interface support for LCS		No	AN3;WG SA2																		
331	2446	Iur-g interface support for LCS		No	AN3;WG SA2																		
332	2447	RRC protocol support for LCS		No	AN3;WG SA2																		
333	2448	Additional impacts on Broadcast of LCS data on packet ch		No	AN3;WG SA2																		
334	2449	Stage 3 specifications		No	AN3;WG SA2																		
335	32001	Enhanced support for user privacy and subscrib	Rel5	No	WG SA2																		
336	544	LCS interoperation stage 2 aspects		No	WG SA2																		

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337	2434	LCS interoperability aspects to GERAN		No	TSG GERAN														
338	2435	Co-ordinated development of GSM LCS Phase 2 and UMTS		No	VG GERAN1														
339	2450	GERAN MS Conformance test for LCS		No	WG GERAN4														
340	2451	MS test		No	WG GERAN4														
341	2452	GERAN BTS Conformance test for LCS		No	WG GERAN3														
342	2453	BTS test		No	WG GERAN3														
343	0	(Copy) LCS application interfaces (LCS-OSA)		No	WG SA1														
344	1183	FS on LCS support in the IMS		No	WG SA1														
345	0	(copy) Charging and OAM&P	Rel5	No	WG SA5														
346	521	New security aspects of LCS (not identified)	Rel5	No	WG SA3														
347	1560	UICC/(U)SIM enhancements and interworking	NA	Yes	WG T3														
348	1799	Common PCN Handset Specification (CPHS)	Rel4	No	WG T3														
349	2517	UICC/USIM Transport Protocol	Rel5	No	WG T3														
350	1800	(U)SIM toolkit enhancements	NA	Yes	WG T3														
351	2034	USAT local link	Rel4	No	WG T3														
352	1566	Enhancements to (U)SIM toolkit secure messagii	Rel5	No	WG T3														
353	1801	Protocol Standardisation of a SIM Toolkit Interp	Rel5	No	WG T3														
354	2497	Stage 1	Rel5	No	WG T3														
355	2496	Stage 2 and 3	Rel5	No	WG T3														
356	2518	Test specification	Rel5	No	WG T3														
357	1802	UICC API	NA	Yes	WG T3														
358	2031	C SIM API	Rel5	No	WG T3														
359	2032	Specification		No	WG T3														
360	2033	Test specification		No	WG T3														
361	1571	Security enhancements	NA	No	WG SA3														
362	2099	New: UE triggered authentication during connec	Rel4	No	WG SA3														
363	1587	Evolution of GSM CS algorithms (e.g. A5/3 deve	Rel4	No	WG SA3														
364	1588	Evolution of GSM PS algorithms (e.g. GEA 2 dep	Rel4	No	WG SA3														

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365	1589	Main aspects		No	WG SA3														
366	1618	Impact on GTP		No	WG CN4														
367	1661	GEA capability indication in MS CM		No	WG CN1														
368	1583	MAP application layer security	Rel4	Yes	WG SA3	◆													
369	1584	Main aspects		No	WG SA3														
370	2025	Other stage 3 aspects		No	WG CN4														
371	1594	Visibility and Configurability of security	Rel5	No	WG SA3	◆													
372	1576	Network domain security	Rel5	Yes	WG SA3	◆													
373	1577	Control plane protection in core network (e.g., GTP, CAP, I		No	WG SA3	◆													
374	1578	Main aspects		No	WG SA3	◆													
375	1579	Integration of GTP signalling security architecture		No	WG CN4	◆													
376	1580	User plane protection in core network (e.g., provided by IF		No	WG SA3	◆													
377	1581	Main aspects		No	WG SA3	◆													
378	1582	Integration of GTP signalling security architecture		No	WG CN4	◆													
379	2576	IP network layer security (NDS/IP)		No	WG SA3	◆													
380	1586	Key management for core network security		No	WG SA3	◆													
381	2098	Study of network-based denial of service		No	WG SA3	◆													
382	1595	FIGS	Rel5	No	WG SA3	◆													
383	2026	Enhanced HE control of security (including posi	Rel6	No	WG SA3	◆													
384	2027	Stage 2		No	WG SA3	◆													
385	2028	FS on Network impacts		No	WG CN4	◆													
386	1861	Miscellaneous UE Conformance Testing Activ	NA	Yes	WG T1	◆													
387	1862	Optimisation of Test Time, RF Aspects (FDD)		No	WG T1	◆													
388	1863	Optimisation of Test Time, RF Aspects (TDD)		No	WG T1	◆													
389	1907	Extensions to R99 Test cases		No	WG T1	◆													
390	2564	Extension to R99 Test cases - TTCN		No	WG T1	◆													
391	2565	Creation of R99 TCs for TDD - prose		No	WG T1	◆													
392	2566	Creation of R99 TCs for TDD - TTCN		No	WG T1	◆													

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393	1908	Review all other work items for impact on new c		No	WG T1														
394	1365	Support of Push Services	Rel5	No	A2;WG SA1														
395	31004	Stage 1		No	WG SA1														
396	32000	TR on feasibility study		No	WG SA2														
397	1142	Charging and OAM&P (Master)	NA	No	WG SA5														
398	2089	Rel4 Principles, high level Requirements and Ar	Rel4	No	WG SA5														
399	35002	Rel5 Principles, high level Requirements and Ar	Rel5	No	WG SA5														
400	2088	Rel4 Performance Management	Rel4	No	WG SA5														
401	35003	Rel5 Performance Management	Rel5	No	WG SA5														
402	2081	Fault Management	Rel4	No	WG SA5														
403	2082	Configuration Management	Rel4	No	WG SA5														
404	2083	Rel4 Charging Management	Rel4	No	WG SA5														
405	35004	Rel5 Charging Management	Rel5	No	WG SA5														
406	2071	UTRAN Operations and Maintenance procedure	Rel4	No	WG SA5														
407	35001	Network Infrastructure Management	Rel5	No	WG SA5														
408	2062	Subscription Management	Rel5	No	WG SA5														
409	2243	Intra Domain Connection of RAN Nodes to Mu	Rel5	No	WG SA2														
410	2244	Overall System Architecture		No	WG SA2														
411	20000	Stage 3: RAN node selecting CN node		No	WG RAN3														
412	2246	GERAN work		No	WG GERAN2														
413	2248	N1 work		No	WG CN1														
414	2249	N4 work		No	WG CN4														
415	2320	GERAN improvements 3 (new transport layer c	Rel5	No	TSG GERAN														
416	2321	Evolution of the transport for A		No	TSG GERAN														
417	2322	Definition of a new A/Ater interface Transport Layer optio		No	TSG GERAN														
418	2323	Adaptation of the Layer 3 BSSMAP procedures as require		No	TSG GERAN														
419	2330	GERAN support for IMS	Rel5	No	TSG GERAN														
420	2331	GERAN Header adaptation		No	A2;TSG RAN														

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421	2332	Definition of compression and removal modes for PDCP pr		No	A2;TSG RAN														
422	2333	Conceptual description in stage 2		No	A2;TSG RAN														
423	2334	Necessary changes on stage 3 regarding header removal		No	A2;TSG RAN														
424	2335	GERAN Radio access bearer design for IMS		No	A2;TSG RAN														
425	2422	MuM control signalling for conversational multimedia servic		No	A2;TSG RAN														
426	2431	Identification of requirements		No	A2;TSG RAN														
427	2337	Necessary modifications due to SIP		No	A2;TSG RAN														
428	2338	Physical layer multiplexing		No	TSG GERAN														
429	2339	Stage 2		No	TSG GERAN														
430	2432	Stage 3		No	TSG GERAN														
431	2341	GERAN MS Conformance test for support of IMS		No	TSG GERAN														
432	2342	MS test		No	WG GERAN4														
433	2343	GERAN BTS Conformance test for support of IMS		No	TSG GERAN														
434	2344	BTS test		No	WG GERAN3														
435	2345	Alignment of 3G functional split and lu	Rel5	No	TSG GERAN														
436	2346	GERAN user / control plane		No	TSG GERAN														
437	2347	Alignment with UMTS bearer concept		No	TSG GERAN														
438	50300	Enhanced power control		No	TSG GERAN														
439	2423	Stage 2		No	TSG GERAN														
440	2348	Adoption of the UTRAN PDCP		No	TSG GERAN														
441	2349	Development of RLC / MAC		No	WG GERAN2														
442	2350	Development of GERAN RRC		No	WG GERAN2														
443	2351	Ciphering and integrity protection Concept paper		No	WG GERAN2														
444	50302	Multiple TBF or equivalent Concept paper		No	WG GERAN2														
445	50303	Paging concept		No	WG GERAN2														
446	2352	Dedicated physical subchannels. Includes traffic and		No	WG GERAN1														
447	2353	Iu support and broadcast concept		No	WG GERAN2														
448	2354	Impact of using RLC instead of LAPDm concept		No	WG GERAN2														

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449	2355	Contention resolution, mobile station identity, and acc		No	WG GERAN2														
450	50304	PDCP concept		No	WG GERAN2														
451	50305	Downlink delayedTBF release		No	WG GERAN2														
452	50306	Add transparent RLC Concept		No	WG GERAN2														
453	50307	Handover concept		No	WG GERAN2														
454	2424	Physical layer alignment with UMTS bearer concept		No	TSG GERAN														
455	2356	PDTCH/TCH in 45.003		No	TSG GERAN														
456	2357	Control channels in 45.003		No	TSG GERAN														
457	2358	Receiver performance in 45.005 for PDTCH/TCH and		No	TSG GERAN														
458	2359	lu rg interface		No	TSG GERAN														
459	2425	Inter BSS interface		No	TSG GERAN														
460	2360	Identification of requirements		No	TSG GERAN														
461	2361	Stage 2		No	TSG GERAN														
462	2362	Adoption of relevant parts from lur		No	TSG GERAN														
463	2363	Complementation with GERAN specifics		No	TSG GERAN														
464	2364	New stage 3		No	TSG GERAN														
465	2426	Inter BSS-RNS interface		No	N;WG RAN3														
466	2365	Identification of requirements		No	N;WG RAN3														
467	2366	Stage 2		No	N;WG RAN3														
468	2367	Adoption of relevant parts from lur		No	N;WG RAN3														
469	2368	Complementation with GERAN specifics		No	N;WG RAN3														
470	2369	New stage 3		No	N;WG RAN3														
471	2370	Voice over GERAN PS and CS concept		No	N;WG RAN3														
472	2371	Architecture for A, lu cs and lu ps		No	N;WG RAN3														
473	2372	Transcoder position/operation		No	TSG GERAN														
474	2373	Handover		No	N;WG RAN3														
475	2374	RTP payload		No	N;WG RAN3														
476	2375	Codec renegotiation concept		No	N;WG RAN3														

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
477	2376	LA		No	TSG GERAN														
478	2377	GERAN Narrowband speech realization		No	TSG GERAN														
479	2427	8-PSK NB HR		No	WG GERAN1														
480	2378	Channel coding in 45.003		No	WG GERAN1														
481	2379	Signalling for A interface		No	WG GERAN1														
482	2380	Signalling for lu		No	WG GERAN1														
483	2381	Link adaptation in 45.009		No	WG GERAN1														
484	2382	Receiver performance in 45.005		No	WG GERAN1														
485	2428	8-PSK NB QR		No	TSG GERAN														
486	2383	Channel coding in 45.003		No	TSG GERAN														
487	2384	Signalling for A interface		No	TSG GERAN														
488	2385	Signalling for lu		No	TSG GERAN														
489	2386	Link adaptation in 45.009		No	TSG GERAN														
490	2387	Receiver performance in 45.005		No	TSG GERAN														
491	2388	GERAN MS Conformance test for GERAN interfa		No	TSG GERAN														
492	2389	MS test		No	TSG GERAN														
493	2390	GERAN MS Conformance test for GERAN interfa		No	TSG GERAN														
494	2391	BSS test		No	TSG GERAN														
495	2392	GERAN enhancements for streaming services	Rel5	No	TSG GERAN														
496	2393	GERAN enhancements for streaming services 1		No	TSG GERAN														
497	2394	Concept		No	TSG GERAN														
498	2395	RLC protocol enhancement (SDU Discard)		No	TSG GERAN														
499	2396	GERAN enhancements for streaming services	Rel5	No	TSG GERAN														
500	2397	GERAN enhancements for streaming services 2		No	TSG GERAN														
501	2398	Usage of ECSD Concept		No	TSG GERAN														
502	2399	Stage 2		No	TSG GERAN														
503	2400	Stage 3		No	TSG GERAN														
504	2401	RLC PDU formats		No	TSG GERAN														

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002						
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
505	2402	MAC header		No	TSG GERAN																		
506	2412	GERAN/UTRAN interface evolution 1 (evolutio	Rel5	No	N;WG RAN3																		
507	2413	Evolution of lu ps		No	N;WG RAN3																		
508	2414	Identification of GERAN requirements on lu ps		No	N;WG RAN3																		
509	2415	Update of specifications		No	N;WG RAN3																		
510	2416	GERAN/UTRAN interface evolution 2 (evolutio	Rel5	No	N;WG RAN3																		
511	2417	Evolution of lu cs		No	N;WG RAN3																		
512	2418	Identification of GERAN requirements on lu cs		No	N;WG RAN3																		
513	2419	Update of specifications		No	N;WG RAN3																		
514	2499	Support of Presence Capability	Rel5	No	WG SA1																		
515	2501	Stage 1		No	WG SA1																		
516	2502	Stage 2		No	WG SA2																		
517	2503	Stage 3		No	TSG CN																		
518	2504	Security issues		No	WG SA3																		
519	2505	USIM issues		No	WG T3																		
520	2506	UE issues		No	WG T2																		
521	2507	Display of Service Provider name on UE	Rel5	No	WG SA1																		
522	2508	Stage 1		No	WG SA1																		
523	2509	del if not in WID - Stage 2		No	WG SA2																		
524	2510	Stage 3		No	TSG CN																		
525	2511	Security issues		No	WG SA3																		
526	2512	USIM issues		No	WG T3																		
527	2520	User Equipment Management	Rel5	No	WG SA5																		
528	35000	FS on User Equipment (UE) Management		No	WG SA5																		
529	2527	Emergency calls without UICC/SIM in netw. wi	Rel5	No	WG SA2																		
530	0	Stage 2		No	WG SA2																		
531	2528	Stage 3 work for CN1		No	WG CN1																		
532	2556	End to End QoS for PS Domain including IMS	Rel5	No	WG SA2																		

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
533	2557	E2E QoS Concept and Architecture		No	WG SA2	[Timeline bar]													
534	2558	E2E QoS interworking		No	WG CN3	[Timeline bar]													
535	2559	QoS Management (Provisioning and Monitoring)		No	WG SA5	[Timeline bar]													
536	2569	Messaging enhancements Rel-5	Rel5	No	WG T2	[Timeline bar]													
537	2571	Multimedia Messaging (MMS) enhancements		No	WG T2	[Timeline bar]													
538	31000	Definition of service requirements		No	WG SA1	[Timeline bar]													
539	42000	Technical realization		No	WG T2	[Timeline bar]													
540	2572	Enhanced Messaging Service (EMS) enhancements		No	WG T2	[Timeline bar]													
541	31001	Definition of service requirements		No	WG SA1	[Timeline bar]													
542	42001	Technical realization		No	WG T2	[Timeline bar]													
543	50001	GERAN Inter BSC NACC improvements over TS 29.060	Rel 5	No	TSG GERAN	[Timeline bar]													
544	14501	Modification of core network protocols for GERAN		No	TSG GERAN	[Timeline bar]													
545	32502	Stage 2 - Concept		No	TSG GERAN	[Timeline bar]													
546	14502	Stage 2 - 23.060 change - Definition of Inter BSC NACC		No	TSG GERAN	[Timeline bar]													
547	14503	Stage 3 (changes to TS 29.060)		No	WG CN4	[Timeline bar]													
548	50002	Modification of Gb protocols for GERAN Inter BS		No	TSG GERAN	[Timeline bar]													
549	50003	Stage 3 (changes to TS 48.018)		No	TSG GERAN	[Timeline bar]													
550	50033	Enhanced Power Control	Rel5	No	TSG GERAN	[Timeline bar]													
551	50034	Realization of Enhanced power control and signaling		No	TSG GERAN	[Timeline bar]													
552	50035	GERAN MS Conformance test for Enhanced Power Control		No	TSG GERAN	[Timeline bar]													
553	50036	GERAN BTS Conformance test for Enhanced Power Control		No	TSG GERAN	[Timeline bar]													
554	50037	8PSK AMR HR	Rel5	No	TSG GERAN	[Timeline bar]													
555	50038	Definition of channel coding, performance requirements		No	TSG GERAN	[Timeline bar]													
556	50039	GERAN MS Conformance test for 8PSK HR		No	TSG GERAN	[Timeline bar]													
557	50040	GERAN BTS Conformance test for 8PSK HR		No	TSG GERAN	[Timeline bar]													
558	50041	Uplink TDOA feasibility study	Rel5	No	TSG GERAN	[Timeline bar]													
559	50042	Performing a feasibility study		No	TSG GERAN	[Timeline bar]													
560	13000	Service Change and UDI Fallback	Rel5	No	WG CN3	[Timeline bar]													

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002						
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
561	2544	Multimedia Broadcast and Multimedia Service	Rel6	No	WG SA1																		
562	2545	Stage 1		No	WG SA1																		
563	32002	Stage 2		No	WG SA2																		
564	2481	Enhancement of Broadcast and Introduction of I		No	WG RAN2																		
565	31006	Speech Recognition and Speech Enabled Ser	?	No	WG SA1																		
566	31007	Speech Enabled Services Based on Distributed		No	WG SA1																		
567	32999	Stage 2 of DSR		No	WG SA2																		
568	0	SDP protocols extension to include DSR		No	TSG CN																		
569	31008	Generic User Profile	Rel6	No	WG SA1																		
570	31009	Stage 1 - Requirements		No	WG SA1																		
571	42002	Stage 2 - Data description framework		No	WG T2																		
572	32008	Stage 2 - Architecture		No	WG SA2																		
573	42003	Stage 3 - Common objects		No	WG T2																		
574	31010	Digital Rights Management	Rel6	No	WG SA1																		
575	31011	Requirements		No	WG SA1																		
576	32009	Architecture		No	WG SA2																		
577	33001	Security		No	WG SA3																		
578	34017	Codec Aspects		No	WG SA4																		
579	42004	Terminal Aspects		No	WG T2																		
580	31012	FS on WLAN-UMTS Interworking	Rel6	No	WG SA1																		
581	30000	FS on Priority Service	Rel6	No	TSG SA																		
582	31013	UE Functionality Split	Rel6	No	WG SA1																		
583	0	Stage 2		No	WG SA2																		
584	1340	Facsimile	Rel4	No	WG SA1																		
585	1341	Real Time Fax		No	WG SA2																		
586	1808	Terminal capabilities, AT commands		No	WG T2																		
587	1343	Signalling aspects (e.g. ICM)		No	WG CN1																		
588	1648	Service provision		No	WG CN3																		

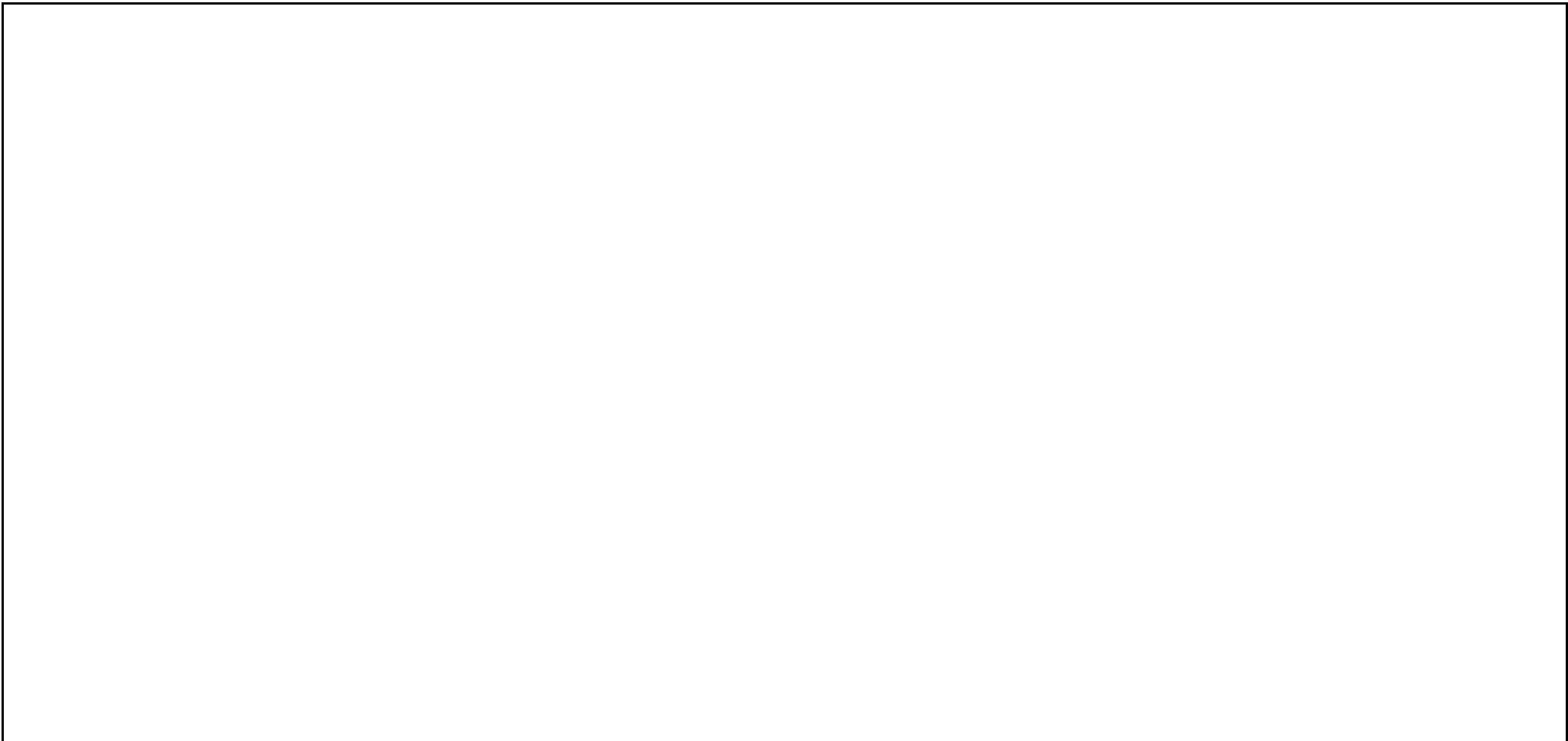
ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
589	1345	Review whether service/stage 1 aspects need to be align		No	WG SA1														
590	1346	Review whether architecture/stage 2 aspects need to be		No	WG SA2														
591	1539	Transparent End-to-End PS mobile streaming :	Rel4	No	WG SA4														
592	1818	Multimedia Messaging	Rel4	No	WG T2														
593	136	Definition of service requirements		No	WG SA1														
594	1819	Review of definition of service requirements		No	WG T2														
595	1820	Technical Realisation		No	WG T2														
596	1821	Review of definition of reference Achitecture model		No	WG T2														
597	1822	"Fulfill Requirements of Stage 1"		No	WG T2														
598	1823	Definition of MMS primitives in Stage 2		No	WG T2														
599	1541	Transcoder-Free Operation	Rel4	No	WG CN4														
600	112	OoBTC solution		No	WG CN4														
601	1512	implementation in UTRAN		No	WG RAN3														
602	896	Impact on architecture, Principles and Terminology		No	WG SA2														
603	1657	Codec Negotiation between UE and MSC		No	WG CN1														
604	115	Codec Negotiation inter MSC		No	WG CN4														
605	894	Bearer establishment inter MSC		No	WG CN4														
606	1617	Prevention of user fraud		No	WG SA3														
607	905	Speech Transcoder: Location and Control at the		No	WG SA2														
608	124	Transcoder at Edge		No	TSG CN														
609	2310	GERAN improvements 1 (Gb over IP)	Rel4	No	TSG GERAN														
610	2311	Gb over IP (Ip-fication of Gb)		No	TSG GERAN														
611	2312	Concept		No	TSG GERAN														
612	2313	Changes to 08.16, 08.18		No	TSG GERAN														
613	2314	GERAN improvements 2 (NACC)	Rel4	No	TSG GERAN														
614	2315	Gb enhancements		No	TSG GERAN														
615	2316	NACC (Network Assisted Cell Change)		No	TSG GERAN														
616	2420	Concept		No	TSG GERAN														

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
617	2317	Changes in 03.64		No	TSG GERAN	█													
618	2318	Changes in 04.60		No	TSG GERAN	█													
619	2319	Changes in 44.008		No	TSG GERAN	█													
620	50030	NMS conformance test for Intra BSC NACC		No	TSG GERAN														
621	2324	GERAN improvements 4 (Delayed TBF)	Rel4	No	TSG GERAN	█													
622	2325	Gb enhancements 2		No	TSG GERAN	█													
623	2429	stage 2		No	TSG GERAN	█													
624	2421	Stage 3 (changes in 44.060)		No	WG GERAN2														
625	2327	Definition of enhanced countdown procedure		No	WG GERAN2														
626	2328	Definition of enhanced TBF release procedure		No	WG GERAN2														
627	2329	Definition of USF=FREE type polling mechanism on PD		No	WG GERAN2														
628	1222	Low Chip Rate TDD option	Rel4	No	WG RAN1	█	█	█	█	█	█	█	█	█	█	█	█	█	
629	1223	Physical layer		No	WG RAN1														
630	1224	Layer 2 and layer 3 protocol aspects		No	WG RAN2														
631	1225	RF radio transmission/reception, system perform		No	WG RAN4														
632	1227	UE radio access capability		No	WG RAN2														
633	1228	lub/lur protocol aspects		No	WG RAN3														
634	2262	Low chiprate TDD interworking with GERAN		No															
635	2263	Handover and Cell Selection / Reselection to UTRA 1.28 M		No															
636	1911	Start Testing		No	MLST														
637	2103	Conformance Test Aspects - Low Chip Rate TDD		No	WG T1														
638	2217	Testing Layer 2 and layer 3 protocol aspects		No	WG T1														
639	2562	Testing Layer 2 and layer 3 protocol aspects - TTCN		No	WG T1														
640	2218	Testing RF Radio Transmission and Reception		No	WG T1														
641	1322	Enable bearer independent CS architecture	Rel4	No	WG SA2	█	█	█	█	█	█	█	█	█	█	█	█	█	
642	1323	Enable bearer-independent call control		No	WG CN4	█													
643	1516	Architecture and Stage 2 description		No	WG SA2														
644	1325	Standardisation of protocols (control & user planes) over		No	WG CN3														

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
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645	1326	Standardisation of protocols over reference points between		No	WG CN4														
646	1616	Standardisation of detailed stage 2 description		No	WG CN4														
647	1327	Bearer control between MSC server and MGW		No	WG CN4														
648	1328	stage 3 - protocol issues		No	WG CN4														
649	1329	stage 3 - parameter value issues		No	WG CN3														
650	1331	Lawful interception		No	WG SA3														
651	1918	Start Testing		No	MLST														
652	2052	Conformance Test Aspects - Enable bearer inde		No	WG T1														
653	1445	MExE enhancements Rel-4	Rel4	No	WG T2														
654	1447	MExE Security Analysis Activity		No	WG SA3														
655	2045	Stage 3		No	WG SA3														
656	1448	Terminal aspects		No	WG T2														
657	1810	MExE Rel4 Improvements and Investigations		No	WG T2														
658	1812	3rd MExE classmark		No	WG T2														
659	1814	FS on Secure download mechanism and capabilities to sup		No	WG T2														
660	1815	FS on Support of MP3/MPEG4 content		No	WG T2														
661	1631	Tandem Free aspects for 3G and between 2G a	Rel4	No	WG SA4														
662	1632	Tandem Free AMR		No	WG SA4														
663	130	Specification		No	WG SA4														
664	907	Impact on:		No	TSG CN														
665	131	CN		No	TSG CN														
666	132	GERAN		No	TSG GERAN														
667	2230	Advanced Speech Call Items enhancements_F	Rel4	No	WG CN1														
668	2232	Stage 2		No	WG CN4														
669	2231	Stages 2 and 3 on A interface		No	WG CN1														
670	2403	700 MHz spectrum support	Rel4	No	TSG GERAN														
671	2404	GERAN support for the 700 MHz band		No	TSG GERAN														
672	2405	Signalling support		No	TSG GERAN														

ID	Unique_ID	Name	Release	Split	Resource Name	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
673	2406	Physical layer definitions		No	TSG GERAN														
674	2407	Receiver performance and RF budget		No	TSG GERAN														
675	2408	GERAN MS Conformance test for 700 MHz band		No	TSG GERAN														
676	2409	MS test		No	TSG GERAN														
677	2410	GERAN BTS Conformance test for 700 MHz band		No	TSG GERAN														
678	2411	BTS test		No	TSG GERAN														
679	2463	Operator Determined Barring for Packet Orier	Rel4	No	TSG CN														
680	2546	UMTS QoS Architecture for PS Domain	Rel4	No	WG SA2														
681	2547	Requirements		No	WG SA1														
682	2548	Architecture		No	WG SA2														
683	1624	Security aspects		No	WG SA3														
684	2550	Charging and QoS Management		No	WG SA5														
685	2551	IE for QoS PS Domain		No	WG CN1														
686	2552	Interwork with External Networks		No	WG CN3														
687	1681	RAB Quality of Service (re)Negotiation over lu		No	WG RAN3														
688	1991	RAB Quality of Service Negotiation over lu		No	WG RAN3														
689	2456	RAB Quality of Service Negotiation over lu during relocatic		No	WG RAN3														
690	1992	RAB Quality of Service Re-Negotiation over lu		No	WG RAN3														
691	1553	GERAN QoS Aspects - Handovers: maintenance		No	TSG GERAN														
692	2306	Handover Concept for the PS domain		No	TSG GERAN														
693	2309	Stable RT handover report 25.936 including header re		No	TSG GERAN														
694	2307	Update of stage 2		No	TSG GERAN														
695	2308	Update of relevant stage 3 specs -> RRC		No	WG GERAN2														
696	50010	GERAN MS Conformance test for inter-system a		No	:RAN4;RAN3														
697	50011	Handover for the PS domain		No	:RAN4;RAN3														
698	50012	Stable RT handover report 25.936 including header re		No	:RAN4;RAN3														
699	50013	Update of stage 2		No	:RAN4;RAN3														
700	50014	Update of relevant stage 3 specs		No	:RAN4;RAN3														

ID	Unique_ID	Name	Release	Split	Resource No	2001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
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701	1685	PS-domain handover for real-time services		No	WG RAN3														
702	2554	RAB QoS Renegotiation at Relocation		No	WG RAN3														
703	1993	small Technical Enhancements and Improvem	Rel4	No	Generic														



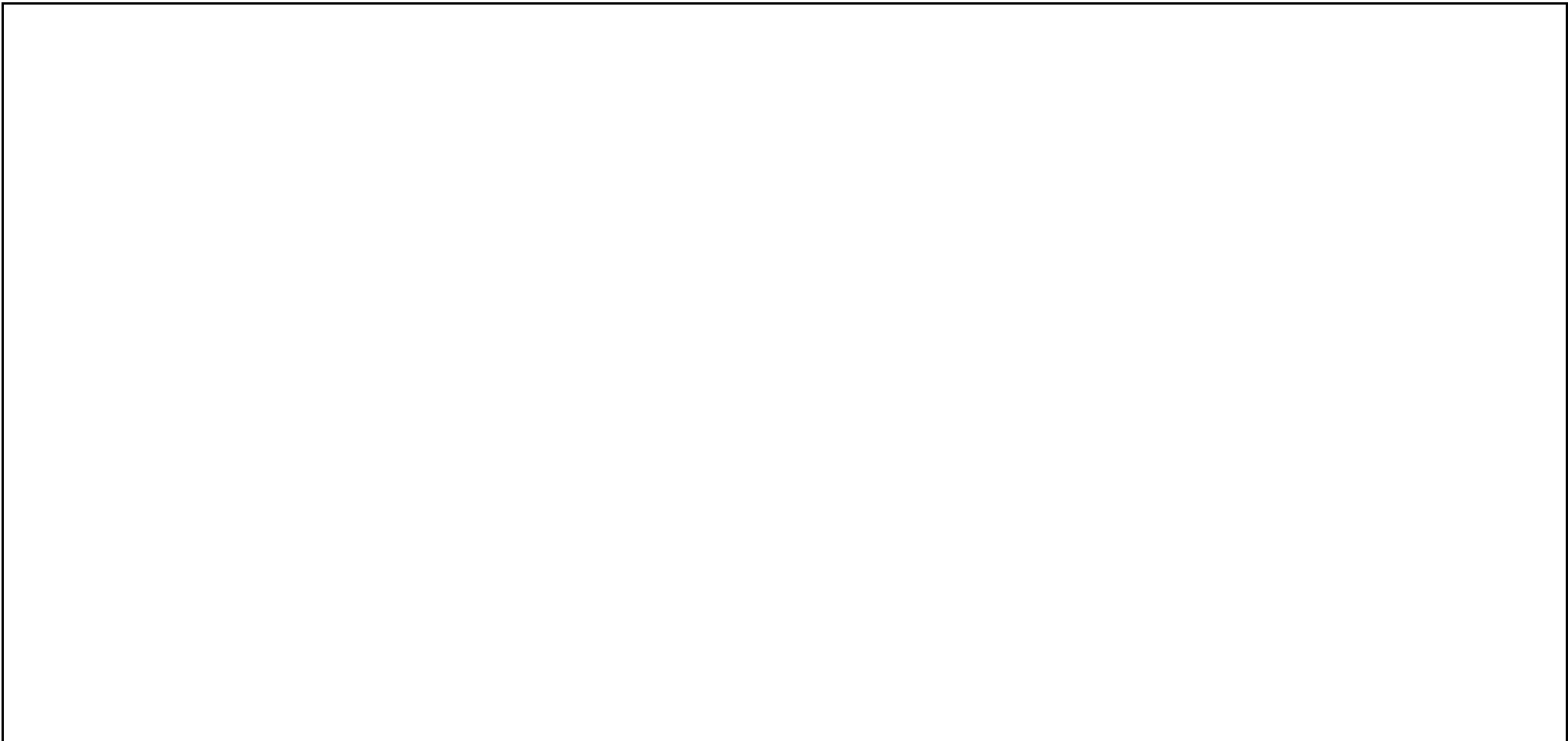
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	Critical Split		Milestone		Rolled Up Task Progress	
	Critical Progress		Summary Progress		Rolled Up Baseline	
	Task		Summary		Rolled Up Baseline Milestone	
	Split		Rolled Up Critical		Rolled Up Milestone	
	Task Progress		Rolled Up Critical Split		External Tasks	
	Baseline		Rolled Up Critical Progress		Project Summary	
	Baseline Split		Rolled Up Task			

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						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
6	2	Evolutions of the transport in the UTR/	NA	Yes	TSG RAN															
7	625	IP transport in the UTRAN	Rel5	No	WG RAN3															
10	2257	Evolution of transport in UTRAN and GE	Rel5	No	WG RAN3															
15	4	Evolutions of the transport in the CN	NA	Yes	WG CN4															
21	2455	FS on Usage of SUA	Rel5	No	WG CN4															
24	2476	High Speed Downlink Packet Access	Rel5	No	WG RAN2															
29	1216	Improvements of Radio Interface	NA	Yes	TSG RAN															
30	1470	Improvement of inter-frequency and in	Rel5	No	WG RAN1															
31	1471	Base station classification	Rel5	No	WG RAN4															
35	1217	Hybrid ARQ II/III	Rel5	No	WG RAN2															
43	2469	Enhancement on the DSCH hard split m	Rel5	No	WG RAN1															
44	2471	FS on Fast Cell Selection (FCS) for HS-I	Rel5	No	WG RAN1															
45	1506	FS on Radio link performance enhance	Rel5	No	WG RAN1															
47	1221	FS on USTS	Rel5	No	WG RAN1															
49	1997	FS on UE antenna efficiency test metho	Rel5	No	WG RAN4															
50	2494	FS on the re-introduction of the downli	Rel5	No	WG RAN4															
51	24001	FS on UTRA WideBand Distribution Sys	Rel5	No	WG RAN4															
52	2493	FS on mitigating the effect of CPICH int	Rel5	No	WG RAN4															
65	9	RAN improvements	NA	Yes	TSG RAN															
66	656	RRM optimization for lur and lub	Rel5	No	WG RAN3															
70	2488	RL Timing Adjustment	Rel5	No	WG RAN3															
71	2489	Separation of resource reservation and	Rel5	No	WG RAN3															
72	2490	Improvement of Radio Resource Manag	Rel5	No	WG RAN3															
73	2491	Re-arrangements of lub transport beare	Rel5	No	WG RAN3															
74	23003	SRNS Relocation Procedure Enhancem	Rel5	No	WG RAN3															
78	1680	Header compression removal/stripping	Rel5	No	TSG RAN															
79	1686	Unequal error protection in PS domain	Rel5	No	TSG RAN															
81	2472	Node B Synchronisation for 1.28 Mcps T	Rel5	No	WG RAN1															

ID	Unique_ID	Name	Release	Splittable	Resource No	001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
86	1273	Provisioning of IP-based multimedia s	NA	Yes	WG SA1														
87	1274	Call control and roaming to support IM	Rel5	No	WG SA2														
112	1298	Access Security for IMS	Rel5	No	WG SA3														
116	2574	Security Aspects of Requirement for Ne	Rel5	No	WG SA3														
119	2242	Charging Management for IMS	Rel5	No	WG SA5														
165	34001	Extended Transparent End-to-End PS	Rel5	No	WG SA4														
168	1652	Emergency call enhancements	NA	Yes	WG CN1														
169	1653	For IP & PS based calls	Rel5	No	WG CN1														
183	1517	Global Text Telephony	Rel5	No	WG SA2														
191	1367	VHE enhancements	NA	Yes	WG SA1														
193	2104	Extensions to OSA to support VHE	Rel5	No	WG SA2														
199	0	(copy) OSA Stage 3	Rel5	No	WG CN5														
200	1637	OSA enhancements	NA	Yes	WG SA1														
202	1424	Interactions OSA - e-commerce	Rel5	No	WG SA2														
205	1429	OSA APIs for MuMa CC	Rel5	No	WG SA2														
208	1419	OSA security	Rel5	No	WG SA3														
215	1433	Retrieval of Terminal capabilities	Rel5	No	WG SA2														
219	1786	LCS - OSA interfaces	Rel5	No	WG SA1														
223	2538	Interaction with Rel-5 features	Rel5	No	WG SA1														
227	2519	OSA Stage 3	Rel5	No	WG CN5														
230	1638	CAMEL phase 4	Rel5	No	WG SA1														
244	2464	MExE enhancements Rel-5	Rel5	No	WG T2														
247	1625	Wideband Telephony Service - AMR	Rel5	No	WG SA4														
290	1826	Terminal interfaces	NA	Yes	WG T2														
294	1829	Wide Area Data Synchronisation	NA	Yes	WG T2														
296	1831	vObjects and Other Constructs for Use in Data	Rel5	No	WG T2														
298	2573	Terminal local model enhancements	Rel5	No	WG T2														
299	1536	Location Services enhancements	NA	Yes	WG SA2														

ID	Unique_ID	Name	Release	Splittable	Resource Name	001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002			
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
309	1600	UE positioning	NA	No	TSG RAN															
312	2457	UE positioning enhancements - other methods	Rel5	No	WG RAN2															
313	2474	UE positioning enhancements for 1.28 Mcps TC	Rel5	No	WG RAN2															
314	2475	Open SMLC-SRNC Interface within the UTRAN	Rel5	No	WG RAN2															
315	2125	Open SMLC-SRNC Interface within the UTRAN	Rel5	No	WG RAN2															
317	1171	Event based and Periodic LCS	Rel5	No	WG SA1															
321	2436	Location Services for GERAN in A/Gb M	Rel5	No	TSG GERAN															
327	2442	Location Services for GERAN in Iu Mod	Rel5	No	TSG GERAN															
335	32001	Enhanced support for user privacy and	Rel5	No	WG SA2															
345	0	(copy) Charging and OAM&P	Rel5	No	WG SA5															
346	521	New security aspects of LCS (not identi	Rel5	No	WG SA3															
347	1560	UICC/(U)SIM enhancements and interv	NA	Yes	WG T3															
349	2517	UICC/USIM Transport Protocol	Rel5	No	WG T3															
350	1800	(U)SIM toolkit enhancements	NA	Yes	WG T3															
352	1566	Enhancements to (U)SIM toolkit secure	Rel5	No	WG T3															
353	1801	Protocol Standardisation of a SIM Tool	Rel5	No	WG T3															
357	1802	UICC API	NA	Yes	WG T3															
358	2031	C SIM API	Rel5	No	WG T3															
361	1571	Security enhancements	NA	No	WG SA3															
368	1583	MAP application layer security	Rel4	Yes	WG SA3															
371	1594	Visibility and Configurability of security	Rel5	No	WG SA3															
372	1576	Network domain security	Rel5	Yes	WG SA3															
382	1595	FIGS	Rel5	No	WG SA3															
394	1365	Support of Push Services	Rel5	No	WG SA1															
397	1142	Charging and OAM&P (Master)	NA	No	WG SA5															
399	35002	Rel5 Principles, high level Requirement	Rel5	No	WG SA5															
401	35003	Rel5 Performance Management	Rel5	No	WG SA5															
405	35004	Rel5 Charging Management	Rel5	No	WG SA5															

ID	Unique_ID	Name	Release	Splittable	Resource Name	001		Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002		
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
407	35001	Network Infrastructure Management	Rel5	No	WG SA5														
408	2062	Subscription Management	Rel5	No	WG SA5														
409	2243	Intra Domain Connection of RAN Node	Rel5	No	WG SA2														
415	2320	GERAN improvements 3 (new transpor	Rel5	No	TSG GERAN														
419	2330	GERAN support for IMS	Rel5	No	TSG GERAN														
435	2345	Alignment of 3G functional split and lu	Rel5	No	TSG GERAN														
495	2392	GERAN enhancements for streaming s	Rel5	No	TSG GERAN														
499	2396	GERAN enhancements for streaming s	Rel5	No	TSG GERAN														
506	2412	GERAN/UTRAN interface evolution 1 (Rel5	No	N;WG RAN3														
510	2416	GERAN/UTRAN interface evolution 2 (Rel5	No	N;WG RAN3														
514	2499	Support of Presence Capability	Rel5	No	WG SA1														
521	2507	Display of Service Provider name on U	Rel5	No	WG SA1														
527	2520	User Equipment Management	Rel5	No	WG SA5														
529	2527	Emergency calls without UICC/SIM in r	Rel5	No	WG SA2														
532	2556	End to End QoS for PS Domain includi	Rel5	No	WG SA2														
536	2569	Messaging enhancements Rel-5	Rel5	No	WG T2														
543	50001	GERAN Inter BSC NACC improvement	Rel5	No	TSG GERAN														
550	50033	Enhanced Power Control	Rel5	No	TSG GERAN														
554	50037	8PSK AMR HR	Rel5	No	TSG GERAN														
558	50041	Uplink TDOA feasibility study	Rel5	No	TSG GERAN														
560	13000	Service Change and UDI Fallback	Rel5	No	WG CN3														



Project: 3GPP_Work Plan Date: Wed 12/12/01	Critical		Baseline Milestone		Rolled Up Split	
	Critical Split		Milestone		Rolled Up Task Progress	
	Critical Progress		Summary Progress		Rolled Up Baseline	
	Task		Summary		Rolled Up Baseline Milestone	
	Split		Rolled Up Critical		Rolled Up Milestone	
	Task Progress		Rolled Up Critical Split		External Tasks	
	Baseline		Rolled Up Critical Progress		Project Summary	
	Baseline Split		Rolled Up Task			