				9				2, 200		Qtr			Qtr 4,			1, 2001	Qtr 2, 2		Qtr 3,			, 2001
ID	0	Name	Resource Na	Dec	Jan	Feb Mar	Арг	r May	Jun	Jul	Aι	ug Sep	Oct N	ov Dec	Jan	Feb Mar	Apr M	lay Jun	Jul A	Aug Sep	Oct	Nov Dec
1		3GPP fields: indicators, Name, Acronym, Ressource nam			0																	
2		"CTRL + a" to display all the 3GPP fields (move th			0																	
3																						
4		meetings						<b>\$</b>														
83					0																	
84																						
85	🧆 😤	Evolution of transport	TSG RAN				•	:												•		
86		Evolution of the transport in the UTRAN	TSG RAN				•															
87	<b>II</b> 🕵	Introduction of an option allowing an IP transpo	WG RAN3																			
88	📰 🍥 🎙	Radio access bearer support enhancement	WG RAN2																			
89	🎞 🍓	QoS optimisation for AAL2 connections over lu	WG RAN3																			
90	🎞 🍓	NEW (COPIED) PS-domain handover for real-tir	WG RAN3				-															
91	🎞 🚷	NEW IP Transport	TSG RAN				•															
92	ø	Evolution of the transport in the CN	WG CN4																			
93		User/signalling data transport on TCP/RTP/UDP	TSG CN					,														
94		User/signalling data transport on ATM/AAL2 be	TSG CN																			
95		Separation of call and bearer control	WG CN4																			
96		IP Transport of CN protocols (e.g., CAP, MAP)	WG CN4																			
97	🎫 🚷	Transport and control separation in the PS CN	WG SA2					I														
98	6	Evolution of bearers in the CN	TSG CN																	•		
99		Evolution of the bearers inside the PLMN	WG CN4												1							
100		Evolution of the bearers at the inter-working p	WG CN3												<b>*</b>				<u> </u>			
101	<b>e</b>	Radio Interface Improvement	TSG RAN		┝—		-															
102		NEW (COPIED) RRM Support over lub and lur: RRM	WG RAN3																			
103		NEW (COPIED) Node B synchronisation for TDD	WG RAN1																			
104		NEW (MOVED) Improvement of inter-frequency and	WG RAN1																			
105	0	NEW (MOVED) Base station classification	WG RAN4											<								
106	🎞 🚷	NEW FDD Base station classification	WG RAN4																			
107	III 🚷	NEW TDD Base station classification	WG RAN4																			
		· · · · · · · · · · · · · · · · · · ·		<u>.</u>																		
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Ē	~			9	Qtr 1	, 2000		tr 2, 200			3, 2000					Qtr 2, 20			Qtr 4, 200	
ID 108	0 🍓	Name Hybrid ARQ II/III	Resource Na WG RAN2		Jan	Feb Mar	r Ap	or May	Jun	Jul	Aug Sep	Oct	Nov Dec	Jan	Feb Mar	Apr May	Jun	Jul Aug Sep	Oct Nov	Dec
100		Improved usage of downlink resource in FDD for CC	WG RAN2																	
110	<b>.</b>		WG RAN2																	
	<b>.</b>	Terminal Power Saving features					T													
111		NEW (COPIED) PS-domain handover for real-time se	WG RAN3																	
112		NEW UTRA repeater specification	WG RAN4				<b>ا</b>													
113	<b>•••</b>	NEW Study Item: Radio link performance enhanceme	WG RAN1																	
114	🔜 🝓	Study Item: High Speed downlink packet access	WG RAN2					•												
115	<b>••</b>	Study Item: USTS	WG RAN1																	
116	📰 🚷	NEW Study Item: Feasibility Study for improved com	WG RAN2					•												
117	<b>e</b>	Low Chip Rate TDD option	WG RAN1		<b>&gt;</b>		+-		_			+	¢	•						
118	<b>e</b>	Low chip rate TDD physical layer	WG RAN1				+													
119	۰	Low chip rate TDD layer 2 and layer 3 protocol asp	WG RAN2				+													
120	۹.	Low chip rate TDD RF radio transmission/reception	WG RAN4				+					-								
121		DELETED (MOVED) Low chip rate TDD Smart anten	WG RAN1				-					-								
122	۰	Low chip rate TDD UE radio access capability	WG RAN2				_													
123	2	Low chip rate TDD UTRAN network lub/lur protocol	WG RAN3				_					<u> </u>								
124		RAN improvement	TSG RAN		<b>&gt;</b>		+					-		•						
125		NEW (MOVED) Low chip rate TDD Smart antenna	WG RAN1				_					-								
126		RRM optimization for lur and lub	WG RAN3				_					<u> </u>								
127	۰	Node B synchronisation for TDD	WG RAN1				_													
128	۰	DELETED (MOVED) Improvement of inter-frequency	WG RAN1				_													
129	<b></b>	DELETED (MOVED) Base station classification	WG RAN4				_					<u> </u>								
130	🖽 🍥 🎙	NEW (COPIED) Radio access bearer support enhan	WG RAN2									<u> </u>								
131	<b>.</b>	NEW (MOVED) PS-domain handover for real-time se	WG RAN3																	
132	<b>.</b>	NEW RAB Quality of Service Negotiation over lu	WG RAN3																	
133	۵.	NEW Position method enhancement	TSG RAN					<b></b>						•						
134		NEW UE positioning in UTRA FDD	WG RAN2																	
135		NEW UE positioning in UTRA TDD	WG RAN2																	
136		NEW (COPIED) UTRA repeater specification	WG RAN4																	
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						Pa	ige 2	2												

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ID	0	Name	Resource Na	Dec	Jan	Feb N	/lar A	Apr N	/lay Ju	n Ju	ul A	ug Sep	Oct	Nov Dec	Jan	Feb Mar	Apr	May Ju	ın Ju	I Aug Sep	Oct Nov	Dec
137	💷 🚷	NEW Radio interface testing	TSG RAN							+	+											
138	📰 🍓	NEW Requirement on equipment	TSG RAN							+	-											
139		Real-time QoS for packet services including VoIP	WG SA2					<b>\</b>		+-				<								
140	1	HOs: maintenance of real-time QoS support o	WG SA2					<b>\</b>		+-				<								
141		End-to-End multimedia QoS negotiation	WG SA2						<b>\$</b>	+-				•								
142		Stage 2	WG SA2							+	+											
143		Stage 3	WG CN1							+	+											
144		New or enhanced packet handling proce	WG SA2					<b>\</b>		+-				<								
145		on QoS architecture and GPRS improveme	WG SA2							┿												
146	🎞 🐁	DELETED (MOVED AND COPIED) PS-don	WG RAN3							+	+											
147		on GPRS GMM and SM aspects	WG CN1							-	+											
148		on GTP aspects	WG CN4							-	+											
149		changes to QoS renegotiation procedure	WG CN1							-	+											
150	1	End-to-end UMTS reservation and (re-)negotia	WG SA2					<b>\</b>		┿				<								
151	🎫 终 🎙	Study external QoS negotiation mechanisms	WG SA2							+												
152	📰 🍥	Define interactions between external QoS negc	WG SA2							+	-											
153		Possible new code points in QoS IE from exter	WG CN1							┿	-											
154		inclusion of UMTS QoS Architecture (23.107)	WG CN1							┿	-	•										
155	🎫 🍥	Consider issues related to charging for end-to-	WG SA5							+												
156		Mapping between UMTS QoS attributes and the	WG CN3							+												
157		GERAN QoS Aspect	TSG GERAN							+												
158		QoS for signalling bearer in and out of PL	WG SA2					<b>\$</b>		+												
159		Stage 2	WG SA2							+												
160		Impact on MM/CC	WG CN1							+												
161		Impact on MAP	WG CN4							+												
162		Non-real-time QoS for packet services	WG SA2		<b>-</b>		+			┿												
163	ø	Mapping of overall end to end QoS in each ne	WG SA2					<b>\</b>		+												
164		Impacts on QoS profile	WG CN4																			
165		[For Packet as per real time QoS, see "Real Tir	WG CN3																			
						F	Page	3														

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ID	0	Name	Resource Na		Jan	Feb Mar	Ap	or May	Jun	Jul	Aug	Sep	Oct Nov D	ec .	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct Nov Dec
166		Evolution of maximum SDU size	WG SA2									•						
167		Impacts on CN protocols (e.g., GTP, MAP)	WG CN4				•											
168		limpacts on interworking over GTP (e.g. PPP)	WG CN3				•											
169		[End-to-end (re-)negotiation of QoS parameters: Se	WG SA2															
170	ø	[HOs: maintenance of non real-time QoS while mov	WG SA2		0													
171		QoS for circuit switched services	WG SA2						_					-				
172		HOs: support of inter-MSC change and SRNS r	WG SA2						_				I	-				
173		GERAN QoS Aspects	TSG GERAN				•											
174	🌮 🔔	Provisioning of IP-based multimedia services	WG SA1		<b>&gt;</b>		-		_					+		<b></b>		
175		Call control and roaming to support IP-based	WG SA2			<b>~</b>	-		_									
176	<b>II</b> 🔌	Definition of service requirements.	WG SA1						_									
177	🎞 🌭 🎙	Architecture and Stage 2	WG SA2				•		_									
178	🎫 终	Study on impacts on HSS	WG CN4															
179	🎫 终	SIP over Gm reference point (CSCF – UE)	WG CN1											•				
180		Check SIP support of SS defined in 22.976, Gm	WG CN1											•				
181	Ħ	SIP SS and relationship to Mg, Mw and Cx	WG CN4				•							•				
182	III 🚷	Transparent End-to-End Packet switched mobil	WG SA4						4					•				
183	ø	Multimedia Capabilities	WG CN1						_									
184	<b>II</b> 🔌	N1: Terminal capabilities	WG CN1				•							•				
185	🎫 终	T2: Terminal capabilities	WG T2											•				
186	📰 🍥	N1: Network capabilities	WG CN1											•				
187	📰 🍥	N4: Network capabilities	WG CN4											•				
188		CSCF – HSS (Cx) applications and service:	WG SA2						_									
189	Ħ	Stage 2 flows	WG SA2				•					<b>-</b> 1						
190	Ħ	Impact on Camel Stage 3	WG CN2									*		•				
191		Impact on MAP	WG CN4											•				
192		Addressing, Identities	WG SA2						_									
193		Architectural issues	WG SA2	1			•		_									
194		Impact on HSS	WG CN4	1			•		_									
						Pag	ge 4	1										

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ID	0	Name	Resource Na	Dec	Jan	Feb Mar	Ap	or May	Jun	Jul	Au	ig Sep	Oct I	Nov Dec	Jan	Feb M	lar	Apr N	/lay Jur	n Jul	Aug Sep	Oct Nov	v Dec
195		Interworking	WG CN3				•					-											
196	<b></b>	Interworking with other multimedia proto	WG CN3									_											
197		Requirements	WG SA1				•																
198		Impact on MM/CC/SM	WG CN1				•																
199		Interworking with external networks	WG CN3				•																
200	🎫 🌭 🎙	Access Security for IP-multimedia services	WG SA3				•										+						
201	🎫 🍥	Lawful interception	WG SA3				+																
202	🌭 🐍 🛛	RAN improvements and evolution of the bearers on	TSG RAN		0																		
203	1	Non-real Time QoS for packet services	WG SA2		0																		
204	1	Real Time QoS for packet services including VoIP	WG SA2		0																		
205	<b></b>	Billing, charging and management aspects for IP-bas	WG SA5		•																		
206	<b></b>	Codec aspects for the provisioning of IP-based mult	WG SA4		0																		
207		Roaming support within and between IP Mult	WG CN4					•															
208	🎫 🍥 🎙	Roaming requirements	WG SA1																				
209	🎫 🍥 🎙	Stage 2	WG SA2					-															
210	🎫 🍥	Stage 2 review	WG CN4						2		1												
211		Internetwork roaming aspects	WG CN3																				
212	🎫 🍥	Support of VHE/OSA by R00 network entities and p	WG CN5																				
213	🎫 🍥	CAMEL control of VoIP	WG CN5																				
214		Emergency call enhancements	WG CN1					-		<u> </u>				<	•								
215	۰	IP & PS based emergency call enhancements	WG CN1					-		<u> </u>				<	•								
216		Service Requirements for IP-based emergency	WG SA1																				
217		SIP emergency calls and packet emergency ca	WG CN1																				
218		Stage 2 for emergency calls and packet emerg	WG SA2																				
219		Distinction of emergency call types to different	WG SA1									-											
220	🎫 🍥	Stage 3 for emergency calls and packet emerg	WG CN1																				
221		CS based emergency call enhancements	WG CN1					•						<	•								
222		Distinction of emergency call types to different	WG SA1								-	-											
223		Emergency call recalling capability enhanceme	WG CN1																				
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						Pa	ge 5	5															

227 228 229 230 231 1		Name         Enable bearer independent Circuit-switched netw         Enable bearer-independent call control         Architecture and Stage 2 description on 23.82 <sup>-</sup> Standardisation of protocols (user plane) over         Standardisation of protocols over reference pc         Bearer control between MSC server and	Resource Na WG SA2 WG SA2 WG SA2 WG CN3 WG CN4	Dec	Jan	Feb Mar	Apr	r May	Jun	Jul	Aug	Sep	Oct No		Jan	Feb Ma	r Apr	May Jur	n Jul Aug	Sep	Oct No	ov Dec
225 226 227 228 229 230 231	3 🧼 3 3 3	Enable bearer-independent call control Architecture and Stage 2 description on 23.82' Standardisation of protocols (user plane) over Standardisation of protocols over reference pc	WG SA2 WG SA2 WG CN3						-			-		$\rightarrow$								
226 1 227 1 228 1 229 2 230 1 231 1	3	Architecture and Stage 2 description on 23.82 <sup>°</sup> Standardisation of protocols (user plane) over Standardisation of protocols over reference pc	WG SA2 WG CN3		<b>-</b>		-															
227 228 229 230 231 1	3	Standardisation of protocols (user plane) over Standardisation of protocols over reference pc	WG CN3									+										
228 1 229 2 230 1 231 1	3	Standardisation of protocols over reference pc							_	_		•										
229 230 II 231 II	3	· · ·	WG CN4						_	_		_										
230 🔳 231 🔳		Bearer control between MSC server and								_		_										
231 🔳			WG CN4		<b>\</b>				-	_		$\rightarrow$										
		Stage 2	WG CN4						_			_										
000 📼		Stage 3	WG CN3									_										
232 🔳		Bearer control (control plane, e.g., Q.AAL2) be	WG CN3							_												
233 🔳	I 🌾	Lawful interception	WG SA3							_		_										
234 🔳		Bearer Independence and codec control issues	WG SA4							_												
235		Circuit-switched multimedia services	WG SA2					•	$\rightarrow$			$\rightarrow$		$\rightarrow$								
236 🤞	2	Circuit-switched multimedia swap and fallbac	WG CN1					•	$\rightarrow$			$\rightarrow$										
237 🔳		Call control and signalling aspects	WG CN1							_												
238 🔳		Transport aspects	WG CN3									_										
239 🔳		inband signalling	WG CN3							_												
240 🔳		Review service/stage 1	WG SA1							_												
241 🔳		Review architecture/stage 2	WG SA2							_												
242 🗸	1	Facsimile	WG SA1			<b>~</b>	_															
243 🗸	1	Real Time Fax	WG SA2			<b>\$</b>	-		-													
244 🗸	/	Terminal capabilities, AT commands	WG T2						_													
245 🗸	/	Signalling aspects (e.g. ICM)	WG CN1						_													
246 🗸	/	Service provision	WG CN3						_													
247 🗸	/	Review whether service/stage 1 aspects need	WG SA1				-		_													
248 🗸	/	Review whether architecture/stage 2 aspects I	WG SA2				-		_													
249 🤞	) <b>()</b>	Global Text telephony	WG SA2							>		$\rightarrow$										
250 🔳		Stage 1	WG SA1						Ļ	<b>_</b>												
251 🔳		Stage 2	WG SA2	1						*		ף ף										
252		Activation and transport	WG SA2									*										
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						Par	ge 6															

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ID	0	Name	Resource Na				Apr May Jun				Oct Nov Dec		Apr	May Jun	Jul Aug Sep	Oct Nov Dec
253		SIP and H.324 Activation and transport	WG SA2													
254		Data Channel Activation and transport	WG SA2													
255		Voice Channel Activation and transport	WG SA4													
256		Selection of transport method	WG SA2													
257	💷 🌭	Interworking	WG CN3													
258	💷 🌭	Terminal Aspects	WG T2													
259		USIM Aspects	WG T3													
260	۰	Bearer Modification without pre-notification	WG SA1				<b>~</b>	+								
261		Bearer Modification without pre-notification	WG CN3				<b>.</b>	-								
262		In call modify procedure	WG CN1					<u> </u>								
263		Interworking function, TAF	WG CN3					<u> </u>								
264		Out of band Transcoder Control	WG CN4					<u> </u>								
265	<b></b>	AT commands	WG T2													
266	<b></b>	Bearer Modification because of radio conditions	WG SA2						•							
267		Push Services (Feasibility Study)	WG SA2				<b>~</b>	$\vdash$								
268	🎞 🚷	Network requested PDP context activation with Use	WG SA2													
269	۰	VHE	WG SA1				•	<b>\</b>								
270		Evolution of VHE concepts	WG SA2				•	<b>\</b>								
271		Introduction of VHE within the IP Multi Me	WG SA2				•	<b>\</b>								
272		Stage 1	WG SA1					┝	1							
273		Stage 2	WG SA2					1		<b>-</b> 1						
274		Terminal impacts	WG T2							*						
275		Evolution of VHE within the Packet Switch	WG SA2				•	<b>\</b>								
276	<b></b>	Stage 1	WG SA1					┝	1							
277		Stage 2	WG SA2					1		<b>-</b> 1						
278		Terminal impacts	WG T2	1						*						
279		Service Continuity	WG SA2	1			•	<b>\</b>								
280		Definition and requirements on VHE within a sin	WG SA1	1				┝	ו							
281		VHE architecture within a single domain	WG SA2	1				1	<b>*</b>							
					Pa	age	97									

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ID	0	Name	Resource Na		Jan Feb Mar	r Ap	pr May J	un	Jul	Aug Sep	Oct	Nov Dec	Jan	Feb Ma	r Apr I	May Jun	Jul A	ug Sep	Oct N	lov D
282		VHE interworking between domains	WG SA2						ž											
283		Personal Service Environment (PSE), user pr	WG SA2																	
284		PSE architecture (e.g. HSS) and interfaces	WG SA2						•											
285		User Profiles definition	WG CN4						•											
286		Interaction between VHE Toolkits	WG SA2						_											
287		Stage 1	WG SA1					+	-											
288		Stage 2	WG SA2						1	,										
289		VHE management aspects	WG SA2						_		<u> </u>									
290		Stage 1	WG SA1					-	-											
291		Stage 2	WG SA2						1	, 										
292	Ħ	OAM aspects	WG SA5																	
293		VHE security	WG SA3						_											
294	Ħ	Requirements	WG SA1					-	<b>-</b> 1											
295	<b>1</b>	Architecture definition for the different VHE toc	WG SA2						1	, 										
296		Review of architecture	WG SA3							*										
297	Ħ	(possibly) changes required from supporting pla	WG SA3							•										
298	•	OSA	WG SA1						_											
299		Evolution of OSA concepts	WG SA1						_											
300		Introduction of OSA within the IP Multi Me	WG SA2						_											
301		Stage 1	WG SA1					-	-											
302		Stage 2	WG SA2						1	,										
303		Evolution of OSA within the Packet Switcl	WG SA2						_											
304		Stage 1	WG SA1					-	-											
305		Stage 2	WG SA2						1	,										
306		Integration of OSA within IM domain	WG SA2						_											
307	<b></b>	Requirements	WG SA2					F	_											
308		Interaction between SIP and OSA	WG SA2						_											
309	Ħ	Stage 2	WG SA2	1				Ļ	_	<b></b> 1										
310		Stage 3 -MM/CC aspects	WG CN1	1																

				9	Qtr 1, 2000		, 2000			Qtr 4, 200			2001	Qtr 2		Qtr 3, 200		tr 4, 2001
ID 311	<b>0</b>	Name Stage 3 -other aspects	Resource Na WG CN5	_	Jan Feb Mar	Apr	May Jun	Jul	Aug Sep	Oct Nov	Dec	Jan F	eb Mar	Apr	May Jun	Jul Aug	Sep C	Oct Nov D
	±																	
312		Interaction between HSS and gsmSCF feature	WG SA2				•											
313		Stage 2	WG SA2				I											
314		Stage 3 -MM/CC aspects	WG CN1								-							
315		Stage 3 - MAP aspects	WG CN4								-							
316		Stage 3 -other aspects	WG CN5						<u> </u>		-							
317		Interaction between Multi Media network res	WG SA2				•	<u> </u>										
318		Stage 2	WG SA2				I		<b></b> _									
319	Ħ	Stage 3	WG CN5						💺		-							
320	<b>M</b>	User Profile Management, User Profile Access	WG CN5						📥		-							
321	<b>9</b>	OSA security	WG SA3					<u> </u>										
322		Technical requirements	WG SA2				1		<b></b>									
323	III 🍥	Stage 3	WG SA3						🗲		-							
324		security related SCF(s) definition	WG CN5						🗲		-							
325		(possibly) changes required from supporting pla	WG SA3						🛓		-							
326	<b></b>	Network Service Capability Features (N-SCFs)	WG SA2					<u> </u>										
327		User requirements for the OSA N-SCFs	WG SA1				1											
328		Specify the selection of SCFs within the netwo	WG SA2						<u> </u>									
329		Technical requirements for the OSA N-SCFs	WG SA2						<b></b>									
330		OSA APIs	WG CN5						🛓		-							
331		internal OSA APIs	WG SA2					<u> </u>										
332		User requirements	WG SA1				1	l										
333	<b>II</b>	Technical requirements	WG SA2						<b></b> _									
334		Stage 3	WG CN5						📥		-							
335		Enhancement of the Framework Service Capa	WG SA2					<u> </u>										
336		User requirements	WG SA1	1			I	L_,										
337		Technical requirements	WG SA2	1					<b></b> _									
338		Stage 3	WG CN5	1					🛓		-							
339		Harmonisation/co-ordination with non UMTS related	WG CN5						_		-							
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ID 340	<u>0</u> %	Name CAMEL phase 4	Resource Na WG SA1	Dec	Jan Feb Mar	r Ap	or May Jun	n Jul	IA	ug Sep	Oct	NOV Dec	Jan	⊦eb Mar	Apr May 、	Jun	Jul Aug Sep	Oct Nov	De
340	100	Service requirements	WG SA1																
					0														
342		CAMEL applicability to media streams (e.g. VoIP)	WG CN2		0														
343		CSE Initiated call setup	WG CN2		0														
344		User Interactions during a call	WG CN2		0														
345		Interactions with Optimal Routing	WG CN2		0														
346		CSE control of follow-on calls	WG CN2		0														
347		CSE control over MT SMS	WG CN2		0														
348	۵.	MExE	WG T2		<b>&gt;</b>	+													
349	ø	3rd MExE classmark	WG T2		0														
350	0	MExE Security	WG SA3		•	+													
351		Terminal aspects	WG T2																
352		Stage 3	WG SA3					15/0	96										
353	ø	Support of the Terminal parts of the VHE /User Profi	WG T2		0														
354		AT command support (Feasibility Study)	WG T2		0														
355		Secure download mechanism and capabilities to su	WG T2		0														
356		Support of MP3/MPEG4 content (Feasibility Study)	WG T2		0														
357		Support of SAT/OSA/CAMEL interaction to provide	WG T2		0														
358		Wideband Telephony Service - AMR	WG SA4			-													
359		Specification	WG SA4			-									<				
360	<b>v</b>	Design Constraints	WG SA4																
361	<b>v</b>	General Description	WG SA4			4													
362	<b>V</b> 🖗	Feasibility Study	WG SA4																
363		Codec issues	WG SA4		•	-													
364	<b>√</b>	Codec qualification	WG SA4																
365		Codec selection tests	WG SA4				<u> </u>				<b></b>								
366		Codec selection	WG SA4								<b>+</b>								
367		Other codec issues	WG SA4									<b></b>							
368		Conformance tests (CRs to 34 series)	WG T1									<u> </u>							
	فتخت			l															—

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ID 369	0	Name Terminal Acoustic Characteristics	Resource Na WG SA4	Dec	Jan	Feb Mar	Apr	May	Jun	Jul	Aug	Sep	Oct No	v Dec	Jan I	eb Mar	Apr	vlay Jun	Jul	Aug Se	p Oc	t Nov D	)ec
						$\rightarrow$																	
370		Definition	WG SA4																				
371		Review of definition	WG T1																				
372		Test specification	WG SA4																				
373		Review of Test specification	WG T1																				
374		Implementation	WG SA4	•	<b>}</b>				_			_											
375	III 🚷	In UTRAN	TSG RAN																				
376		In GERAN	TSG GERAN																				
377		In CN	TSG CN		<b>\</b>				_			_											
378	💷 终	Impact on N1	TSG CN																				
379		Transcoder-Free Operation (TrFO)	WG SA4		<b>\</b>		-							<									
380	<b>6</b>	Specification	TSG CN																				
381		Impact on MM/CC/SM	WG CN1		0																		
382		Prevention of user fraud	WG SA3		0																		
383		Specification of Codecs list	WG SA4		0																		
384		Harmonisation between TFO and TrFO	WG CN4		0																		
385	III 🚷	NEW TrFO in UTRAN	TSG RAN																				
386		OoBTC solution	TSG CN																				
387		Impact on architecture	WG SA2		0																		
388	۹.	Codec Negotiation between UE and MSC	WG CN1		0																		
389	1	Codec Negotiation inter MSC	WG CN4		0																		
390	08	Bearer establishment inter MSC	WG CN4		•																		
391		Bearer establishment between UE and RAN, T	WG RAN2		•																		
392	6	Bearer establishment between MSC and RNC a	WG RAN3		0																		
393	ø	Notification of the Codec mode to RAN, lu UP c	WG RAN3		•																		
394		Support of Transcoder in CN	TSG CN																				
395	<u> </u>	Speech Transcoder: Location and Control at the UN	WG SA2																				
396	0	Transcoder at Edge	TSG CN		0																		
397	-	Tandem Free aspects for 3G and between 2G and	TSG CN			<b>~</b>								-									
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0     Name     Resource & Des Jen Feb Mer Apr Mey Jun Ju Aug Set     Ort Nov Des Jen Feb Mer Apr Mey Jun Ju Aug Set       389     Image: Set					9	Qtr 1, 2000		2, 2000			, 2000		Qtr 4, 200			, 2001		, 2001		3, 2001	Qtr 4, 20	
399       Implementation       WG SA4         400       Implementation       TSG CK         411       in CN       TSG GERA4         423       in GERAN       TSG GERA4         424       in GERAN       TSG GERA4         425       Impact on UTRAN       TSG GERA4         426       Impact on UTRAN       TSG GERA4         426       Impact on UTRAN       TSG GERA4         427       Service Requirements       WG SA1         428       Definition of requirements       WG SA1         429       Review of definition       WG T2         411       Definition of requirements       WG SA1         412       Review of definition       WG T2         413       Service Requirements       WG SA2         414       Definition of reference Achitecture modi       WG T2         413       Service Requirements       WG SA1         414       Definition of reference Achitecture modi       WG T2         415       Advanced Cell Endocast       WG SA1         416       Terninal aspects       WG SA1         417       Geo Advanced Cell Endocast       WG SA1         418       Terninal aspects       WG SA1 <td< th=""><th></th><th>0</th><th></th><th></th><th>_</th><th>Jan Feb Mar</th><th>r Apı</th><th>r May Ju</th><th>un .</th><th>Jul</th><th>Aug Se</th><th>рC</th><th>Oct Nov</th><th>Dec</th><th>Jan</th><th>Feb Mar</th><th>Apr</th><th>May Ju</th><th>n Jul</th><th>Aug Sep</th><th>Oct Nov</th><th>/ Dec</th></td<>		0			_	Jan Feb Mar	r Apı	r May Ju	un .	Jul	Aug Se	рC	Oct Nov	Dec	Jan	Feb Mar	Apr	May Ju	n Jul	Aug Sep	Oct Nov	/ Dec
400       Implementation       TSG CM         401       in CN       TSG CM         402       in UTRAN       TSG CAN         403       in GERAN       TSG CAN         404       in GERAN       TSG CAN         405       in GERAN       TSG CAN         406       in GERAN       TSG CAN         407       Impact on UTRAN       TSG RAN         408       in General Sation       WG SAI         409       Review of definition of requirements       WG SAI         410       Definition of requirements       WG SAI         411       Definition of reference Achitecture model       WG SAI         412       Review of definition of Stage 1"       WG TZ         413       Virulimedia Messaging       WG TZ         414       Definition of IMSE primitives in Stage 2       WG TZ         415       Advanced Cell Broadcast       WG SAI         416       Virulimedia Messaging       WG SAI         417       Trulimal aspecis       WG SAI         418       Terminal aspecis       WG SAI         420       Review of Requirements       WG SAI         421       Afroemands       WG SAI         422       Ed						→ → → → → → → → → → → → → → → → → → →	+		+			T	ę	•								
401     in     in CN     TSG CAN       402     in     in UTRAN     TSG RAN       403     in     in GERAN     TSG GERAN       404     impact on UTRAN     TSG RAN       405     impact on UTRAN     TSG RAN       406     impact on UTRAN     TSG RAN       407     impact on UTRAN     TSG RAN       408     impact on UTRAN     TSG RAN       409     impact on UTRAN     TSG RAN       400     Service Requirements     WG SAI       401     Definition of reference Achitecture model     WG SAI       402     Review of definition     WG T2I       411     Definition of Inference Achitecture n WG T2I       412     Review of definition or ference Achitecture n WG T2I       413     Off-Fulfill Requirements of Stage 1       414     Definition of MMS primitives in Stage 2     WG T2I       415     Advanced Cell Broadcast     WG SAI       416     Off-Fulfill Requirements     WG SAI       417     Service Requirements     WG SAI       418     Image 2     WG T2I       419     Publicast     WG SAI       410     Fulfill Requirements     WG SAI       411     Service Requirements     WG SAI       412     Atroonmand	399		Specification	WG SA4			+															
442     Image: Minutanian Miscana Mi	400		Implementation	TSG CN				-	-			-	ę	•								
403       Im o GERAN       TSG GERAN         404       Impact on UTRAN       TSG GERAN         405       Impact on UTRAN       TSG RAN         406       Impact on UTRAN       TSG RAN         407       Sorrice Requirements       WG SA1         408       Impact on UTRAN       WG SA1         409       Impact on UTRAN       WG SA1         400       Impact on UTRAN       WG SA1         401       Impact on UTRAN       WG SA1         402       Impact on UTRAN       WG SA1         403       Impact on UTRAN       WG SA1         410       Impact on Utransition of reference Achitecture model       WG SA2         411       Impact on Utransition of reference Achitecture model       WG SA2         412       Review of definition of reference Achitecture model       WG SA2         413       Impact on Utransition of MMS primitives in Stage 2       WG SA2         414       Impact on Utransition aspects       WG SA2         415       Advanced Cell Broadcast       WG SA2         416       Terminal aspects       WG SA2         417       Impact on Utransition       WG SA2         418       Impact on Utransiticture model       WG SA2 <t< th=""><th>401</th><td>—</td><td>in CN</td><td>TSG CN</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>•  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	401	—	in CN	TSG CN						-				•								
404       Impact on UTRAN       TSG RAN         405       Impact on UTRAN       TSG RAN         406       Impact on UTRAN       TSG RAN         407       Service Requirements       WG SA1         408       Review of definition       WG SA1         409       Review of definition       WG TZ         410       Technical Realisation       WG TZ         411       Definition of reference Achitecture model       WG SA2         412       Review of definition of reference Achitecture model       WG TZ         413       Vectore Requirements       WG SA2         414       Definition of reference Achitecture model       WG SA2         415       Vectore Requirements       WG SA2         416       Service Requirements       WG SA2         417       Service Requirements       WG SA2         418       CEBC-RNC Protocol       WG RAN3         419       IPMulticast       WG SA1         420       Service Requirements       WG SA2         411       MA commands       WG TZ         412       MA trommands       WG TZ         413       MMA tormmands       WG TZ         414       MMA tormmands       WG TZ      <	402	III 🍓	in UTRAN	TSG RAN					+	-		+		•								
405       Impact on UTRAN       TSG RAN         406       Multimedia Messaging       WG T2         407       Service Requirements       WG SA1         408       Review of definition       WG SA1         409       Review of definition       WG T2         410       Definition of requirements       WG SA1         411       Definition of reference Achitecture model       WG SA2         412       Review of definition of reference Achitecture model       WG SA2         413       Priufill Requirements of Stage 1'       WG SA1         414       Definition of Inference Achitecture model       WG SA2         414       CBC-RNC Protocol       WG SA1         415       Advanced Cell Broadcast       WG SA1         416       CBC-RNC Protocol       WG RAN3         417       PMulticast       WG SA1         418       PMulticast       WG SA1         419       PMulticast       WG SA1         410       PMulticast       WG SA1         411       MG Arcommands       WG SA1         412       Aft commands       WG SA1         421       Aft commands       WG T2         422       Afteratives to AT commands       WG T2     <	403		in GERAN	TSG GERAN					+	-		-		•								
400     Image: Multimedia Messaging     WG Y2       407     Service Requirements     WG SA1       408     Image: Mexiew of definition of requirements     WG SA1       409     Image: Mexiew of definition of reference Achitecture model     WG Y2       410     Image: Mexiew of definition of reference Achitecture model     WG SA2       411     Image: Mexiew of definition of reference Achitecture model     WG Y2       412     Image: Mexiew of definition of reference Achitecture model     WG Y2       413     Image: Mexiew of definition of reference Achitecture model     WG Y2       414     Image: Mexiew of definition of reference Achitecture model     WG Y2       413     Image: Mexiew of definition of reference Achitecture model     WG Y2       414     Image: Mexiew of definition of reference Achitecture model     WG Y2       413     Image: Mexiew of definition of reference Achitecture model     WG Y2       414     Image: Mexiew of definition of reference Achitecture model     WG Y2       415     Image: Mexiew of definition of Stage 11     WG Y2       416     Image: Mexiew of definition of MS primitives in Stage 2     WG Y2       417     Image: Mexiew of definition of MS Primitives in Stage 3     WG Y2       418     Image: Mexiew of definition of MS Y2     Image: Mexiew of MS Y2       419     Image: Mexiew of MA Y2	404	🄌 🚷	Transmission planning in 3G networks	TSG RAN		•	+		+					•								
<ul> <li>407</li> <li>408</li> <li>408</li> <li>409</li> <li>40</li> <li>400</li> <li>40</li> <li>400</li> <l< th=""><th>405</th><td>III 🚷</td><td>Impact on UTRAN</td><td>TSG RAN</td><td></td><td></td><td>+</td><td></td><td>+</td><td></td><td></td><td></td><td></td><td>-  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l<></ul>	405	III 🚷	Impact on UTRAN	TSG RAN			+		+					-								
408Image: CommandsImage: CommandsImage: Commands409Image: CommandsImage: CommandsImage: Commands400Image: CommandsImage: CommandsImage: Commands401Image: CommandsImage: CommandsImage: Commands401Image: CommandsImage: CommandsImage: Commands401Image: CommandsImage: CommandsImage: Commands402Image: CommandsImage: CommandsImage: Commands403Image: CommandsImage: CommandsImage: Commands404Image: CommandsImage: CommandsImage: Commands405Image: CommandsImage: CommandsImage: Commands404Image: CommandsImage: CommandsImage: Commands405Image: CommandsImage: CommandsImage: Commands </th <th>406</th> <td>۲</td> <td>Multimedia Messaging</td> <td>WG T2</td> <td></td> <td><b>~</b></td> <td>+</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	406	۲	Multimedia Messaging	WG T2		<b>~</b>	+		-	-		-			•							
400       Image: Review of definition       WG T2         410       Image: Technical Realisation       WG T2         411       Image: Definition of reference Achitecture model       WG SA2         412       Image: Review of definition of reference Achitecture n       WG T2         413       Image: Point Commands of Stage 1"       WG T2         414       Image: Definition of MMS primitives in Stage 2       WG T2         414       Image: Definition of MMS primitives in Stage 2       WG T2         414       Image: Definition of MMS primitives in Stage 2       WG T2         415       Advanced Cell Broadcast       WG SA2         416       Image: Definition of MMS primitives in Stage 2       WG T2         417       Image: Definition appects       WG SA1         418       Image: Definition appects       WG SA1         419       Image: Definition appects       WG SA1         410       Service Requirements       WG SA1         412       At commands       WG T2         412       Edge AT commands       WG T2         412       MMS AT commands       WG T2         412       Atternatives to AT commands       WG T2         413       Atternatives to AT commands       WG T2 <th>407</th> <td></td> <td>Service Requirements</td> <td>WG SA1</td> <td></td> <td>•</td> <td>+</td> <td></td>	407		Service Requirements	WG SA1		•	+															
Image: section of the section of th	408		Definition of requirements	WG SA1			+															
411Image: Constraint of the former of the forme	409		Review of definition	WG T2			+															
412Mexiew of definition of reference Achitecture nWG T2413Image: Second Stage 1Image: Second Stage 1Image: Second Stage 1414Image: Definition of MMS primitives in Stage 2Image: Second Stage 1415Image: Advanced Cell BroadcastImage: Second Stage 1416Image: Second Stage 1Image: Second Stage 1417Image: Second Stage 1Image: Second Stage 1418Image: Second Stage 1Image: Second Stage 1419Image: Second Stage 1Image: Second Stage 1410Image: Second Stage 1Image: Second Stage 1411Image: Second Stage 1Image: Second Stage 1412Image: Second Stage 1Image: Second Stage 1413Image: Second Stage 1Image: Second Stage 1414Image: Second Stage 1Image: Second Stage 1415Image: Second Stage 1Image: Second Stage 1416Image: Second Stage 1Image: Second Stage 1417Image: Second Stage 1Image: Second Stage 1418Image: Second Stage 1Image: Second Stage 1419Image: Second Stage 1Image: Second Stage 1411Image: Second Stage 1Image: Second Stage 1412Image: Second Stage 1Image: Second Stage 1413Image: Second Stage 1Image: Second Stage 1414Image: Second Stage 1Image: Second Stage 1415Image: Second Stage 1Image: Second Stage 1416Image: Second Stage 1Image: Second Stage 1417	410		Technical Realisation	WG T2		<b>~</b>	+		+	-		+		-								
413M"Fulfill Requirements of Stage 1"WG T2414Definition of MMS primitives in Stage 2WG T2415Advanced Cell BroadcastWG SA2416MService RequirementsWG SA1417MCBC-RNC ProtocolWG RAN3418Terminal aspectsWG SA1419Image 1PutticastWG SA1420Service RequirementsWG SA1421GB exrice RequirementsWG SA1422Edge AT commandsWG T2423MMS AT commandsWG T2424Other AT commands (TBD)WG T2425Alternatives to AT commands (TBD)WG T2	411		Definition of reference Achitecture model	WG SA2						•		_										
414Definition of MMS primitives in Stage 2WG 72415Advanced Cell BroadcastWG SA2416IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	412		Review of definition of reference Achitecture n	WG T2		0																
415Advanced Cell BroadcastWG SA2416Image: Service RequirementsWG SA1417Image: Service RequirementsWG SA1418Terminal aspectsWG T2419Image: Partice RequirementsWG SA1420Service RequirementsWG SA1421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424Other AT commands (TBD)WG T2425Alternatives to AT commands (TBD)WG T2	413	ø	"Fulfill Requirements of Stage 1"	WG T2		0																
416Image: Service RequirementsWG SA1417Image: Service RequirementsWG RAN3418Image: Terminal aspectsWG T2419IP MulticastWG SA1420Service RequirementsWG SA1421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424other AT commands (TBD)WG T2425Alternatives to AT commands (TBD)WG T2	414		Definition of MMS primitives in Stage 2	WG T2		0																
417Image: CBC-RNC ProtocolWG RAN3418Terminal aspectsWG RAN3419IP MulticastWG SA1420Service RequirementsWG SA1421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424Other AT commands (TBD)WG T2425Alternatives to AT commands (TBD)WG T2	415		Advanced Cell Broadcast	WG SA2			<b>-</b>		+	-												
418Terminal aspectsWG T2419IP MulticastWG SA1420Service RequirementsWG SA1421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424Other AT commands (TBD)WG T2425Alternatives to AT commands (TBD)WG T2	416	🎫 🍥	Service Requirements	WG SA1					-													
Image: Constraint of the constra	417	🎫 🍥	CBC-RNC Protocol	WG RAN3					+	-												
420Service RequirementsWG SA1421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424Other AT commandsWG T2425Alternatives to AT commands (TBD)WG T2	418		Terminal aspects	WG T2					÷	_												
421AT commandsWG T2422Edge AT commandsWG T2423MMS AT commandsWG T2424other AT commandsWG T2425Alternatives to AT commands (TBD)WG T2	419		IP Multicast	WG SA1																		
422Edge AT commandsWG T2423MMS AT commandsWG T2424other AT commandsWG T2425Alternatives to AT commands (TBD)WG T2	420		Service Requirements	WG SA1		0																
423     MMS AT commands     WG T2       424     other AT commands     WG T2       425     Alternatives to AT commands (TBD)     WG T2	421		AT commands	WG T2																		
424     Other AT commands     WG T2       425     Alternatives to AT commands (TBD)     WG T2	422		Edge AT commands	WG T2		0																
425 Alternatives to AT commands (TBD) WG T2	423		MMS AT commands	WG T2		0																
	424		other AT commands	WG T2		o																
426 Wide Area Data Synchronisation WG T2	425		Alternatives to AT commands (TBD)	WG T2	1	0																
	426		Wide Area Data Synchronisation	WG T2	1	<b>~</b>	+															
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Page 12						Pad	ge 12															

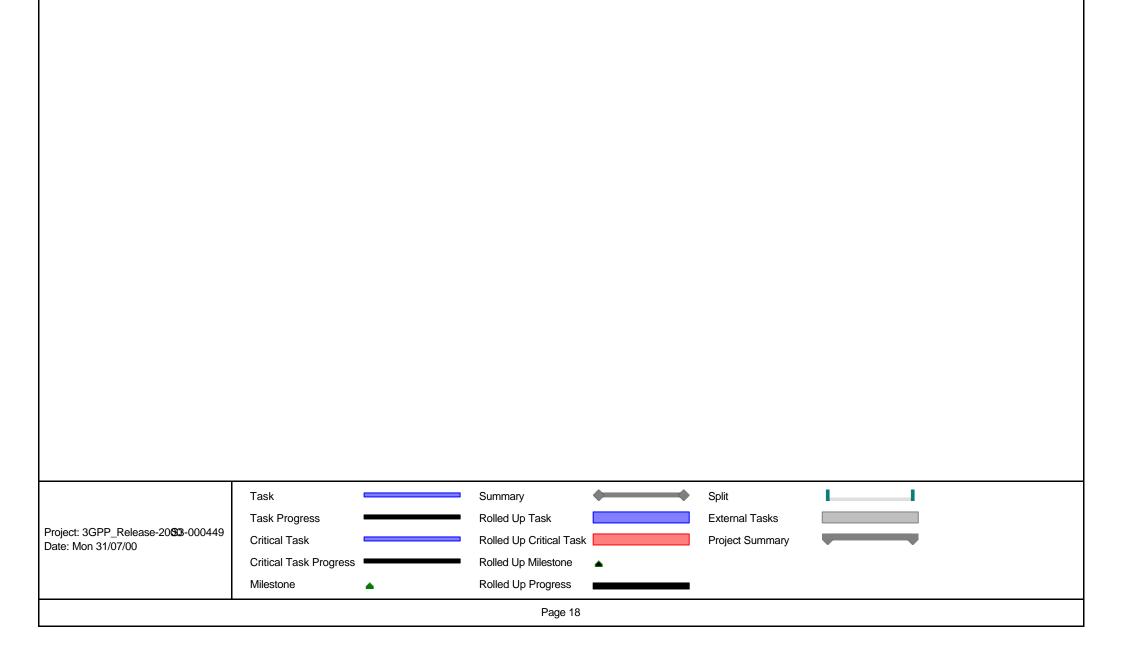
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427		Continues evolution of Synchronisation protocol	WG T2		0											
428	📰 🍓	vObjects and Other Constructs for Use in Data Syn	WG T2								•					
429		UE Multiplexer	WG T2		•											
430		Multiplexing protocol (simultaneous sessions over U	WG T2		0											
431		UICC/ME Performance Enhancements (Feasibility Study)	WG T3		0											
432	🎫 🚷	Terminal local model	WG T2								•					
433		UICC Java API	WG T3								<					
434		Specification	WG T3								•					
435		Test specification	WG T3								•					
436	۲	UICC/USIM database specification	WG T3		0											
437	🖽 🚷	Common PCN Handset Specification (CPHS)	WG T3								•					
438		(U)SIM toolkit	WG T3								<					
439	🎫 🚷	Enhancements to (U)SIM toolkit secure messaging	WG T3								•					
440	🎫 🚷	Protocol Standardisation of a SIM Toolkit Interpreter	WG T3								•					
441	🎫 🚷	SIM/USIM Interworking	WG T3								•					
442	۹	Protection for user plane data	WG SA3	.	<b>\</b>											
443	1	Integrity protection in access network	WG SA3			+										
444	<b>6</b>	Integrity protection in core network	WG SA3		0											
445	6	Network based end-to-end security	WG SA3		0											
446	۹	Core network security	WG SA3	.	<b>\</b>	-					<b>—</b>					
447		Control plane protection in core network (e.g.	WG SA3		•	+		<u> </u>			<b>—</b>					
448	🎫 终	Main aspects	WG SA3													
449		Integration of GTP signalling security architectu	WG CN4													
450		User plane protection in core network (e.g., p	WG SA3		•			<u> </u>		_	<b>—</b>					
451	🎫 终	Main aspects	WG SA3													
452		Integration of GTP signalling security architectu	WG CN4													
453		MAP application layer security	WG SA3		•	-		<u> </u>		_	<b></b>					
454	🎫 终	Main aspects	WG SA3													
455		Other stage 3 impacts	WG CN4													
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456	<b>%</b>	Key management for core network security	WG SA3																				
457	🤌 🕵	Evolution of GSM CS algorithms (e.g. A5/3 development a	WG SA3				+																
458		Evolution of GSM PS algorithms (e.g. GEA 2 deploy	WG SA3			<b>~</b>	+			-			-	<									
459	🎫 终	Main aspects	WG SA3				+								1								
460		GEA capability indication in MS CM	WG SA3				+								1								
461	۹	GERAN Security	WG SA3			<b></b>	+																
462	📰 🧼	Main aspects	WG SA3				+								1								
463	📰 🧼	Production of new algorithm	WG SA3				+									<b>_</b>							
464	ø 🐁	Visibility and Configurability of security	WG SA3				+																
465	1	FIGS	WG SA3				+																
466	<u> </u>	General Security Enhancements	WG SA3				+																
467		Definition of billing, charging and management	WG SA5																				
468		Definition of Architecture and Principles	WG SA5																				
469	1	Key Administration & Distribution	WG SA5		0																		
470		Co-ordination O&M messaging Specification	WG RAN3		0																		
471	1	Performance Management	WG SA5		0																		
472	1	Fault Management	WG SA5		0																		
473	<b>6</b>	Configuration Management	WG SA5		0																		
474		Charging	WG SA5		0																		
475		Call Cell Trace	WG SA5		0																		
476		Security Management (Key Administration an	WG SA5																				
477		Stage 2	WG SA5		0																		
478		Stage 3	WG SA3		0																		
479	1	GSM LCS O&M Project	WG SA5		0																		
480	ø 🐁	Service Management	WG SA5		0																		
481	ø 🐍	Support of Localized Service Area (SoLSA)	WG SA1																				
482	<b>6</b>	Basic concept of SoLSA (broadcast LSA ids, z	WG SA1																				
483		Development of SoLSA service descriptions	WG SA1		0																		
484	1	LSA definition	WG SA1		0																		
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ID	0	Name	Resource Na	Dec	Jan Feb Mar	r Ap	or May Jun	n Jul	I A	ug Sep	Oct No	v Dec	Jan	Feb Mar	Apr N	<i>l</i> lay Jun	Jul A	ug Sep	Oct No	v Dec
485	ø	LSA selection	WG SA1		0															
486		LSA information broadcast	WG RAN2		0															
487		Iu signalling support for SoLSA	WG RAN3		0															
488		Possible Iur signalling support for SoLSA	WG RAN3		0															
489		Possible lub signalling support for SoLSA	WG RAN3		D															
490	1	Adapt GSM stage 2 SoLSA for UTRAN	WG SA2		o															
491		Adapt SoLSA core network CRs in CN WGs	TSG CN		0															
492		SoLSA specifications for UTRAN in RAN WGs	TSG RAN		0															
493		Adapt SoLSA UE and USIM specifications in T	TSG T		0															
494		Study the usage of geographical information fc	WG SA1		0															
495	6	Localized Service Area (LSA) indication	WG SA1		0															
496	6	Preferential access (cell access priority for LSA us	WG SA1		0															
497	6	Idle mode support (favouring LSA cells in idle mode)	WG SA1		0															
498	6	Active mode support (favouring LSA cells in active	WG SA1		0															
499	6	Exclusive access (private cells)	WG SA1		0															
500	1	LSA only access (type cordless or WLL)	WG SA1		0															
501		GERAN-SoLSA an d UTRAN-SoLSA interoperation	WG SA2		0															
502	۹.	Location Services	WG SA2		<b>~</b>	-		+												
503		Geographical Area description: DEfined Geogr	WG SA1					┢												
504	🎫 🧼	Stage 1	WG SA1					-												
505	💷 🍥	Stage 2	WG SA2			-		_												
506		LCS quality level request (QOL)	WG SA1					┢												
507	💷 🍥	Stage 1	WG SA1					┢	1											
508	💷 🍥	DELETED Stage 3	WG RAN2					-												
509		Event based and Periodic LCS	WG SA1					┢												
510	💷 🧼	Stage 1	WG SA1					┢	1											
511		Stage 2	WG SA2					+												
512	💷 🍥	Specification	WG SA2																	
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11       10       10       10         156       10       DELETED impact on UTAN       WG RANZ         17       V       LCS network margament       WG SANZ         18       10       Security aspects of LCS       WG SANZ         19       V       LCS support in the core network CS domain       WG SANZ         101       V       Stage 1       WG SANZ         102       Stage 2       WG SANZ         103       MG SANZ       WG SANZ         104       Loss support in the ION subsystem       WG SANZ         105       MC Paignaling UE (MS) SCSN (UM WG CM       WG SANZ         105       MG Paignaling to LCS       WG SANZ         105       MG SANZ       WG SANZ         103       Stage 2       WG SANZ         104       Stage 3       WG CM         105       DELETED Los onthatmother assignments FDO       WG SANZ         105       DELETED Los onthatmother assignment FDO       WG RANZ         105       DELETED Los ont		0				Jan	Feb I	Mar /	Apr Ma	ay Jur	Jul	Aug	Sep	Oct N	lov Dec	Jan	Feb Ma	r Apr	May Jun	Jul Aug Sep	Oct Nov [	Dec
816       10       DELETED Impact on UTRAN       WG RANE         517       CLCS Houtvoin management       WG SA3         518       10       Security aspects of LCS       WG SA3         520       LCS support in the core network CS domain       WG SA3         521       LCS support in the core network PS domain       WG SA3         522       10       Stage 3       WG CM         522       10       Stage 3       WG CM         523       10       LCS support in the Core network PS domain       WG SA3         524       10       Loyor 3LCS signaling UE (MS) SGSN (UM       WG CM         525       11       Loyor 3LCS signaling UE (MS) SGSN (UM       WG CM         526       12       Stage 3       WG CM         527       12       Stage 3       WG SA3         528       13       Stage 3       WG SA4         528       14       Stage 3       WG SA4         529       15       Stage 3       WG SA4         531       DELETED Logint method enhancements       TSG RA4         532       10       DELETED Logint method STSG RA4         533       10       DELETED Logint method STS RA4         544       DELETED Logint	514	~	DELETED Stage 3	WG RAN2					<b>\$</b>		+		-									
817       U.C.S network management       WG SA6         518       Security aspects of L.C.S       WG SA6         519       U.C.S support in the core network QS domain       WG SA6         521       Slage 1       WG SA6         522       Slage 1       WG SA6         523       Stage 3       WG CM1         524       L.C.S support in the core network QS domain       WG SA6         525       MAP signaling tor LCS       WG CM4         526       MAP signaling tor LCS       WG CM4         527       Slage 1       WG SA6         528       MAP signaling tor LCS       WG CM4         529       Slage 2       WG SA6         520       DELETED Advanced LCS methods       TSG RA6         521       DELETED Location massurements FDD       WG RA42         523       DELETED Location massurements FDD       WG RA42         524       DELETED Location massurements FDD       WG RA42         525       DELETED Location massurements FDD       WG RA42	515	🎫 🍥	Impact on MAP	WG CN4							+											
518       Image: Security aspects of LCS       WG SA3         519       Image: LCS support in the core network CS domain       WG GA4         520       Image: LCS support in the core network CS domain       WG SA3         521       Image: Support in the core network CS domain       WG SA3         522       Image: Support in the core network CS domain       WG SA3         523       Image: Support in the core network CS domain       WG SA3         524       Image: Support in the Core network CS domain       WG SA3         524       Image: Support in the Core network CS domain       WG SA3         524       Image: Support in the Core network CS domain       WG SA3         525       Image: Support in the COS       WG CA4         526       Image: Support in the COS       WG CA4         527       Image: Support in the COS       WG CA4         528       Image: Support Imag	516	📰 🍥	DELETED Impact on UTRAN	WG RAN2							+											
111       Vic CS support in the core network CS domain       Vic CN4         120       LCS support in the core network PS domain       WG SA2         121       Stage 1       WG SA3         122       Stage 2       WG SA3         123       Stage 3       WG CM4         124       Layer 3 LCS signaling UE (MS)-SGN (UW       WG CM4         125       MAP signaling for LCS       WG CM4         126       Stage 3       WG CM4         127       Stage 1       WG SA3         128       LCS support in the IN N subsystem       WG SA3         128       Stage 2       WG SA3         129       Stage 3       WG CM4         120       Stage 3       WG CM4         121       Stage 3       WG CM4         123       DELETED Low Interface support for LCS       WG SA43         121       DELETED Low Signaling UE-SRNC (TDDAFDD)       WG RA44         123       DELETED Low Signaling UE-SRNC (TDDAFDD)       WG RA44         123       DELETED Low Signaling UE-SRNC (TDDAFDD)       WG RA44	517	1	LCS network management	WG SA5							-											
500       LCS support in the core network PS domain       WG SA2         521       Stage 1       WG SA2         522       G       Stage 2       WG SA2         523       G       Layer 3 LCS signaling UE (MS)-SGSN (UN       WG CM1         525       G       LCS support in the IM CN subsystem       WG SA2         526       G       LCS support in the IM CN subsystem       WG SA2         527       G       Stage 2       WG SA2         528       G       Stage 2       WG SA2         529       G       Stage 2       WG SA2         529       G       Stage 2       WG SA2         529       G       Stage 3       WG CM4         530       G       DELETED Lin interface support for LCS       WG RA42         531       G       DELETED Lin interface support for LCS measurer       WG RA42         532       G       DELETED Loration measurements FDD       WG RA42         533       G       DELETED Loration subsitions on Subsisions on Subsitions on Subsitions on Subsisions on Subsitions on S	518	🎫 终 📃	Security aspects of LCS	WG SA3																		
521       IIII (M)       Skage 1       WG SA1         622       IIII Skage 2       WG SA2         623       Stage 3       WG CM1         624       IIII Layer 3 LCS signaling UE (MS) -SGSN (UM WG CM1       WG CM2         625       IIIII LGS Interperation the IM CN subsystem       WG SA2         626       LCS support in the IM CN subsystem       WG SA2         627       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	519	1	LCS support in the core network CS domain	WG CN4																		
522       1       Stage 2       WG SA2         523       C       Stage 3       WG CM1         524       1       Layer 3 LCS signaling UE (MS)-SGSN (W       WG CM1         525       MAP signaling for LCS       WG SA2         526       LCS support in the IM CN subsystem       WG SA2         527       1       Stage 2       WG SA2         528       Stage 3       WG CM1         529       1       Stage 3       WG CM1         520       1       Stage 3       WG CM1         521       0       Stage 3       WG CM1         522       1       Stage 3       WG CM1         523       1       DELETED Int infindo support for LCS       WG RAN2         531       0       DELETED Advanced LCS methods       TSG RAN         533       1       DELETED Locs ingnaling UE-SRNC (TDDSFDD)       WG RAN2         534       1       DELETED Locs ingnaling UE-SRNC (TDDSFDD)       WG RAN2         535       1       DELETED Locs ingnaling Specifications on assistance       WG RAN2         536       1       DELETED Int and Lbis upport for LCS measurer       WG RAN2         537       1       LCS interoperation aspects       WG SA2	520		LCS support in the core network PS domain	WG SA2					<b>~</b>		+											
523       Stage 3       WG CN1         524       IIII       Layer 3 LCS signaling UE (MS)-SGSN (UM)       WG CN1         525       IIIII       MAP signaling for LCS       WG CN4         526       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	521	🎫 🍥	Stage 1	WG SA1							+											
524       Image: Single S	522		Stage 2	WG SA2							+											
525       Image: MAP signaling for LCS       WG CN4         526       LCS support in the IM CN subsystem       WG SA2         527       Image: Stage 1       WG SA2         528       Image: Stage 2       WG SA2         529       Image: Stage 3       WG CN4         530       Image: Stage 3       WG CN4         531       DeLETED low interface support for LCS       WG RAN3         532       DeLETED Location measurements FDD       WG RAN3         533       DeLETED Location measurements FDD       WG RAN3         534       DeLETED Location measurements FDD       WG RAN3         535       DELETED Location measurements FDD       WG RAN3         536       DELETED Location measurements FDD       WG RAN3         537       DELETED Location measurements FDD       WG RAN3         538       Co-ordinated development of GSM LCS Phase 2       WG SA2         539       Co-ordinated development of GSM LSC Phase 2       WG SA2         539       Coordinated development of GSM LSC Phase 2       WG SA2         541       Service description       WG SA2         542       Stage 2       WG SA2	523		Stage 3	WG CN1					<b>~</b>		+											
526 LCS support in the IM CN subsystem WG SA2   527 Im Wo Stage 1 WG SA1   528 Im Stage 2 WG SA2   529 Im Stage 3 WG CN4   530 Im Wo Stage 3 WG CN4   531 DELETED Lu interface support for LCS WG RAN3   532 Im OELETED LCS signaling UE-SRNC (TDD&FDD) WG RAN2   533 Im OELETED LCS signaling UE-SRNC (TDD&FDD) WG RAN2   534 Im OELETED LCS signaling UE-SRNC (TDD&FDD) WG RAN2   535 Im OELETED LTD and lub support for LCS measure WG RAN2   536 Im OELETED LTD and lub support for LCS measure WG RAN2   537 LCS Interoperation aspects WG SA2   538 Im Ocordinated development of GSM LCS Phase (WG SA2   539 Im Ocordinated development of GSM LCS Phase (WG SA2   540 Im Service description   541 Im Service description   542 Im Service description   543 Im Service description   544 Im Service description   544 Im Service description   545 Stage 2   546 Stage 2	524		Layer 3 LCS signaling UE (MS) -SGSN (UM	WG CN1							-											
527       III W       Stage 1       WG SA1         528       III Stage 2       WG SA2         529       III Stage 3       WG CA4         530       III W       Fe-Use of Position method enhancements       TSG RAN         531       III DELETED Lu interface support for LCS       WG RAN3         532       III DELETED Location measurements FDD       WG RAN3         533       III DELETED Lurand lub support for LCS methods       TSG RAN         534       III DELETED Location measurements FDD       WG RAN3         535       III DELETED Lurand lub support for LCS measurer       WG RAN3         536       III DELETED Lurand lub support for LCS measurer       WG RAN3         537       DELETED Stage 3 specifications on assistance       WG SA2         538       III DELETED Stage 3 specifications assistance       WG SA2         539       III DELETED Stage 3 specifications on assistance       WG SA2         540       III DELETED Stage 3 specifications on assistance       WG SA2         541       III DELETED Stage 3 specifications on assistance       WG SA2         542       III DELETED Stage 3 specifications on assistance       WG SA2         541       III DELETED Stage 3 specifications on assistance       WG SA2         542       Stage	525		MAP signaling for LCS	WG CN4							-											
522 III Stage 2 WG SA2   523 III Stage 3 WG CN4   530 III Pe-Use of Position method enhancements TSG RAN   531 DELETED lu interface support for LCS WG RANS   532 IV DELETED Advanced LCS methods TSG RAN   533 III DELETED Location measurements FDD WG RANS   534 III DELETED Location measurements FDD WG RANS   535 III DELETED Stage 3 specifications on assistance WG RANS   536 III DELETED Stage 3 specifications on assistance WG SA2   537 LCS interoperation aspects WG SA2   538 III Co-ordinated development of GSM LCS Phase 1 WG SA2   539 III Common LCS System and CN stage 2 specifica WG SA2   540 IV LCS application interfaces (LCS-OSA) WG SA1   541 III Service description WG SA2   542 III Stage 2 WG SA2	526		LCS support in the IM CN subsystem	WG SA2					<b>~</b>		+		-									
529 III   530 III   531 DELETED luinenface support for LCS   532 V   533 III   DELETED Advanced LCS methods TSG RAN   533 III   DELETED Locs signaling UE-SRNC (TDDBFDD)   VG RAN2   534 III   DELETED luin and lub support for LCS   WG RAN3   535 III   DELETED Location measurements FDD   WG RAN3   536 III   DELETED Stage 3 specifications on assistance   WG SA2   538 III   Co-ordinated development of GSM LCS Phase 1   537 LCS interoperation aspects   WG SA2   538   530   530   Common LCS System and CN stage 2 specifica   WG SA1   541   541   Service description   WG SA2   542   Stage 2	527	🎫 🍥	Stage 1	WG SA1							-											
530Image: Second Se	528		Stage 2	WG SA2							+											
531       DELETED lui interface support for LCS       WG RAN3         532       DELETED Advanced LCS methods       TSG RAN         533       DELETED Locstion measurements FDD       WG RAN3         534       DELETED lur and lub support for LCS measurer       WG RAN3         536       DELETED Stage 3 specifications on assistance       WG RAN2         537       DELETED Stage 3 specifications on assistance       WG RAN2         538       Co-ordinated development of GSM LCS Phase 1       WG SA2         539       Common LCS System and CN stage 2 specifica       WG SA2         540       Service description       WG SA1         541       Service description       WG SA2         542       Stage 2       WG SA2	529		Stage 3	WG CN4							-											
532       Image: Construction of CS methods       TSG RAN         533       Image: Construction of CS measure methods FDD       WG RAN2         534       Image: Construction measurements FDD       WG RAN3         535       Image: Construction of CS measure WG RAN3         536       Image: Construction of CS measure WG RAN3         537       Image: Construction of CS measure WG RAN2         538       Image: Construction of CS M LCS Phase 2       WG SA2         539       Image: Construction of CS M LCS Phase 2       WG SA2         539       Image: Construction of CS M LCS Phase 2       WG SA2         540       Image: Construction of MI LCS OSA)       WG SA1         541       Image: Service description       WG SA2         542       Image: Stage 2       WG SA2	530	🎫 🍥	re-Use of Position method enhancements	TSG RAN							+											
533 Image: Delete D LCS signaling UE-SRNC (TDD&FDD) WG RAN2   534 Image: Delete D Location measurements FDD WG RAN3   535 Image: Delete D Location measurements FDD WG RAN3   536 Image: Delete D Location measurements FDD WG RAN3   537 Delete D Location spacets WG SA2   538 Image: Delete D Location interfaces (LCS-OSA) WG SA2   539 Image: Delete D LCS application interfaces (LCS-OSA) WG SA1   541 Image: Delete D LCS application interfaces (LCS-OSA) WG SA1   542 Image: Delete D LCS Application Interfaces (LCS-OSA) WG SA2	531		DELETED Iu interface support for LCS	WG RAN3																		
534Image: Construction measurements FDDWG RAN1535Image: Construction measurements FDDWG RAN3536Image: Construction and Subport for LCS measureWG RAN3537Image: Construction aspectsWG RAN2538Image: Construction aspectsWG SA2539Image: Construction aspectsWG SA2540Image: Construction aspectsWG SA1541Image: Service descriptionWG SA2542Image: Stage 2WG SA2	532	<b>\$</b>	DELETED Advanced LCS methods	TSG RAN					<b>\$</b>		+											
535Image: Delete Dur and lub support for LCS measurerWG RAN3536Image: Delete D Stage 3 specifications on assistanceWG RAN2537Image: Delete D Stage 3 specifications on assistanceWG RAN2538Image: Delete D Stage 3 specifications on assistanceWG SA2538Image: Delete D Stage 3 specifications on assistanceWG SA2538Image: Delete D Stage 3 specifications on assistanceWG SA2538Image: Delete D Stage 3 specifications on assistanceWG SA2539Image: Delete D Stage 3 specifications on assistanceWG SA2540Image: Delete D Stage 2WG SA1541Image: Delete D Stage 2WG SA2542Image: Delete D Stage 2WG SA2542Image: Delete D Stage 2WG SA2	533		DELETED LCS signaling UE-SRNC (TDD&FDD)	WG RAN2							+											
SideDELETED Stage 3 specifications on assistanceWG RAN2537LCS interoperation aspectsWG SA2538Co-ordinated development of GSM LCS Phase 2WG SA2539Common LCS System and CN stage 2 specificaWG SA2540Service descriptionWG SA1541Service descriptionWG SA2542Stage 2WG SA2	534		DELETED Location measurements FDD	WG RAN1																		
537LCS interoperation aspectsWG SA2538Co-ordinated development of GSM LCS Phase 2WG SA2539Common LCS System and CN stage 2 specificaWG SA2540Service descriptionWG SA1541Service descriptionWG SA2542Stage 2WG SA2	535		DELETED lur and lub support for LCS measurer	WG RAN3																		
538 Co-ordinated development of GSM LCS Phase 2   539 Common LCS System and CN stage 2 specifica   540 Service description   541 Service description   542 Stage 2	536		DELETED Stage 3 specifications on assistance	WG RAN2																		
539Image: Common LCS System and CN stage 2 specificaWG SA2540Image: Common LCS System and CN stage 2 specificaWG SA1541Image: Common LCS System and CN stage 2 specificaWG SA1542Image: Common LCS System and CN stage 2WG SA2542Image: Common LCS System and CN stage 2WG SA2	537		LCS interoperation aspects	WG SA2					<b>~</b>		+											
540Service descriptionWG SA1541Service descriptionWG SA1542Stage 2WG SA2	538		Co-ordinated development of GSM LCS Phase 2	WG SA2							-											
541     Image: Service description     WG SA1       542     Image: Stage 2     WG SA2	539		Common LCS System and CN stage 2 specifica	WG SA2	1						+											
542 Stage 2 WG SA2	540	<b></b>	LCS application interfaces (LCS-OSA)	WG SA1	1				<b>\$</b>		+											
	541		Service description	WG SA1	1						+											
Page 16	542		Stage 2	WG SA2	1						+											
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543		Possible enhancements in MeXE support	WG SA1											-								
544		Impact on S1	WG SA1				1															
545		Impact on T2	WG T2				1															
546		Possible enhancements in CAMEL Phase																				
547		Impact on S1	WG SA1				1															
548		Impact on N2	WG T2				1															
549		Possible OSA support for LCS	WG CN5				1															
550		Exception procedures	WG SA2											-								
551		Stage 2	WG SA2				1															
552		Stage 3	TSG CN				1															
553		LCS UTRAN	WG SA2																			
554		Stage 2	WG SA2																			
555	<b>1</b>	DELETED Stage 3	WG RAN2				1															
556		DELETED LCS in UTRA TDD	WG RAN2											-								
557		DELETED Radio Resource Management (for LC:	WG RAN2				1															
558		DELETED Location measurements TDD Sept.	WG RAN1				1															
559		DELETED lur, lub support for LCS measuremen	WG RAN3				1															
560		DELETED LMU handling	WG RAN2																			
561		DELETED Stage 2	WG RAN2				1															
562		DELETED LMU TDD measurements	WG RAN1				1															
563		DELETED LMU FDD measurements	WG RAN1				1															
564		DELETED LMU SRNC signaling details lub and lt	WG RAN3				1															
565		DELETED Testing LMU functionality	WG RAN4																			
566		DELETED Testing LCS functionality in Node B a	WG RAN4											-								
567		DELETED Define test methods and test cases	WG RAN4				1															
568		DELETED Define LCS performance requiremen	WG RAN4				1															
						Pa	ge 1	7														



# 3GPP TSG SA WG3 Security — S3#14

# 2-4 August, 2000

# Oslo, Norway

### How to use MS Project

Use the Gantt Chart view in the "view" menu. Unselect the "View Bar" (also in the "View" menu) if selected.

In this view, the screen is split between a part on the left showing the WIs and all the related fields, and a part on the right showing the calendar. You can adjust the relative size of these parts by moving the separating line. You can scroll right and left within each part by using the horizontal scroll bars at the bottom.

 To view Features only, or Features and BB, or F and BB and WT Click on top of the "Name" columns (in the box where "Name" is written) Then click on the "-" icon (bellow the floppy icon): only the features appear Then, each click on the "+" icon expands to one outline level (i.e. one click: F+BB, one other click: F+BB+WT).

Any click on the "-" icon goes directly to the main level (only features)

You can also expand the BBs/WTs of only one feature: click on the "+" in a small box just on the left of the name of the feature you want to expand.

2. To select the fields you want to appear on the screen

To hide a field: Right click in the title of the column that you want to hide, and select "hide field".

To add a field: Right click in the title of the column that will be located just after the field you want to add.

Go to "Insert Column ... "

### Maurice and I have made a macro (press "CTL + a" to run it) to make appear all the fields used by 3GPP and only those. These fields are specified in the "WI attributes" document. All the other fields are not used but it's unfortunately impossible to delete them.

Note that you have to slightly re-arrange the view after running this macro: for some reason, the vertical line separating the table from the calendar goes completely to the left: just move it to the right.

Note that you can read the notes using the "indicators" field (first column): just point your mouse to the icons in the "indicator" field.

3. To view only the WT being handled by one (set of) WGs (filter):

Choose the level of details you want to have (only F, or F and BB, or F and BB and WT) with the procedure just explained above.

The "Resource Name" field should be present on your screen as explain in the second point.

Then click to the button located just to the right of a text bar where it's written "All Tasks" (the button represents a kind of small funnel and a sign "="). It makes appear a series of small triangles just to the right of each field name.

Click on the small triangle located right from the "Resource Name" field and select the filtering criteria.

You can also filter by any (set of) criteria. Don't forget that **the filter applies to the current view**, i.e. it combines all the successive filtering you've made. To cancel all the filters, click again on the small funnel. To cancel one filter, go to "(all...)" in the menu where you select your filtering criteria.

4. To customise the bar diagrams in the right area (e.g. to make appear or not the name of the involved WG next to each bar)

Right click anywhere in the right area, except on a bar or where the names of the month are.

Go to Bar Styles, "Text" tab, "right", and then select the desired field ("resource initial" in this case). To delete it, go to the text bar on top of "left" and delete manually the name of the field in this text bar.

### 4. Arrangement of the WIs

To move a WT, or a (BB + all related WTs), or a (F + all related BBS + all related WTs), just select the WT (or the BB, or the F) by clicking in the left-most column (indicating a number), and drag it to the place you want to move it (or sometimes one line above the place you want to move it: it seems there's a small bug...). Careful: never make a cut and paste: the unique ID would be changed. To insert a WI between two existing ones: select the WI that will follow the one you want to introduce (also by clicking in the left-most column) and press Insert. Alternatively, you can copy and paste an existing task and then modify the pasted one.

To change the outline level of a WI (e.g. from F to BB): just use the left or right arrows icons located bellow the floppy icon.

#### 5. To adjust the calendar view

Click on the icons showing a magnifying glass with a "+" or a "-" to expand and reduce the details in the calendar view.

#### 6. Other Advises

Don't be confused: what appears in bold is only a WI with children WI (e.g. a BB having several WTs). A feature without any BB will not appear in bold. Sometimes, it looks like everything is blocked: don't panic: just press "enter" to confirm the change you've just done. Also don't forget to press "enter" before to switch to another program, otherwise you'd lose your last modification.

Be careful when deleting the content of a cell: never select the cell and press "delete": this causes the deletion of the complete line!! Two solutions:

1. You paste a blank cell (that you've previously copied from anywhere else)

or 2. You go to the text line and delete all the text