Subject:	**Project Plan Outline: Location services in UMTS and cell broadcast services**
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Agenda item:	Project Coordination

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Introduction

Attached please find TR 30.806, Project plan outline on Location services (LCS) and Cell Broadcasting (CBS) services in UMTS for inter-group co-ordination in 3GPP.

Proposal

This version 1.2.1 of the Project Plan Outline TR 30.806 is presented to CN Plenary for information and comments.

3G PD 30.806-1.2.1 (1999-12)

Permanent Document

**3rd Generation Partnership Project
3GPP work program
Inter group co-ordination aspects
Project Plan on location and cell broadcast services in UMTS
(3G PD 30.806 version 1.2.1)**

Reference

Work Item Location services and cell broadcast
services in UMTS

Keywords

Location services (LCS),
Cell broadcast services (CBS),
Digital cellular telecommunications system,
Universal Mobile Telecommunication System
(UMTS), UTRA, UTRAN, IMT-2000

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Contents

Foreword

[Ed note: to be added by ETSI MCC]

1 Scope

This Permanent document describes the work program for location services (LCS) and cell broadcast services (CBS) in UMTS.

2 References

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

2.1 Normative references

[1] Tdoc TSGS#4(99)327, Proposed Work Item on Location Services for UMTS

[2] 3G PD 30.801, Overall Project Plan, Inter-group co-ordination

2.2 Informative references

[3] 3G TS 25.305: "Functional stage 2 specification of location services in UTRAN"

[4] GSM 10.71, Digital cellular telecommunications system (Phase 2+); Project scheduling and open issues: Location services (LCS)

3 Release 99

3.1 LCS - Work identified to fulfill the requirements for R99

Important location services features that need to be included in Release 99 should be identified, agreed and specified, or at least prepared for, in order to enable the introduction of more positioning methods later, with minimum impact on systems in operation.

The measurement method(s) concluded to be feasible shall be selected and standardized in release 99.

LCS Stage 1 and Stage 2 specifications shall be completed in 1999 and the full Stage 3 specifications shall be completed in 2000.

The RAN WGs are already studying these issues and the results of these studies are documented in [3].

3.1.1 Work to be done in T1P1

T1P1 continues the work on location services in GSM and plans to finalize GSM LCS Phase 2 in November 1999. Phase 3 includes LCS for GPRS and possibly Camel support for location services, but work on GSM LCS phase 3 has not yet started. It is seen that LCS for GPRS will have much in common with LCS for UMTS packet switched services.

3.1.2 Work to be done in TSG SA

3.1.2.1 Work to be done by WG S1

Extract from UTRAN Stage 2 [3] the material which is of stage 1 nature, and incorporate the information (eventually with changes) into the common GSM-UMTS Stage 1 specification 22.071 on Location Services.

Extract LCS service requirements from existing UMTS specifications and other related material to be elaborated and incorporated in the stage 1 specification.

3.1.2.2 Work to be done by WG S2

The following work is foreseen in SA to generate Release 99 specifications on location services in UMTS:

Generate an LCS System level Stage 2 specification containing the following:

- Functional description of location services in UMTS, release 99, including LCS for packet switched services

- System architecture for location services in UMTS, release 99

The system stage 2 written by S2 should be done with a maximisation of synergies with GSM LCS Phase 2 as requested by the WI description (Ideally it should be a unique system functional architecture)

S2 stage 2 shall describe the overall system and its architecture for LCS in UMTS to support the services described in the Stage 1 specification . UTRAN is treated as one block and the information flow between the Core Network and UTRAN over the Iu interface shall be described.

3.1.2.3 Work to be done by WG S3

Study and verify existing requirements and elaborate on security and privacy aspects of location services.

3.1.2.4 Work to be done by WG S4

None identified.

3.1.2.5 Work to be done by WG S5

[To be agreed in SA5, wording to be improved.]

Basic network management of LCS functions, e.g. inclusion of LCS NEs in the information model for support of Fault Management.

3.1.3 Work to be done in TSG RAN

3.1.3.1 Work to be done by WG R1

Location positioning implications to the Radio Layer 1.

- measurements to be provided to upper layers for the release 99 positioning method(s) (done)

- L1 mechanism/procedures for the provision of the measurements (done)

There has so far been no specific discussion on positioning aspects for TDD and no LCS specific text, except SFN-SFN

time difference in 25.215, is in the TDD specifications.

3.1.3.2 Work to be done by WG R2

Completion of the Technical Specification on UTRAN Stage 2 [3]with the following:

- reference model (stage 2) of LCS for UE and UTRAN

- identification of the positioning method(s) to be supported in release 99 specifications

Identification of the measurements to be provided by the physical layer in 25.302 (done), with a selection of the mandatory measurements in release 99 for the release 99 positioning methods (done)

Incorporation of the changes according to the final version of 25.305 on the radio interface protocol specifications.

Overlapping between the RAN2 specifications and other specifications on LCS should be avoided where possible.

3.1.3.3 Work to be done by WG R3

[To be agreed in RAN WG3]

Location positioning implications to the UTRAN interfaces based on TS 25.305 for the release 99 positioning method(s):

- Iu interface, detail the area-representation delivered over Iu.

- Iub interface, so far no specific support specified for LCS over Iub, to be studied for Release 2000

- Iur Interface, so far no specific support specified for LCS over Iur, to be studied for Release 2000.

R3 will specify the Iur and Iub sSupport for the selected 3 specific positioning methods (Cell coverage based, OTDOA with Idle periods, GPS-assisted) on Iur and Iub will be considered for completion to RAN#7, i.e. to be included in Release 99 and elaborated in January-March 2000.

3.1.3.4 Work to be done by WG R4

Study of the system RF scenarios and input requirements to WG1 on the accuracy for the physical layer measurements based on the release 99 positioning method(s).

3.1.4 Work to be done in TSG CN

3.1.4.1 Work to be done by WG N1

[To be discussed and agreed in CN WG1.]

From N1 terms of reference: Location services L3 signalling between the user equipment and the core network.

N1 shall adapt [a defined subset of] the LCS specifications (belonging to N1) developed for GSM LCS Phase 2 in release 98 to include support for UMTS LCS in release 2000 [release 1999?], as defined in UMTS system stage 2 and UTRAN stage 2 specifications.

The specification subset is based on the following basic assumptions for LCS in UMTS:

- GMLC is connected to 3G-MSC and 3G-SGSN over identical interfaces, ie Lg in GSM

- RNC contains SMLC functionality

- There are only two types of LMU: LMU associated with Node B and stand-alone LMU

3.1.4.2 Work to be done by WG N2

[To be discussed and agreed in CN WG2.]

N2 shall adapt [a defined subset of] the LCS specifications (belonging to N2) developed for GSM LCS Phase 2 in release 98 to include support for UMTS LCS in release 2000 [release 1999?], as defined in UMTS system stage 2 and UTRAN stage 2 specifications.

The specification subset is based on thefollowing basic assumptions for LCS in UMTS:

- GMLC is connected to 3G-MSC and 3G-SGSN over identical interfaces, ie Lg in GSM

- RNC contains SMLC functionality

- There are only two types of LMU: LMU associated with Node B and stand-alone LMU

Signalling support for location services between GMLC and 3G-SGSN and GMLC and 3G-MSC.

- MAP messages for LCS

- Camel support for LCS

3.1.4.3 Work to be done by WG N3

None identified.

3.1.4.4 Work to be done by WG N-SS

None identified.

3.1.5 Work to be done by TSG T

3.1.5.1 Work to be done by WG T1

None identified

3.1.5.2 Work to be done by WG T2

Terminal Services and Capabilities for LCS.

3.1.5.3 Work to be done by WG T3

None identified

3.2 LCS - List of R99 deliverables on LCS in UMTS

List of deliberables					
Del #	**Title**	**Working Group**	**Editor**	**Completion date**	**Comment**
22.071	Location Services Service description, Stage 1	S1	Randolph Wohlert, Pacific Bell Wireless	12/99	UMTS specific requirements to be added.
22.100	UMTS Phase 1	S1			
22.105	Services and service capabilities	S1			Main requirements for location features in UMTS
23.032	Universal geographical area description (GAD)	N1		12/99	Common to GSM and UMTS

23.110	UMTS Access stratum; Services and functions	S2	Oscar Lopez-Torres, T-Mobil		Requirements for UE Location Identification
23.171	Location Services in UMTS; Functional description, System Stage 2	S2	Jan Kåll, Nokia	12/99	Including S3, S5, N1, N2 and T2 aspects on LCS?
23.060	General Packet Radio Service (GPRS); Service description; Stage 2	S2	Hans-Petter Naper, Motorola	12/99	Support for location reporting included
25.413	UTRAN Iu interface RANAP signalling	R3	Atte Länsi-salmi, Nokia	12/99	Support for location request and response included.
25.302	Services provided by the physical layer	R2		12/99	done
25.305	Functional Stage 2 Specification of Location Services in UTRAN	R2	David Steer, Nortel Networks	10/99	Including R1 and R3 aspects?
30.806	Project plan on Location and cell Broadcast Services	S2	Jan Kåll, Nokia	12/99	(this document)
32.102	3G Telecom management architecture	S5		12/99	Inclusion of LCS NEs in the information model
25.214	Physical Layer Procedures (FDD)	R1		12/99	Idle Periods for OTDOA-IPDL
?-25.215	Physical layer; measurements (FDD)	R1		12/99	Measurements for RTT, UE_RX-TX, SFN-SFN observed time difference (OTDOA) and GPS Will 25.305 cover also L1 functionality?
? 25.225	Physical layer; measurements (TDD)	R1			Will 25.305 cover also L1 functionality?
?	S3 specifications on LCS	S3 ?			
?	Other R1 specifications ?	R1 ?			
?	Other R3 specifications?	R3			LCS support in Iur and Iub?
?	CN specifications on LCS?	N1,N2?			
?	T specifications on LCS?	T2 ?			

3.3 LCS - Time plan

The time plan below is for illustration only at this stage. The format of the table is for further study and should be in line with the format of the meeting schedule maintained by the MCC.

RAN WG2 plans to decide on the positioning method(s) to be supported in release 99 at its meeting #7, 20-24th of September 1999.

Main milestones to develop LCS in UMTS:

− Stage 1 on LCS for GSM and UMTS (22.071) approved in December 1999

− Stage 2 on LCS for UMTS approved in March 2000December 1999

− Detailed UTRAN specifications to support the selected positioning method(s) approved in December 1999

- Full Stage 3 on LCS for UMTS (mainly CRs to existing specifications) to be developed during 2000, approved by December 2000

This time plan is a project plan, including the completion date of all the deliverables.

Calender week (week 50= 13.12. to 19.12.99) (week 1= 3.1. to 9.1.00)																		
Document	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12

22.071 Stage1		S1		P(?)							S1					S2			
23.171 System Stage2		S2		P						S2 lcs? ahoc	T2			S3	R2 N1	S2 lcs? ahoc	toP?		N2
25.305 UTRAN Stage 2	lcs ahoc	R2	R3?	P				lcs? ahoc	R2 R1 R4	R3	T2			lcs? ahoc	R1 R2 R3 R4	S2	toP?		
?																			
?																			
?																			

An underlined entry in the table indicates that the listed document is planned for completion in that meeting.

Several WGs are listed per specification, since these WGs should review the specifications on LCS for release 99..

~~There may be several WGs involved in creating the Stage 2 specifications on LCS in release 99.~~

For the involved groups the following meetings have been scheduled so far:

Calender week (week 1= 3.1. to 9.1.00)

Week/ Group	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Plenary meetings				P													P		
T1P1.5																			
S1		S1									S1								
S2		S2								S2						S2			
S3			S3						S3					S3					
S5			S5						S5										
R1		R1							R1						R1				
R2	lcs	R2							R2						R2				
R3			R3					ah		R3					R3				
R4			R4						R4						R4				
T2											T2								
N1		N1						N1							N1				
N2									N2				B						N2

Note: LCS ~~Possible~~ adhoc meetings planned by these groups are ~~to be~~not indicated.

3.4 CBS - Work identified to fulfill the requirements for R99

The *Cell Broadcast* Service (CBS) was defined as a UMTS Phase 1 requirement to guarantee the continuity of the corresponding GSM services. It shall be provided seamlessly (as far as the user or the users terminal equipment is concerned) across the UMTS and GSM network.

3.4.1 Work to be done in TSG SA

3.4.1.1 Work to be done by WG S1

To transfer the GSM Specification 02.03 on teleservices containing the CBS stage 1 description to a 3GPP TS 22.103. As a new radio interface is used possible adaptations may be needed. For this case S1 has to identify those new service requirements and to modify the stage 1 description in TS 22.103.

To define when CBS monitoring is mandatory for UEs that declare support of CBS (CBS being optional in the UE).

This task has to be peformed together with R2 and S2.

3.4.1.2 Work to be done by WG S2

The working assumption has been taken to incorporate the CBS into the core network. ~~This working assumption has to stabilise and other architecture issues has to be solved in order to reach an agreed architecture for CBS release 99.~~ The according CR to the 23.121 has been approved during the SA2#10. Those architecture requirements have to be incorporate into the 23.002 network architecture. Also changes in the 23.110 are needed to support the modeling of the cell broadcast bearer.

[To be agreed in S2]

3.4.1.3 Work to be done by WG S3

None identified.

3.4.1.4 Work to be done by WG S4

None identified.

3.4.1.5 Work to be done by WG S5

Proposed new text:

"Basic network management of CBS functions, e.g. inclusion of CBS NEs in the information model for support of Fault Management." ~~None identified.~~

3.4.2 Work to be done in TSG RAN

3.4.2.1 Work to be done by WG R1

None identified.

3.4.2.2 Work to be done by WG R2

RNC/UE protocols

To specify the layer 2 of the air interface and to identify the needed changes for CBS in the area of radio resource control - RRC - and radio link control - RLC. The Broadcast/Multicast control has to be specified. This new protocol is called BMC Protocol (Broadcast/Multicast Control Protocol). In release 99 it will support only CBS.

The UTRAN stage 2 for CBS will also cover future broadcast/multicast services and shall be completed also by Dec 99 regarding the CBS part.

Dependency with other TSG:
There is one part where R2 has a dependency with S1, which is the specification on when CBS monitoring is mandatory for UEs that declare support of CBS (CBS being optional in the UE).

~~[Comment Denis Fauconnier, Chairman R2:]~~
~~"The progress is good in R2, and we intend to have it submitted for approval in Dec99."~~

3.4.2.3 Work to be done by WG R3

It has been agreed between RAN, SA and N that R3 should specify the protocol between the CBC and the RNC by using transport resources of the Iu interface.

Therefore R3 has ~~T~~to define the IP based protocol between Cell Broadcast Center and the RNC based on the

requirements defined by T2. ~~Consider S~~support of the N groups <u>has to be considered</u> if special requirements are placed on the routing node, e.g. SGSN.

To consider the influence on the Iu protocol ~~and the SGSN IP routing~~.

~~[Comment from Per Willars:] There is a general architectural issue to sort out. In principle, UTRAN offers its services to the CN via the Iu interface. This should, in principle, include also the UTRAN support for the SMS CB service. Since the RNC terminates the protocol requesting SMS CB services from the CBC, this protocol should be part of the Iu protocols, and thus be specified by R3. It should be further discussed if the proposed approach for the SMS CB is the way to go.[To be agreed in RAN3]~~

3.4.2.4 Work to be done by WG R4

None identified.

3.4.3 Work to be done in TSG CN

3.4.3.1 Work to be done by WG N1

None identified.

3.4.3.2 Work to be done by WG N2

To consider routing functionality of the routing node, e.g. the SGSN according to the requirements of RAN3/SA2.

3.4.3.3 Work to be done by WG N3

None identified.

3.4.3.4 Work to be done by WG N-SS

None identified.

3.4.4 Work to be done by TSG T

3.4.4.1 Work to be done by WG T1

None identified

3.4.4.2 Work to be done by WG T2

To transfer the GSM Specification 03.41 to a 3GPP TS 23.041 version 3.0.0.

To define the application level protocol between CBC and UE (message id, serial number etc. as per 03.41).

To identify requirements for CBC/RNC protocol (as per 03.41 requirements for BSC/CBC interface, outlining functions like write/replace),

Confirmation that technical solutions proposed in other groups can meet S1's requirements.

3.4.4.3 Work to be done by WG T3

None identified

3.5 CBS - List of R99 deliverables on CBS in UMTS

List of deliverables					
Del #	**Title**	**Working Group**	**Editor**	**Completion date**	**Comment**
TS 22.103 Stage 1	Teleservices supported by a GSM Public Land Mobile Network (PLMN)	S1	???	12/99	Release 99 version, UMTS specific requirements to be added. ~~Approval of Changes planed for October SA Meeting.~~
TS 23.121	Architectural Requirements for Release 1999	S2	Liz Daniel, Lucent	12/99	As RAN3 is starting the work for Release 99 the CBS Architecture should be introduced in 23.121.
TR 23.920	Evolution of the GSM platform towards UMTS	S2	Liz Daniel, Lucent	12/99	Containing the CBS Architecture
TS 25~~23~~.301	Radio Interface Protocol Architecture	R2		12/99	~~Changes already performed~~CR 028
~~TS 23.303~~	~~UE functions and inter-layer procedures in connected mode~~	~~R2~~		~~12/99~~	~~Changes needed!~~
TS 25~~23~~.304	UE procedures in Idle Mode	R2		12/99	~~Changes needed!~~CR 003
TS 23~~25~~.321	Description of the MAC protocol	R2		12/99	~~Work has started but additional changes are needed!~~CR 028
TS 25~~23~~.322	Description of the RLC protocol	R2		12/99	~~Minor changes needed!~~CR006
TS 25~~23~~.324	Broadcast/Multicast Control	R2	Peter Krischan, D2 Mannesmann	12/99	~~New Specification, to be done!~~Ready for approval for RAN#6
TS 23~~25~~.331	RRC protocol	R2		12/99	~~Changes needed!~~CR 042
TS 23.041	Technical realization of Short Message Service Cell Broadcast (SMSCB)	T2		12/99	~~Has to be moved from GSM 03.41 to 3GPP and to adapted to UMTS.~~CR001
TR25.925	Report on Broadcast/Multicast services	R2	Peter Krischan, D2 Mannesmann	12/99	~~Approval unclear~~Ready for approval for RAN#6
TS XX.YYY	Protocol Stack for interconnecting Cell Broadcast Center (CBC) and Radio Network Controler (RNC)	RAN 3		03/00	Spec has to be created!
TS 25.401	UTRAN Overall Description	RAN 3		03/00	Has to be checked by RAN3 if changes are needed!

TS 25.410	UTRAN Iu Interface: General Aspects and Principles	RAN 3		03/00	Has to be checked by RAN3 if changes are needed!
TS 25.414	UTRAN Iu interface data transport & transport signalling	RAN 3		03/00	Has to be checked by RAN3 if changes are needed!

3.6 CBS - Time plan

The time plan below is for illustration only at this stage. The format of the table is for further study and should be in line with the format of the meeting schedule maintained by the MCC.

(Proposed) Main milestones to develop LCSCBS in UMTS:

– Stage 1 on CBS as part of the teleservice specification for UMTS approved in December 1999

– Detailed UTRAN specifications to support CBS approved in December 1999

– Detailed Core Network specification to support CBS approved in ?

This time plan is a project plan, including the completion date of all the deliverables.

Document	Calender week (week 50= 13.12. to 19.12.99)																	
	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
22.103 Stage1	S1																	
23.1219 20	S2																	
235.301	R2																	
253.303	R2																	
235.304	R2																	
253.321	R2																	
253.322	R2																	
253.324	R2																	
253.331	R2																	
23.041																		
25.414		R3																R3
yy.xxx		R3																R3
25.925	R2																	

An underlined entry in the table indicates that the listed document is planned for completion in that meeting.

For the involved groups the following meetings have been scheduled so far:

Week/ Group	Calender week (week 50= 13.12. to 19.12.99)															
	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11
T1P1.5																
S1	S1															
S2	S2								S2							
S3		S3														
S5			S5													
R1	R1															

R2	R2												
R3		R3											
R4													
T2													
N1													
N2													

<u>Note</u>: Possible adhocs planned by these groups are not indicated

4 Release 2000

4.1 LCS - Work identified to fullfill the requirements for R00

4.1.1 Work to be done by TSG SA

4.1.1.1 Work to be done by WG S1

To be defined by SA1.

[The stage 1 service description of location services in UMTS has to be elaborated based on input from the report 25.293, GSM 02.71 and the LCS requirements of UMTS in 22.105, 23.110, 23.121 and 23.920. A related specification is also GSM 03.32, which specifies the Universal Geographical Area Description.

UMTS is required to provide enhanced location services, both regarding accuracy and regarding service capabilities. ARIB has studied location services for the 3rd generation system and the outcome of that work is available in the study report ARIB/AIF-WG/SWG2/ST9 "Third generation (3G) mobile communication system; Technical study report on the location services and technologies". The Services Working Group of the North American Interest Group of the GSM MoU Association is elaborating on selected location based services and is producing a service requirements document (TSG S1#4 (99)423).

It is seen important to enable service continuity going from GSM to UMTS. It is preferable that services and applications developed based on GSM LCS features can be used also in UMTS.]

4.1.1.2 WG SA2

The following work is foreseen in SA to generate Release 2000 specifications on location services in UMTS:

[Stage 2 on LCS in UMTS, release 2000.]

4.1.1.3 WG SA3

4.1.1.4 WG SA5

[To be agreed in SA5]

Network management and operational aspects of location services.

- network management of LCS functions, e.g. idle period downlink and network assisted GPS

- O&M of location services network elements

4.2 LCS - List of R00 deliverables on LCS in UMTS

LCS support is to be included in the specifications listed below.

List of deliberables					
Del #	Title	**Working Group**	**Editor**	**Completion date**	**Comment**
TR 30.806	Project plan on Location and cell Broadcast Services	S2	Jan Kåll, Nokia		
22.xxx Stage 1	Location Services (LCS); Service description, Stage 1	S1	Randolph Wohlert, Pacific Bell Wireless		
23.xxx Stage 2	Location Services (LCS); Functional description, Stage 2	S2	Jan Kåll, Nokia		
25.305	Stage 2 Functional Specification of Location Services in UTRAN	R2	David Steer, Nortel Networks		
tbd		S3			
tbd		S5			
25.214	FDD; Physical layer procedures	R1			
25.215	Physical layer; measurements (FDD)	R1			
25.224	TDD; Physical layer procedures	R1			
25.225	Physical layer; measurements (TDD)	R1			
? 25.231	Physical layer; measurements	R1			Shall this specification inlcude LCS measurements?
25.301	Radio Interface Protocol Architecture	R2			
25.302	Services provided by the physical layer	R2			
23.303	UE functions and inter-layer procedures in connected mode	R2			
23.304	UE procedures in Idle Mode	R2			
23.331	RRC protocol	R2			
? 25.922	Radio resource management strategies	R2			will LCS support be visible in this specification?
? 23.049	Protocol Stack for interconnecting Cell Broadcast Center (CBC) and Radio Network Controler (RNC)	Responsibility unclear!			Shall this specification also include support for LCS signaling GMLC- RNC?

? 25.401	UTRAN overall description	R3			Shall this specification include an LCS overall description?
25.410	UTRAN Iu interface: general aspects and principles	R3			
25.413	UTRAN Iu interface RANAP signalling	R3			Support for location request and response included.
25.420	UTRAN Iur inter-face: general aspects and principles	R3			
25.423	UTRAN Iur interface RNSAP signalling	R3			
? 25.425	UTRAN Iur interface user plane protocols for CCH data streams	R3			will LCS support be visible in this specification?
25.430	UTRAN Iub inter-face: general aspects and principles	R3			
25.433	UTRAN Iub inter-face NBAP signalling	R3			
? 25.931	UTRAN functions, examples on signalling procedures	R3			Shall this specification include examples on LCS signalling procedures?
tbd		T2			
tbd		N1			
tbd		N2			

4.3 LCS - Time plan

Time plan is for illustration only at this stage. Format is for further study and should be in line with the format of the meeting schedule maintained by the MCC.

This time plan is a project plan, including the completion date of all the deliverables.

	Calender week 99 (week 50= 13.12. to 19.12.99)																		
Document	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14

5   Change history

	Date			**New version**	**Subject/Comments**
	July 1999			0.0.0	First draft, Tdoc SA2-99613
	July 1999			0.0.1	According to agreed document structure
	August 1999			0.0.2	Added Stage 1 and 2 for R99 and information on work in RAN WGs, Rephrased S1, added N1and N-SS.
	August 1999			0.1.0	Changed text on positioning method(s) in release 99
	Sept. 99			0.1.2	Outcome of joint meeting S2/R2 27.9.1999
	Sept. 99			0.1.3	Comments received before 15.9.99
	Sept. 99			0.1.4	Cell Broadcasting added, Martin Guntermann Added list of specifications for LCS in rel ease 99 and release 2000
	Sept. 99			0.1.5	More detailed task description added for N1 and N2
	Sept. 99			1.0.0	For information to SA
	Oct. 99			1.0.1	RAN plenary on LCS support in Iub and Iur. Updated references to UTRAN Stage 2
	Dec. 99			1.1.0	Update CBS part: Status RAN2, RAN3
	Dec. 99			1.2.0	Updated LCS part for R3, CBS part: status of R2, R3 after S2#10, meeting calender updated
	Dec.99			1.2.1	Added text on LCS work in R1 and R1 LCS specifications

*Table heading: **Change history***

Annex A:
Scope of the UMTS Location and Cell Broadcasting Services inter group co-ordination ad hoc group

The UMTS LCS and CBS inter group co-ordination ad hoc group shall co-ordinate the work on location services in UMTS and ensure that all 3GPP groups relevant for location services get involved in a timely manner. The ongoing work in T1P1.5 on GSM LCS Phase II shall be taken in account as well.

The UMTS LCS and CBS inter group co-ordination ad hoc group shall also co-ordinate the work on cell broadcasting services in UMTS and ensure that all 3GPP groups relevant for cell broadcasting services get involved in a timely manner.

The LCS and CBS ad hoc group shall evaluate the UMTS location services and cell broadcast services in order to identify what issues are to be standardized and what are the appropriate Work Groups for this and set up a time plan for the work.

The *Location services* feature in UMTS is mainly a release 2000 issue, but the LCS and CBS ad hoc shall also seek to identify what LCS system functions should be included in Release 99 and the affected WGs and specifications.

The *Cell Broadcast* Service (CBS) is a release 99 requirement and shall be provided seamlessly (as far as the user or the users terminal equipment is concerned) across the UMTS and GSM network in order to guarantee the continuity of the corresponding GSM services in UMTS.

LCS and CBS ad hoc reports to TSG SA WG2.

Annex B:
Contact persons

Group	Chair person/ Contact person*	Email
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