Source:	SA1
Title:	CRs to 22.071 on Removal of misleading and obsolete text (ReI-5, ReI-6)
Document for:	Approval
Agenda Item:	7.1.3

Meet	Doc. No.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	Doc. SA1
SP-22	SP-030690	22.071	061	-	Rel-5	F	Removal of misleading and obsolete text	5.2.0	5.3.0	S1-031327
SP-22	SP-030690	22.071	062	-	Rel-6	F	Removal of misleading and obsolete text	6.5.0	6.6.0	S1-031328

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CHANGE REQUEST									
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Proposed change affects: UICC apps # ME Radio Access Network Core Network X									
Title: %	Removal	of misleading and	d obsolete tex	xt in LCS s	tage 1				
Source: %	SA1 (Sier	mens)							
Work item code: %	TEI5				Date: #	27/10/2003			
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Clauses affected:	೫ <mark>1,2.</mark>	1, 6.7							
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Other comments:

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<< First changed section >>

1 Scope

This document provides the Stage One description of Location Services (LCS). A Stage One description provides an overall service description, primarily from the service subscriber's and user's points of view, but not dealing with the details of the Man Machine Interface (MMI). This TS includes information applicable to network operators, service providers and terminal, base station system, switch, and data base manufacturers.

NOTE: Location Services may be considered as a network provided enabling technology consisting of standardized service capabilities which enable the provision of location based applications. These applications may be service provider specific. The description of the numerous and varied possible location applications which are enabled by this technology are outside the scope of this specification. However, clarifying examples of how the functionality being specified may be used to provide specific location services is included in various sections of the specification.

This document provides core requirements to an extent sufficient to derive a complete definition of location services at the service level. However, the present document also provides additional requirements which may suggest in a non-normative manner certain ways the system may be implemented to support location services.

LCS can be offered without subscription to basic telecommunication services. LCS is available to the following categories of LCS clients:

- Value Added Services LCS Clients use LCS to support various value added services. These clients can include UE subscribers as well as non-subscribers to other services.
- PLMN Operator LCS Clients use LCS to enhance or support certain O&M related tasks, supplementary services, IN related services and bearer services and teleservices.
- Emergency Services LCS Clients use LCS to enhance support for emergency calls from subscribers.
- Lawful Intercept LCS Clients use LCS to support various legally required or sanctioned services.

LCS is applicable to any target UE whether or not the UE supports LCS, but with restrictions on choice of positioning method or notification of a location request to the UE user when LCS or individual positioning methods, respectively, are not supported by the UE.

LCS is being developed in phases with enhancements added in yearly-3GPP releases.:

- 1 GSM Release 98: This is the initial default phase of LCS. It provides a generic flexible architecture capable of supporting all positioning methods. Specific support is provided for Time Of Arrival (TOA), Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) based positioning methods. Support is provided for emergency services, value added services and PLMN operator services.
- 2 GSM Release 99: This provides the same capabilities as GSM Release 98, since GSM Release 98 specifications were copied as "mirror" specifications in GSM Release 99.
- 3 3GPP Release 99: LCS is supported in the circuit switched domain of the 3GPP core network (GMLC connected to MSC). UTRAN R99 specifications support cell coverage (ie cell identity) based LCS. (The radio interface RRC specification also support IPDL OTDOA and network assisted GPS (assistance data broadcasting), but the UTRAN internal interfaces do not yet support these two methods in R99.)
- 4 3GPP Release 4 (including both UTRAN and GERAN): LCS shall be supported in the circuit switched domain and in the packet switched domain including GPRS. LCS shall be supported in GERAN and in UTRAN FDD and UTRAN TDD. The positioning methods in UTRAN will be at least the 3 methods identified earlier: cell coverage based, IPDL-OTDOA and assisted GPS. LCS support is to be included in the Open Service Architecture (OSA) including enhancements for the support of value added services, and support for the velocity parameter in the position request /response. The objective is to have common service descriptions for all Access Networks in this stage 1 specification. Possible deviations shall be noted in the text.
- 5 Future releases: For further study.

<< next changed section >>

2.1 Normative references

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
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<< next changed section >>

6.7 LCS Open Service Architecture and Application Programming Interface

<u>Note:</u> LCS <u>shall supportinformation may be accessible through</u> the Open Service Architecture (OSA) standardized Application Programming Interface (API). The OSA and Virtual Home Environment (VHE) service aspects of LCS are described in 22.1274. [6]

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