TSG-SA #26   **SP-040907**
Athens, Greece 13th → 15th December, 2004

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **22.071** CR **072** | ⌘**rev** **1** | ⌘ | Current version: | **7.0.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: | UICC apps⌘ ☐   ME **X** Radio Access Network **X** Core Network ☐

Title:	⌘	Velocity Service Description
Source:	⌘	TSG SA
Work item code:⌘	LCS-R7	*Date:* ⌘ 13/12/2004

Category:	⌘ **C**	*Release:* ⌘	Rel-7

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
Ph2   (GSM Phase 2)
R96   (Release 1996)
R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
Rel-4   (Release 4)
Rel-5   (Release 5)
Rel-6   (Release 6)
Rel-7   (Release 7)

Reason for change:	⌘	Many location-based services such as turn-by-turn directions rely upon knowing the UEís velocity (speed and heading). Velocity is already defined in TS 23.032, but is not included in any messaging definitions.
Summary of change:	⌘	1) Ensure that velocity can be available from the LCS Server to the LCS Client 2) Examples in Annex B where velocity is useful
Consequences if not approved:	⌘	LCS clients will not be able to use velocity-dependent services

Clauses affected:	⌘	4.2.2, Annex B5.1

	Y	N		
Other specs	⌘	**X**		Other core specifications	⌘ TS 44.031, TS 25.331, TS23.271, TS 25.305, TS 48.008, TS 48.071, TS 49.031
affected:			**X**	Test specifications
			X	O&M Specifications

Other comments:	⌘	Related discussion paper: S1-040863

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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.

4.2.2   Velocity

Velocity is the combination of ~~Ss~~peed and ~~Heading (bearing~~direction~~direction)~~ of a Target UE. ~~The LCS Server may provide the Velocity of an UE.~~It shall be possible for a UE to provide its velocity to the ~~location~~LCS server.

Note: This requirement only applies to satellite based positioning systems.

For Value Added Services and PLMN Operator Services, the following is applicable:

Provision of the velocity of a target UE is application driven. Location Services may allow an LCS Client to request or negotiate the provision of velocity.

For Emergency Services there is no requirement to provide velocity.

B5.1   Navigation

The purpose of the navigation application is to guide the handset user to his/her destination. The destination can be input to the terminal, which gives guidance how to reach the destination. The guidance information can be e.g. plain text, symbols with text information (e.g. turn + distance) or symbols on the map display. If the handsetís velocity is available in addition to its position, real-time, adaptable turn-by-turn directions can be provided. The instructions may also be given verbally to the users by using a voice call.

Note: this may involve a service provider giving verbal directions to a lost motorist, or providing periodic short text messages (possibly using SMS), in addition to, or as an alternative to the provision of a graphic map.

This can be accomplished through carrying a mobile phone that has location technology capabilities down to a few feet. Less granularity impedes the applicability of this functionality.

This service can either be menu driven from a handset using SIM Application Toolkit or a WAP based terminal with a map application running ñ similar to a GPS system. A central server may handle all mapping of locations, and may save specific locations (i.e., favorite fishing holes).