

25 - 28 February 2002

Bristol, UK

TSG-SA WG 1 (Services) LCS  
Saalfelden, Austria, February 2002

S1-020422

CR-Form-v4

**CHANGE REQUEST**⌘ **TS22.071 CR** ⌘ ev **-** ⌘ Current version: **5.1.0** ⌘For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.Proposed change affects: ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network 

|                        |   |                 |   |
|------------------------|---|-----------------|---|
| <b>Title:</b>          | ⌘ <b>CR to TS22.071 for introduction of a Codeword setting</b>                        |                 |   |
| <b>Source:</b>         | ⌘ Lucent Technologies, NTT DoCoMo   |                 |   |
| <b>Work item code:</b> | ⌘ LCS   | <b>Date:</b>    | ⌘ Feb 2002                                |
| <b>Category:</b>       | ⌘ <b>B</b>  | <b>Release:</b> | ⌘ <b>REL-5</b>                            |
|                        | Use <u>one</u> of the following categories:   |                 | Use <u>one</u> of the following releases: |
|                        | <b>F</b> (correction)   | <b>2</b>        | (GSM Phase 2)                             |
|                        | <b>A</b> (corresponds to a correction in an earlier release)                          | <b>R96</b>      | (Release 1996)                            |
|                        | <b>B</b> (addition of feature),   | <b>R97</b>      | (Release 1997)                            |
|                        | <b>C</b> (functional modification of feature)   | <b>R98</b>      | (Release 1998)                            |
|                        | <b>D</b> (editorial modification)   | <b>R99</b>      | (Release 1999)                            |
|                        | Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u> . | <b>REL-4</b>    | (Release 4)                               |
|                        |   | <b>REL-5</b>    | (Release 5)                               |

|                                      |  |
|--------------------------------------|--|
| <b>Reason for change:</b>            | ⌘ These changes make it possible to protect the privacy of a Target UE user against monitoring of the Target UE's location by third parties. |
| <b>Summary of change:</b>            | ⌘ Add the definition "Codeword" to chapter 3 and make a new section in the chapter 6 in order to introduce the new Codeword concept          |
| <b>Consequences if not approved:</b> | ⌘ There is no means to protect the Target UE user against unwelcome location requests from third parties.                                    |

|                              |   |
|------------------------------|---|
| <b>Clauses affected:</b>     | ⌘ 3.2 6.4.1 6.4.2   |
| <b>Other specs affected:</b> | ⌘ <input checked="" type="checkbox"/> Other core specifications ⌘ 23.071<br><input type="checkbox"/> Test specifications<br><input type="checkbox"/> O&M Specifications |
| <b>Other comments:</b>       | ⌘ This Codeword concept had already agreed at the SA1 LCS SWG in Phoenix.   |

**How to create CRs using this form:**Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.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.

## 3.2 Definitions

**Codeword:** access code, which is used by a Requestor or LCS Client in order to gain acceptance of a location request for a Target UE. The codeword is one part of the privacy information to be registered by a Target UE user.

< Skip to the next change >

## 6.4 Target UE Subscription

### 6.4.1 Privacy Subscription Options

It shall be possible for a Target UE Subscriber to subscribe to various types of privacy classes. The default treatment in the absence of the information to the contrary in the Target UE Subscription Profile shall be to assume that access is restricted to all LCS Clients (unless using privacy overriding, or otherwise overridden by local regulatory requirements).

Privacy Attributes consist of:

Codeword: determines appropriate which Requestors who are accepted by a Target UE user;

Privacy Exception List: determines which LCS Clients and classes of LCS Clients may position a Target UE;

Privacy Override Indicator: determines applicability of the Privacy Exception List.

### 6.4.2 Codeword

It shall be possible for a Requestor to request the location request with the Codeword associated with the Target UE number. The codeword should be registered in a PLMN (or in a Target UE) by the Target UE subscriber in advance if the Target wishes the PLMN to perform the checking. The PLMN (or the Target UE) shall should compare the codeword sent from the Requestor with the ~~codeword~~ previously registered codeword. The location request originated by the Requestor ~~should~~ shall only be accepted only when if the comparison is successful. The other privacy settings should also be checked even if codeword checking is performed and vice versa.

In the case that the codeword is checked by the PLMN, the codeword would not be sent to the Target UE. In the other case that the codeword is checked by the Target UE, the Target UE subscriber need might not register the codeword in the PLMN.

The Target UE Subscriber may register multiple codewords in the PLMN for multiple Requestors. Once the codeword has been set and properly distributed, the Target UE user would be protected against location requests from third parties, which do not know the appropriate codeword.

Alternatively, the codeword supplied by the client with the request may be forwarded to the Target UE for verification and acceptance.

The codeword is applicable to the value added services only.

### 6.4.23 Privacy Exception List