Technical Specification Group Services and System Aspects
Meeting #18, New Orleans, USA, 9-12 December 2002

TSGS#17(02)0657

Source: **SA1**

Title: **Release 6 CRs to 22.071 on LCS**

Document for: **Approval**

Agenda Item: **7.1.3**

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-020657	22.071	047		Rel-6	C	CR to LCS stage 1 'Service Type'	6.1.0	6.2.0	S1-022013
SP-020657	22.071	048		Rel-6	C	Handling of privacy checks for Network Induced Location Requests	6.1.0	6.2.0	S1-022299

TSG-SA1 SWG #18 **S1-022013**
Beijing, China, 14 -18 October 2002 **Agenda Item: 6.3**

CR-Form-v7

CHANGE REQUEST

⌘ **22.071** **CR** **047** ⌘ **rev** **-** ⌘ Current version: **6.1.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	CR to LCS stage 1 'Service Type'
Source:	⌘	SA1 (Nokia)
Work item code:	⌘	LCS
Date:	⌘	11/10/2002
Category:	⌘	**C**
Release:	⌘	Rel-6

Use one 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 one of the following releases:

2	*(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)*

Reason for change:	⌘	The described LCS service types are currently lacking consumer oriented categories and service types.
Summary of change:	⌘	New service types were added to table 4.2: traffic and public transportation information, weather, gaming, find your friend, dating, chatting, route finding, asset and service finding, where-am-I
Consequences if not approved:	⌘	The list of LCS service types will remain unbalanced and will not reflect the current types of LCS applications on the market.

Clauses affected:	⌘	4.8.1.1			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	23.271, 29.002
		X /	Other core specifications		
		/ X	Test specifications		
		/ X	O&M Specifications		
Other comments:	⌘	It should be noted that Presence may also use the LCS service types but it is not regarded as a service type itself.			

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.

**** MODIFIED SECTION ****

4.8.1.1 Standardized Service Types

Annex C lists the attributes of specific location based services as determined by the GSM Alliance Services Working Group. The standardized Service Types to be used in privacy checking are listed in table 4.2 and are based on the services listed in Annex C. It is noted that not all services listed in Annex C need belong to a standardized service type.

It should be noted that only the names and identities (number) of the Service Types are standardized.

It shall be possible for the network operator/service provider to define additional, non-standardised service types that need not be globally unique.

Table 4.2, Standardized Service Types

Location based services categories	**Standardized Service Types**
Public Safety Services	Emergency Services
	Emergency Alert Services
Location Sensitive Charging	
Tracking Services	Person Tracking
	Fleet Management.
	Asset Management
Traffic Monitoring	Traffic Congestion Reporting
Enhanced Call Routing	Roadside Assistance
	Routing to Nearest Commercial Enterprise
Location Based Information Services	~~Navigation~~ Traffic and public transportation information
	City Sightseeing
	Localized Advertising
	Mobile Yellow Pages
	Weather
	Asset and Service Finding
Entertainment and Community Services	Gaming
	Find Your Friend
	Dating
	Chatting
	Route Finding
	Where-am-I
Service Provider Specific Services	

Note: It should not be possible for the target UE subscriber to block the emergency services Service Type, so maybe this Service Type is not needed, this is FFS.

3GPP TSG-SA#18 ***S1-022299***
Busan, S. Korea, 11-15 November 2002

CHANGE REQUEST

⌘ **22.071** **CR** **048** ⌘ **rev** **-** ⌘ Current version: **6.1.0** ⌘

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

Proposed change affects: UICC apps⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Handling of privacy checks for Network Induced Location Requests (NI-LR).
Source:	⌘	SA1 (LCS SWG)
Work item code:	⌘	LCS2 ***Date:*** ⌘ 13/11/2002
Category:	⌘	**C** ***Release:*** ⌘ REL-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
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R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	Cases when an LCS privacy check is not necessary
Summary of change:	⌘	Four cases when privacy check is not required.
Consequences if not approved:	⌘	Unnecessary privacy checks are done, which is wasteful.

Clauses affected:	⌘	4.8

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

4.8 Privacy

Specific local, national, and regional privacy regulations must be complied with, and multiple layers of permissions may be required.

Location information must always be available to the network service provider.

Means shall be provided for the UE subscriber to control privacy for value added services.

The user shall be able to change the setting of the Privacy exception list at any time.

Unless required by local regulatory requirements, or overridden by the target UE User, the target UE may be positioned only if allowed in the UE subscription profile. In general, for valued added location services, the target UE being positioned should be afforded the maximum possible privacy, and should not be positioned unless the positioning attempt is explicitly authorized. In the absence of specific permission to position the target UE, the target UE should not be positioned.

It may also be possible for a target UE to authorize positioning attempts after the target UE is notified of a positioning request and the target UE grants permission for positioning This notification condition (notification with privacy verification) shall be specified in the Target UE Subscription Profile. (See the subsequent "target subscriber notification" section of this document for charging and billing aspects.)

The privacy of an inanimate asset for an embedded target UE may be completely defined by the UE subscriber.

Additionally, specific privacy exceptions may exist for compliance with mandated location based services (such as for emergency services or lawful intercept) which are required by national or local regulatory requirements.

For Value Added Services, the following is applicable:

The Target UE Subscriber shall be able to restrict access to the Location Information (permanently or on a per attempt basis). The LCS Client access shall be restricted unless otherwise stated in the Target UE Subscription Profile. The home network shall have the capability of defining the default circumstances in which the Target UE's Location Information is allowed to be provided - as required by various administrations and/or network requirements.

The privacy check shall be performed in the Home Environment of the target UE subscriber. This makes it possible for operators to ensure the privacy of their own subscribers i.e. the privacy settings that are used for privacy checks are always up to date and as specified by the Home Environment of the target UE subscriber. It shall be possible for privacy check to take into account Home Environment specific information such as time of day, subscriber location. It shall be possible to ensure that privacy checks are performed according to the latest information as available in the Home Environment.

It shall be possible for location services to support conditional positioning. Under these conditions, an application that is granted conditional positioning authorization must notify and obtain positioning authorization from the user of the target UE prior to performing the positioning process. Thus the user of the target UE shall be able to accept or reject the positioning attempt.

The default treatment, which is applicable in the absence of a response from the Target UE, shall be specified in the Target UE Subscription Profile. Thus for some location services the default treatment may be to accept the positioning request, whereas for other location services the default treatment may be to reject the positioning attempt.

However, considering that in general, users shall be afforded the maximum possible privacy, and shall not be positioned unless the target subscriber authorizes the requesting location application to perform positioning, the default condition shall normally be to deny the positioning attempt.

For PLMN operator services, the target UE subscriber may be able to restrict access to location information used to enhance or support particular types of service. The LCS client access shall be restricted unless stated otherwise in the Target UE subscription profile. The target UE user shall not be notified of any authorized location attempt.

For Emergency Services (where required by local regulatory requirements) Target UEs making an emergency call may be positioned regardless of the privacy attribute value of the subscriber associated with the Target UE (or ME) making the call.

For Lawful Interception Services (where required by local regulatory requirements), target UEs may be positioned under all circumstances required by local regulatory requirements. The target UE user shall not be notified of any location attempt.

All location requests (LRs) shall be done with a privacy check except for the following:

- LRs relating to lawful interception
- LRs related to emergency calls
- LRs from the serving network related to anonymous tracking for statistical and O&M purposes
- LRs from the home network as requested by the home network operator for its own internal purposes. The home network operator should not use the UE location information, which was obtained from the visited network without privacy checks, for value added services or to forward such location information to any third party (except for the cases of lawful interception or emergency calls).