Technical Specification Group Services and System Aspects **TSGS#17(02)0652**
Meeting #18, New Orleans, USA, 9-12 December 2002

Source:	**SA1**
Title:	**Release 5 CR to 22.127 on Event notification mechanism to inform applications about new SCS**
Document for:	**Approval**
Agenda Item:	**7.1.3**

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-020652	22.127	058		Rel-5	F	Event notification mechanism to inform applications about new SCS	5.4.0	5.5.0	S1-022250

CR-Form-v7

CHANGE REQUEST

| ⌘ | **22.127** CR | **058** | ⌘ **rev** | **-** | ⌘ | Current version: | **5.4.0** | ⌘ |

*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 **X**

Title:	⌘	Introduction of event to inform applications about new SCSs.
Source:	⌘	SA1 (Ericsson)
Work item code: ⌘	OSA3	***Date:*** ⌘ 04/11/2002
Category: ⌘	**F**	***Release:*** ⌘ Rel-5

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: 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:	⌘	A discrepancy exists between the OSA stage 1 and stage 3 specifications in the sense that the Notification function is partly missing from the stage 1 (22.127).
Summary of change: ⌘		Introduction of a missing part of the Notification function.
Consequences if not approved:	⌘	Misalignment between OSA stage 1 and stage 3.

Clauses affected:	⌘	12.2

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

Other comments:	⌘	

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.

12   Event Notification Function

The Event Notification Function shall allow an application to specify the initial point of contact which it is interested in. The Event Notification Function provides the necessary mechanisms which enables an application to request the notification of subscriber or network related event(s). An application may in addition request the cancellation of subscriber or network related event notification.

For all subscriber related events the Event Notification Function shall support two ways for an application to subscribe to notifications: the application shall either specify the subscriber for which the Event Notification Function is valid or indicate that it is ready to receive user related notifications for any subscriber. The application may be responsible for the explicit provisioning of the subscriber related event notification or it may leave the provisioning of the notifications to the Home Environment operator and just indicates that it is ready to receive notifications. An application may use both mechanisms at the same time. Once an application has enabled the notification of event(s), the Event Notification Function shall report the event(s), including the identification of the user to which the event applies, until such time the application explicitly requests the termination of the event(s) notification.

When the event occurs, the application that requested the event is informed.. The notification of the event shall be accompanied by unambiguous information identifying the original request and event related data.. For example, in case of an application is interested in "message" the notification to the application shall indicate whether it is incoming or outgoing, in case of chargeable events, the application shall receive details as used at the network to create a Call Detail Record. In this case, processing in the network is not suspended after notification of the event to the application.

The Event Notification Function includes the availability of offering additional criteria to be specified by the application. The set of criteria is individual and may vary for the event requested. The detailed set of criteria available for each of the events below are described in [6].

12.1   Subscriber Related events:

- An initial call processing event occurs.

   when a call to or from a given user is created and this event is armed by an application, that application shall be notified.

- A message is sent or received.

   when a message to or from a given user is sent or received and this event is armed by an application, that application shall be notified.

- A chargeable event happens.

   when a chargeable event occurs for a given user and this event is armed by an application, that application shall be notified.

- The user´s status is changed.

   when a subscriber registers to a network or when a given user changes her status (e.g. from idle to busy) and this event is armed by an application, that application shall be notified. Registration in this sense is further detailed in the chapter on User Status Functions. Attach and detach applies for CS and PS.

- The user´s location is changed.

   when a given user changes her location (e.g. leaving a certain area which is "identifiable" by the network) and this event is armed by an application, that application shall be notified.

- The Terminal Capabilities are changed.

   when the capabilities of a terminal change (e.g. when a keyboard is attached) and this event is armed by an application, that application shall be notified.

Note: The ability to support this function is dependent on the ability of a terminal (through e.g. MExE or WAP) to notify changes in its capabilities. Therefore this function will *not* be able to supply event notifications for terminals not supporting notification of their terminal capabilities.

12.2 Network Related Events:

- A network fault management condition is met,

  when a fault management condition occurs at the underlying network (e.g. congestion of network components) and this event is armed by an application, that application shall be notified.

- A network service or network service capability registers,

  when a network service capability feature registers with the Framework all applications which have subscribed to this event and are currently authorised to use this service capability feature shall be notified.

- A network service or network service capability de-registers,

  when a network service capability feature de-registers with the Framework all applications which are currently authorised to use this service capability feature shall be notified.

12.3 Other Related Events:

- A change in presence related information.

  If any presence related information changes (such as one or more presence information attributes or a user's availability), and this event is armed by the application, that application shall be notified. Presence information may be associated with a user, device or service, or any abstract entity that has the ability to report presence information.