Source: **SA1 OSA ad hoc**

Title: **CR to 22.127 on Clarification to the requirements of the Event Notification Function**

Document for: **Approval**

Agenda Item: **7.1.3**

Meeting-1st-Level	Doc-1st-Level	Spec	CR	Rev	Phase	Cat	Subject	Version-Current	Version-New	Doc-2nd-Level
SP-11	SP-010164	22.127	008		Rel-4	C	Clarification to the requirements of the Event Notification Function	4.0.0	4.1.0	S1-010279

3GPP TSG SA1 – OSA ad-hoc　　　　　　　　　　　　　　　　　　　**S1O01025**
Tempe, Arizona, US
March 6-7, 2001

CR-Form-v3

CHANGE REQUEST

| ⌘ | **22.127** | CR | **008** | ⌘ | rev | **-** | ⌘ | Current version: | **4.0.0** | ⌘ |

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

Proposed change affects: ⌘　　(U)SIM ☐　ME/UE ☐　Radio Access Network ☐　Core Network **X**

Title:	⌘	Clarification to the requirements of the Event Notification Function
Source:	⌘	OSA ad hoc
Work item code: ⌘	OSA	**Date:** ⌘ 6ᵗʰ March 2001
Category:	⌘ **C**	**Release:** ⌘ REL-4

Use one of the following categories:	*Use one of the following releases:*
F *(essential correction)*	*2*　*(GSM Phase 2)*
A *(corresponds to a correction in an earlier release)*	*R96*　*(Release 1996)*
B *(Addition of feature),*	*R97*　*(Release 1997)*
C *(Functional modification of feature)*	*R98*　*(Release 1998)*
D *(Editorial modification)*	*R99*　*(Release 1999)*
Detailed explanations of the above categories can	*REL-4*　*(Release 4)*
be found in 3GPP TR 21.900.	*REL-5*　*(Release 5)*

Reason for change: ⌘		The current requirement of the Event Notification Function was not clearly understood by the group responsible for stage 2 and 3 of OSA. This CR provides an improved description of the requirements of the Event Notification Function.
Summary of change: ⌘		This change request proposes to : • Clarify the service capability feature event notification function • Clarify the need to accompany the notification with detailed information related to the event, • Clarify that applications must explicitly request the termination of event notifications once event notification is requested. • Move the service capability feature registration from subscriber to network event. • Clarify the successful registration of Service Capability Features
Consequences if not approved: ⌘		N/A not a category F CR.

Clauses affected:	⌘	11, 11.1, 11.2, 12.1.2
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

11 Event Notification Function

The Event Notification Function shall allow an application to specify the initial point of contact which it is interested in. ~~It~~ The Event Notification Function provides the necessary mechanisms which enables an application to request ~~a~~ the notification of ~~if a~~ subscriber or network related event(s) ~~occurs~~. An application may in addition request the cancellation of subscriber or network related event notification. For all subscriber related events the application shall always specify the subscriber for which the Event Notification Function is valid. Once an application has enabled the notification of event(s), the Event Notification Function shall report the event(s) until such time the application explicitly requests the termination of the event(s) notification.

When the event occurs, the ~~an~~ application that requested the event ~~will~~is ~~get~~ informed ~~on the event.~~. The notification of the event shall be accompanied by unambiguous information ~~identifying~~ ~~to identify~~ the original request and event related data.~~for interest and sufficient information relevant to the event. E.g.~~ 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 ~~CDR~~Call Detail Record. In this case, processing in the network is not suspended after notification of the event to the application.
~~The telecom processing is not suspended.~~
~~For all subscriber Related Events the application shall always specify the subscriber for which the Event Notification Function is valid.~~
~~Note: from the editors point of view, two options exists:~~
~~When an event occurs and the application gets informed, the request for notification is disarmed. In case the application is interested in further point of contacts, it has to request further notifications.~~
~~1. An application will stay informed as long as it withdraws its interest on getting notified. In this case an additional function (or sub-function) has to be created. The "disarm event function" shall allow an application to specify the event in which it is no longer interested. The event will get disarmed.~~

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 above are described in [6].

11.1 Subscriber Related events:

~~☐A new network service or network service capability registers,~~
> ~~when a new network service capability feature registers with the Registration Function and this event is armed by an application, that application shall be notified.~~

- A user becomes available.
  > when a subscriber registers to a network and this event is armed by an application, that application shall be notified.
- 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 given user changes her status (e.g. from idle to busy) and this event is armed by an application, that application shall be notified.

- 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 a given user changes her terminal capabilities (e.g. from non MExE to a MExE capable terminal) and this event is armed by an application, that application shall be notified.

11.2 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 new network service or network service capability registers.

  when a new network service capability feature successfully registers with the Registration Function and this event is armed by an application, that application shall be notified. Applications will get notified only once.

12.1.2   Service Registration feature

The Registration function enables the non-framework service capability features (i.e. service capability features that contain non-Framework functions) to register with the Framework. Registration must take place before authorised applications can find out from the Framework which non-framework service capability features are available. This means that the non-framework service capability features must be registered before they can be discovered and used by authorised applications. The service capability feature is finally registered if the registration process is successfully completed.

Note that only the non-framework service capability features have to be registered. The Framework service capability features (containing only Framework functions) are available by default since they provide basic mechanisms.