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Helsinki, Finland

3GPP SA3-LI #11

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CR-Form-v5.1

CHANGE REQUEST

⌘ **33.107 CR CRNum** ⌘ rev **-** ⌘ Current version: **5.2.1** ⌘

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

Title:	⌘ Essential clarification to the Timestamp IE		
Source:	⌘ SA WG3 - LI (Nokia)		
Work item code:	⌘ SEC-LI	Date:	⌘ 24 May 2002
Category:	⌘ F	Release:	⌘ REL-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (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 be found in 3GPP TR 21.900.		REL-4 (Release 4)
			REL-5 (Release 5)

Reason for change:	⌘ UMTS network elements are synchronized with an accuracy, which is of the order of a second (10^0 S). Therefore, a value of a timestamp in a GSN shall be taken relative to the local clock and not against the Atomic clock. Similar clarification already has been adopted by 33.108. This CR alignes 33.107 with 33.108.
Summary of change:	⌘ It is clarified that a value of a timestamp in a GSN shall be taken relative to the local clock.
Consequences if not approved:	⌘ Ambiguity at LEMF that might lead to a wrong interpretation of the actual timestamp value.

Clauses affected:	⌘ 7.3.2
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications ⌘ 33.108 <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

7.3.2 Structure of the events

There are seven different events in which the information is sent to the DF2 if this is required. Details are described in the following section. The events for interception are configurable (if they are sent to DF2) in the 3G GSN and can be suppressed in the DF2.

The following events are applicable to 3G SGSN:

- Mobile Station Attach;
- Mobile Station Detach;
- PDP context activation;
- Start of intercept with PDP context active;
- PDP context modification;
- PDP context deactivation;
- RA update;
- SMS.

NOTE: 3G GGSN interception is a national option. Location information may not be available in this case.

The following events are applicable to the 3G GGSN:

- PDP context activation;
- PDP context modification;
- PDP context deactivation;
- Start of interception with PDP context active.

A set of fields as shown below is used to generate the events. The events transmit the information from 3G GSN to DF2. This set of fields as shown below can be extended in the 3G GSN, if this is necessary as a national option. DF2 can extend this information if this is necessary as a national option e.g. a unique number for each surveillance warrant.

Table 2: Information Events for Packet Data Event Records

Observed MSISDN MSISDN of the target subscriber (monitored subscriber)
Observed IMSI IMSI of the target subscriber (monitored subscriber)
Observed IMEI IMEI of the target subscriber (monitored subscriber), it shall be checked for each activation over the radio interface.
Event type Description which type of event is delivered: MS attach, MS detach, PDP context activation, Start of intercept with PDP context active, PDP context deactivation, SMS, Cell and/or RA update,
Event date Date of the event generation in the 3G GSN
Event time Time of the event generation in the 3G GSN. <u>Timestamp shall be generated relative to GSN internal clock.</u>
PDP address The PDP address of the target subscriber. Note that this address might be dynamic.
Access Point Name The APN of the access point. (Typically the GGSN of the other party)
Location Information Location Information is the Service Area Identity (SAI), RAI and/or location area identity that is present at the GSN at the time of event record production.
PDP Type The used PDP type.
Correlation Number The correlation number is used to correlate CC and IRI.
SMS The SMS content with header which is sent with the SMS-service. The header also includes the SMS-Centre address.
Network Element Identifier Unique identifier for the element reporting the ICE.
Failed attach reason Reason for failed attach of the target subscriber.
Failed context activation reason Reason for failed context activation of the target subscriber.
IAs The observed Interception Areas
Session Initiator The initiator of the PDP context activation, deactivation or modification request either the network or the 3G MS
Initiator SMS indicator whether the SMS is MO or MT
Deactivation / termination cause The termination cause of the PDP context
QoS This field indicates the Quality of Service associated with the PDP Context procedure