Technical Specification Group Services and System Aspects
Meeting #17, Biarritz, France, 9-12 September 2002

TSGS#17(02)0511

Source: SA WG3

Title: 2 CRs to 33.107 (Rel-5)

Document for: Approval

Agenda Item: 7.3.3

SA doc#	Spec	CR	R	Phase	Subject	Cat	Current Version	WI	SA WG3 doc#
SP-020511	33.107	026		Rel-5	Essential clarification to the Timestamp IE	F	5.3.0	SEC1-LI	S3-020346
SP-020511	33.107	027		Rel-5	Additional X3-interface parameters	F	5.3.0	SEC1-LI	S3-020347

3GPP TSG SA WG3 Security — S3#23 **S3-020346**
9 - 12 July 2002
Helsinki, Finland

3GPP SA3-LI #11 ***Tdoc*** S3LI02_109r2
Budapest, Hungary. 4 – 6 June 2002

CR-Form-v5.1

CHANGE REQUEST

⌘ **33.107** **CR** **026** ⌘ **rev** **-** ⌘ Current version: **5.3.0** ⌘

*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 ☒

Title:	⌘	Essential clarification to the Timestamp IE
Source:	⌘	SA WG3
Work item code:	⌘	SEC-LI
Date:	⌘	24 May 2002
Category:	⌘	**F**
Release:	⌘	REL-5

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)*

Reason for change:	⌘	UMTS network elements are synchronized with an accuracy, which is of the order of a second (10^0S). 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:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	33.108
Other comments:	⌘			

7.3.2 Structure of the events

There are eight 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 or the HLR 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.

The following events are applicable to the HLR:

- Roaming.

A set of fields as shown below is used to generate the events. The events transmit the information from 3G GSN or HLR to DF2. This set of fields as shown below can be extended in the 3G GSN or HLR, 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, Serving System, Cell and/or RA update.
Event date Date of the event generation in the 3G GSN or the HLR.
Event time Time of the event generation in the 3G GSN or the HLR. Timestamp shall be generated relative to GSN internal clock.
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 IdentifierUnique 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.
Serving System Address Information about the serving system (e.g. serving SGSN number or serving SGSN address).

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Budapest/Hungary; 04 – 06 June 2002

CR-Form-v4

CHANGE REQUEST

⌘ **33.107** **CR** **027** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

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

Title:	⌘	Additional X3-interface parameters
Source:	⌘	SA WG3
Work item code:	⌘	SEC-LI
Date:	⌘	06 June 2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
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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)

Reason for change:	⌘	The intention of this CR is to bring in alignment what has been defined in TS 33.108 for the HI3 interface (ULIC-header) with the definition of the X3-interface in TS 33.107.
Summary of change:	⌘	Adding of Timestamp and T-PDU Direction to X3-interface.
Consequences if not approved:	⌘	Inconsistency between TS 33.107 and TS 33.108

Clauses affected:	⌘	Clause 7.2.1
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

*** *First Modification* ***

7.2.1 X3-interface

In addition to the intercepted content of communications, the following information needs to be transferred from the 3G GSN to the DF3 in order to allow the DF3 to perform its functionality:

- target identity;
- correlation number;
- time stamp - optional;
- direction (indicates whether T-PDU is MO or MT) - optional;
- the target location (if available) or the IAs in case of location dependent interception.

~~Additional information may be provided as a national option.~~

As a national option, in the case where the 3G GGSN is performing interception of the content of communications, the intercept subject is handed off to another SGSN and the same 3G GGSN continues to handle the content of communications subject to roaming agreements, the 3G GGSN shall continue to perform the interception of the content of communication.