

CHANGE REQUEST

⌘ **33.107 CR 006** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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:	⌘ Correct the MO-SMS and MT-SMS events		
Source:	⌘ S3 WG3-LI		
Work item code:	⌘ TEI	Date:	⌘ June 6, 2001
Category:	⌘ F By consensus	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential 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)

Reason for change:	⌘ Currently, 33.107 states that the MO-SMS and MT-SMS events are ONLY to be reported to the LEA if and only if the SMS transfer is successful (to the MS for MT-SMS and to the SMSC for MO-SMS). However, the requirement in the US is that the message be sent to the LEA whether or not the transmission is successful.
Summary of change:	⌘ SMS sections are reworded so that the event can be sent to the LEA either whether or not the SMS message transfer was successful or when the SMS message transfer was successful.
Consequences if not approved:	⌘ GSM systems in the US could not be compliant to the FCC requirement that SMS messages be transmitted to the LEA whether or not they are successfully delivered to their ultimate destination.

Clauses affected:	⌘ 6.2; 6.3.4.1; 7.1; 7.4.7; B.10		
Other specs affected:	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> 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/3G_Specs/CRs.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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

6.2 Provision of CC - Short Message Service

Figure 14 shows an SMS transfer from the 3G MSC to the LEMF. Quasi-parallel to the delivery from / to the mobile subscriber a message, which contains the contents of the SMS with the header, is generated and sent via the Delivery Function 2 to the LEMF in the same way as the Intercept Related Information.

The IRI will be delivered to the LEMF:

- for a SMS-MO, either when the 3G MSC receives the SMS, or when the 3G MSC receives notification that the SMS-Centre successfully received the SMS;
- for a SMS-MT, either when the 3G MSC receives the SMS, or when the 3G MSC receives notification that the MS successfully received the SMS.

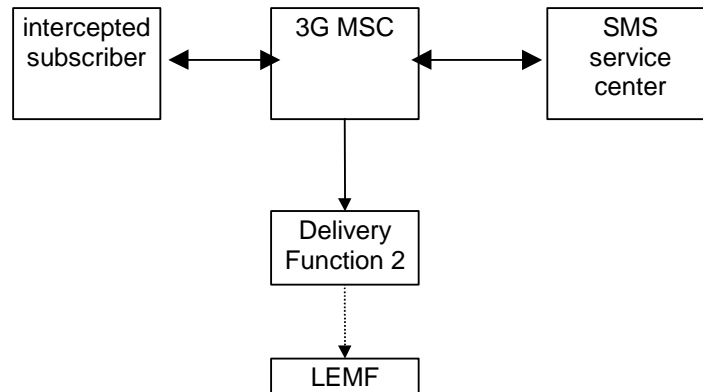


Figure 14: Provision of Content of Communication - Short Message Service

6.3.4.1 SMS

For MO-SMS the event is generated in the 3G MSC, either when the 3G MSC receives the SMS or when the 3G MSC receives notification that the SMSC successfully received the SMS; for MT-SMS the event is generated in the 3G MSC either when the 3G MSC receives the SMS or when the 3G MSC receives notification that the target successfully received the message. This information will be delivered to the DF2 if available:

Observed MSISDN
Observed IMSI
event type
event date
event time
Location Information
SMS Message

7.1 Provision of Intercept Product - Short Message Service

Figure 19 shows an SMS transfer from the 3G SGSN node to the LEA. Quasi-parallel to the delivery from / to the mobile subscriber a message, which contains the content and header of the SMS, is generated and sent via the Delivery Function 2P to the LEA in the same way as the Intercept Related Information.

The IRI will be delivered to the LEA:

- for a SMS-MO, either when the 3G SGSN receives the SMS or when the 3G SGSN receives notification that the SMS-Centre successfully received the SMS;
- for a SMS-MT, either when the 3G SGSN receives the SMS, or when the 3G SGSN receives notification that the MS successfully received the SMS.

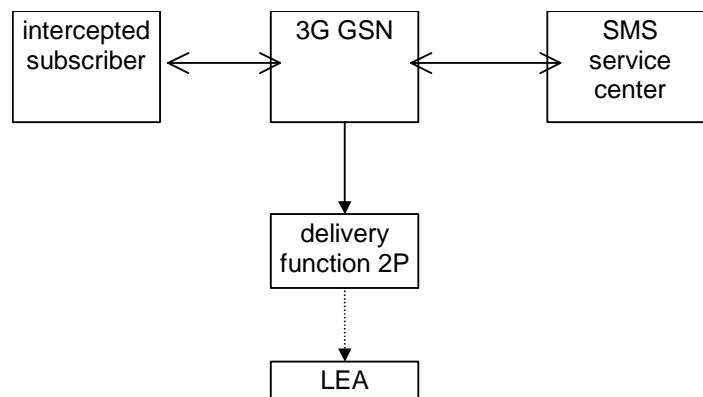


Figure 19: Provision of Intercept Product - Short Message Service

7.4.7 SMS

For MO-SMS_ the event is generated in the 3G SGSN, either when the 3G SGSN receives the SMS or when the 3G SGSN receives notification that the SMS-Centre successfully received the SMS; for MT-SMS the event is generated in the 3G SGSN either when the 3G SGSN receives the SMS or when the 3G SGSN receives notification that the target successfully received the message. This fields will be delivered to the DF2P if available:

Observed MSISDN
Observed IMSI
Observed IMEI
Event Type
Event Time
Event Date
Routing area code
SMS
IAs (if applicable)

****** NEXT MODIFIED SECTION ******

B.10 SMS

Figure B.9 and B.10 show the interception of a Mobile-terminated SMS and a Mobile-originated SMS transfer where the mobile (A) is the target for interception.

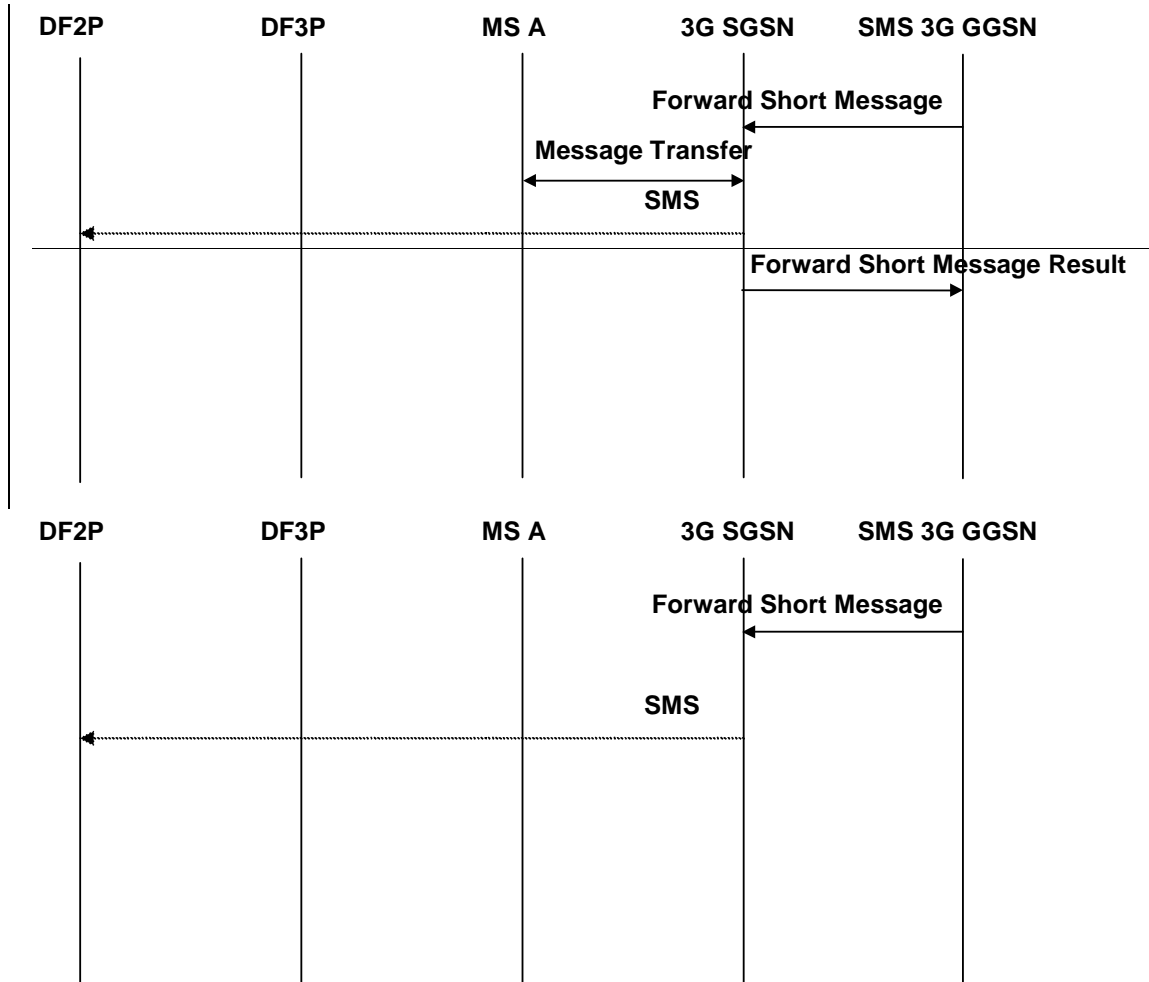


Figure B.9: Interception of a Mobile-terminated SMS transfer

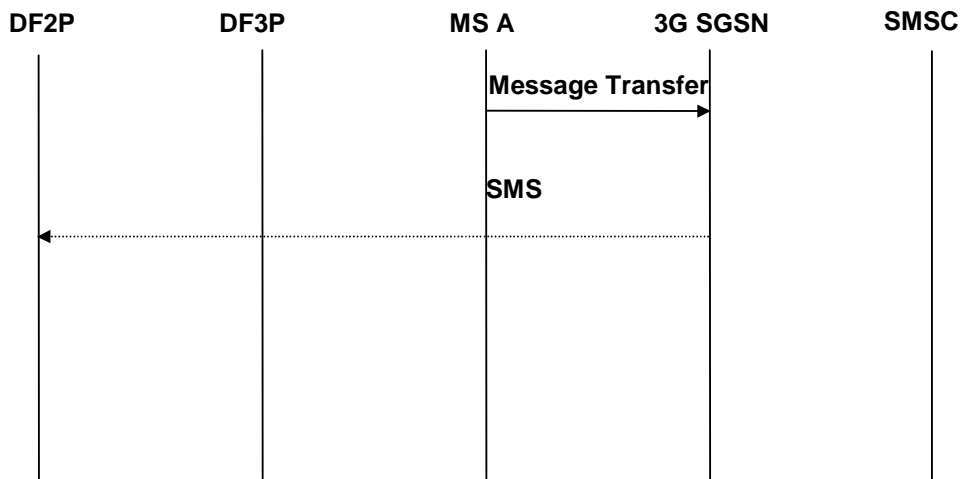
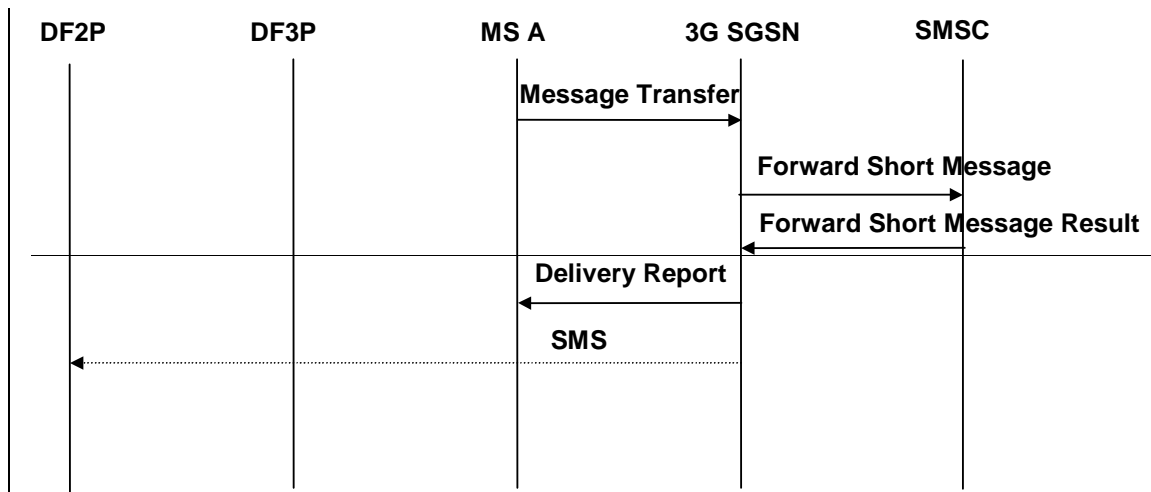


Figure B.10: Interception of a Mobile-originated SMS transfer

**** END OF MODIFICATIONS ****