3GPP TSG-SA WG3 LI Saarbrueken, Germany, 21-23 August 2001 CR-Form-v3

| | | | | | | | | | | | | CR-Form-v3 |
|------------------------------------|--|--|---|--|-------------------|-------------------|-------------|--------|--|--|---|------------|
| CHANGE REQUEST | | | | | | | | | | | | |
| * | 33 | 3.107 | CR x | XX | æ | rev | - | ¥ | Current vers | sion: | 4.1.0 | * |
| For <u>HELP</u> or | using | this forn | n, see b | ottom of | this pag | ge or | look | at the | e pop-up text | over | the 🖁 syr | nbols. |
| Proposed change affects: (U)SIM | | | | | | | | | | | | |
| Title: | ₩ Co | rrect the | MO-SI | MS and M | IT-SMS | S eve | nts | | | | | |
| Source: | ₩ <mark>S</mark> A | WG3 | WG3 | | | | | | | | | |
| Work item code: | ₩ SE | C-LI Date: 第 July 31, 2001 | | | | | | | | | I | |
| Category: | ж <mark>А</mark> | By con | sensus | | | | | | Release: ೫ | RE | L-4 | |
| | Deta | F (corre A (corre B (Addi C (Fund D (Edito | ection) esponds ition of fectional moderial moderns | odification lification) of the abo | ction in a | ure) | | elease | Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5 | (GSN (Rele (Rele (Rele (Rele | ollowing rele A Phase 2) Pase 1996) Pase 1997) Pase 1999) Pase 4) Pase 5) | eases: |
| Reason for chan | ge: Ж | report MT-SI | ed to th MS and ne mess | e LEA if a to the SM | and onl MSC fo | ly if th r MO- | e SM SMS | IS tra | nd MT-SMS eansfer is succonveyer, the representation of the transfer or not the transf | essfu equir | ıl (to the N ement in t | 1S for |
| Summary of cha | SMS sections are reworded so that the event can be optionally sent to the LEA after an "SMS delivered" positive acknowledge is received from the MS or the SMCS, or immediately after a SMS message is received from the SMCS or the MS, regardless of its delivery acknowledgement status. The change indicates that the determination of when the SMS events should be sent to the LEA is dependent on national regulatory requirements. | | | | | | | | | | | |
| Consequences in not approved: | | | | | | | | | | | | |
| Clauses affected | l: # | 6.2; 6 | 5.3.4.1; | 7.1; 7.4. | 7; B.1 | 0 | | | | | | |
| Other specs affected: | ж | Tes | st specif | specifica fications cifications | | ж | | | | | | |
| Other comments | . 92 | | | | | | | | | | | |

**** FIRST MODIFIED SECTION ****

6.2 Provision of CC - Short Message Service

Figure 14 shows an SMS transfer from the 3G MSC Server 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. Dependent on national requirements, delivery shall occur either, when the <u>3G MSC receives the SMS from the target MS</u>, or when the <u>3G MSC receives notification that the SMS-Centre successfully receiveds the SMS;</u>
- for a SMS-MT. Dependent on national requirements, delivery shall occur either, when the 3G MSCMS receives
 the SMS from the SMSC, or when the 3G MSC receives notification that the target MS successfully received the
 SMS.

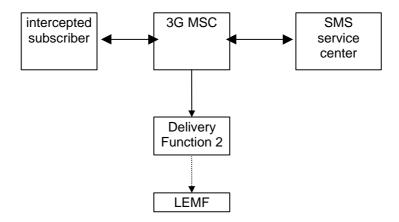


Figure 14: Provision of Content of Communication - Short Message Service

**** NEXT MODIFIED SECTION ****

6.3.4.1 SMS

For MO-SMS the event is generated in the 3G MSC Server. Dependent on national requirements, event generation shall occur either when the 3G MSC Server receives the SMS from the target MS or, when the 3G MSC Server receives notification that the SMSC successfully receiveds the SMS; for MT-SMS the event is generated in the 3G MSC Server. Dependent on national requirements, event generation shall occur either when the 3G MSC Server receives the SMS from the SMSC or when the 3G MSC Server receives notification that the target MS successfully receiveds the message. This information will be delivered to the DF2 if available:

| Observed MSISDN | | | |
|----------------------------|--|--|--|
| Observed IMSI | | | |
| event type | | | |
| event date | | | |
| event time | | | |
| Network Element Identifier | | | |
| Location Information | | | |
| SMS Message | | | |

**** NEXT MODIFIED SECTION ****

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 2 to the LEA in the same way as the Intercept Related Information.

The IRI will be delivered to the LEA:

- for a SMS-MO. Dependent on national requirements, delivery shall occur either when the 3G SGSN receives the SMS from the target MS or, when the 3G SGSN receives notification that the SMS-Centre successfully receiveds the SMS.;
- for a SMS-MT. Dependent on national requirements, delivery shall occur either when the 3G SGSN receives the SMS from the SMS-Centre or, when the 3G SGSN receives notification that the target MS successfully receiveds the SMS.

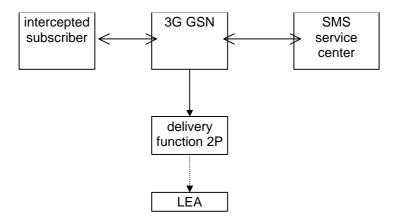


Figure 19: Provision of Intercept Product - Short Message Service

**** NEXT MODIFIED SECTION ****

7.4.7 SMS

For MO-SMS the event is generated in the 3G SGSN. Dependent on national requirements, event generation shall occur either when the 3G SGSN receives the SMS from the target MS or, when the 3G SGSN receives notification that the SMS-Centre successfully receiveds the SMS; for MT-SMS the event is generated in the 3G SGSN. Dependent on national requirements, event generation shall occur either when the 3G SGSN receives the SMS from the SMS-Centre or when the 3G SGSN receives notification that the target MS successfully receiveds the message. This fields will be delivered to the DF2 if available:

| Observed MSISDN |
|----------------------------|
| Observed IMSI |
| Observed IMEI |
| Event Type |
| Event Time |
| Event Date |
| Network Element Identifier |
| Location Information |
| SMS |
| IAs (if applicable) |

B.10 SMS

Figure B.9a and B.9b10 show the interception of a Mobile-terminated SMS. Figure B.10a and B.10b show the interception of a and a-Mobile-originated SMS. transfer where In all the scenarios, the mobile subscriber (A) is the target for interception.

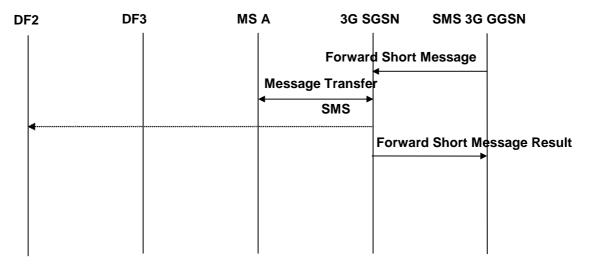


Figure B.9a: Interception of a Mobile-terminated SMS transferMT-SMS interception after 3G SGSN receives notification of SMS delivery to MS(A)

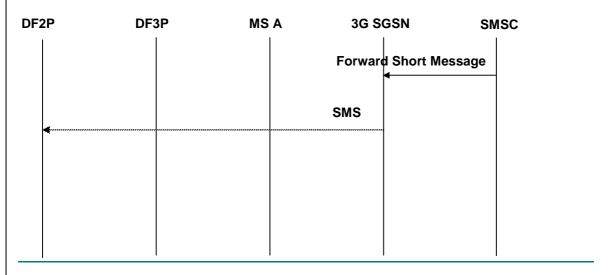


Figure B.9b: MT-SMS interception after 3G SGSN receives SMS from SMSC

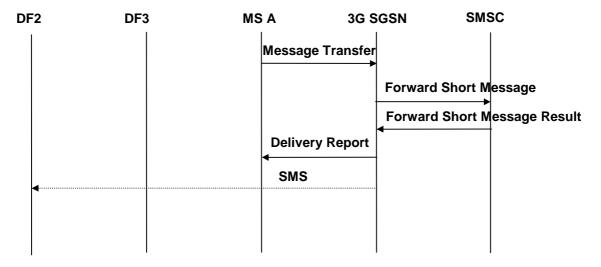


Figure B.10a: Interception of a Mobile-originated SMS transferMO-SMS interception after 3G SGSN receives notification of SMS delivery from SMSC

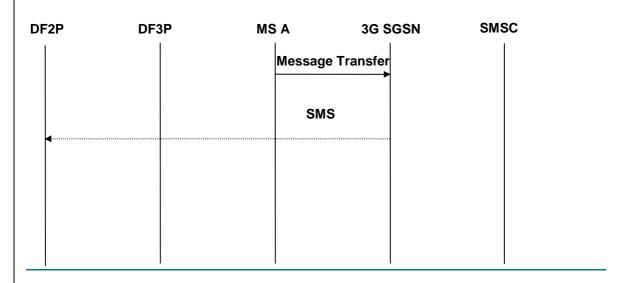


Figure B.10b MO-SMS interception after 3G SGSN receives SMS from MS(A)