

Source: SA WG3
Title: CRs to GSM TS 03.33
Document for: Approval
Agenda Item: 7.3.3

The following CRs were agreed at SA WG3 meeting #16 and are presented to TSG SA #10 for approval.

Note that the CR to R99 (version 8.0.0) is classified as category "C" but corresponds to Lawful Interception requirements already agreed for R99.

Spec	CR	Rev	Phase	Subject	Cat	Ver	WG	Meeting	S3 doc
03.33	002		R98	Addition of parameters to the X3-Interface	C	7.1.0	S3	S3-16	S3-000762
03.33	003		R99	Addition of parameters to the X3-Interface	C	8.0.0	S3	S3-16	S3-000767

CHANGE REQUEST

⌘ **03.33 CR 002** ⌘ rev **-** ⌘ Current version: **7.1.0** ⌘

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:	⌘ Addition of parameters to the X3-Interface		
Source:	⌘ SA WG3		
Work item code:	⌘ Lawful Interception	Date:	⌘ 2000-11-21
Category:	⌘ C	Release:	⌘ R98
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: ⌘ **GSM 03.33** describes on an abstract level the interfaces X2, X1_3 and X3 between GSM internal functional entities (FEs) and the LI specific FEs DF2 and DF3 as well as the information flow to be exchanged over these interfaces. The interfaces X0_2 and X0_3 are regarded to be beyond the scope of the standardisation work of GSM 03.33, they are in the responsibility of regional or national standards.

Regional or national standards (e.g. ETSI ES 201 671) on its part, describe the handover interfaces for the transmission of the results of a legal intercept from the network to the Law Enforcement Agencies (LEA). Like in 03.33, abstract functional entities (IIF, MDF and LEMF) have been introduced to describe

1. the function to be performed in the network and the equipment of the LEAs and
2. the information flow between these functional entities up to the protocol level.

It is quite obvious that the information flow of the interfaces X2 and X0_2 (e.g. HI2) respectively X1_3/X3 and X0_3 (e.g. HI3) needs to fit together, concerning the parameters itself and their encoding.

Although not all parameters defined in the regional/ national standards are deemed to be mandatory in the 3GMS standards, because most of them are contained in the HI3 information flow, the most important parameters to support unambiguous correlation of CC and IRI and the indication, whether the CC contains the sending or receiving signal of the target are missing in the current version of 03.33. In order to make the necessary information available at the DF3, it is proposed to add the following parameters to the X3 interface of 03.33 (cl. 6.1.3):

1. correlation number (IRI <-> CC);
2. direction indication;

The format and length of these parameter should correspond to those specified in the regional or national specifications, e.g. in ETSI ES 201 671. Attached is the proposal for the enhancement of cl. 6.1.3 of GSM 03.33.

Summary of change: ⌘

Consequences if not approved: ⌘ Misalignment between 03.33 and LI requirements specification.

Clauses affected: ⌘ 6.1.3

Other specs affected: ⌘ Other core specifications ⌘ 33.107 CR001
 Test specifications
 O&M Specifications

Other comments: ⌘

6.1.3 X3-interface

The following information needs to be transferred from the MSC/VLR or the GMSC to the DF3 in order to allow the DF3 to perform its functionality:

- the identity of the target (MSISDN, IMSI or IMEI); note 1
- the target location (if available) or the IAs in case of location dependent interception; note 1
- correlation number (IRI <-> CC):
- signal indicator (direction indication – Signal from target or signal to target); note 2

note 1: for DF3 internal use only

note 2: e.g. integer, CC from target = 1, CC from other party = 2

Additional information may be provided if required by national laws as national option.

CHANGE REQUEST

⌘ **03.33 CR 003** ⌘ rev **-** ⌘ Current version: **8.0.0** ⌘

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

Title:	⌘ Addition of parameters to the X3-Interface		
Source:	⌘ SA WG3		
Work item code:	⌘ Lawful Interception	Date:	⌘ 2000-11-21
Category:	⌘ C	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: ⌘ **GSM 03.33** describes on an abstract level the interfaces X2, X1_3 and X3 between GSM internal functional entities (FEs) and the LI specific FEs DF2 and DF3 as well as the information flow to be exchanged over these interfaces. The interfaces X0_2 and X0_3 are regarded to be beyond the scope of the standardisation work of GSM 03.33, they are in the responsibility of regional or national standards.

Regional or national standards (e.g. ETSI ES 201 671) on its part, describe the handover interfaces for the transmission of the results of a legal intercept from the network to the Law Enforcement Agencies (LEA). Like in 03.33, abstract functional entities (IIF, MDF and LEMF) have been introduced to describe

1. the function to be performed in the network and the equipment of the LEAs and
2. the information flow between these functional entities up to the protocol level.

It is quite obvious that the information flow of the interfaces X2 and X0_2 (e.g. HI2) respectively X1_3/X3 and X0_3 (e.g. HI3) needs to fit together, concerning the parameters itself and their encoding.

Although not all parameters defined in the regional/ national standards are deemed to be mandatory in the 3GMS standards, because most of them are contained in the HI3 information flow, the most important parameters to support unambiguous correlation of CC and IRI and the indication, whether the CC contains the sending or receiving signal of the target are missing in the current version of 03.33. In order to make the necessary information available at the DF3, it is proposed to add the following parameters to the X3 interface of 03.33 (cl. 6.1.3):

1. correlation number (IRI <-> CC);
2. direction indication;

The format and length of these parameter should correspond to those specified in the regional or national specifications, e.g. in ETSI ES 201 671. Attached is the proposal for the enhancement of cl. 6.1.3 of GSM 03.33.

Summary of change: ⌘

Consequences if not approved: ⌘ Misalignment between 03.33 and LI requirements specification.

Clauses affected: ⌘ 6.1.3

Other specs affected: ⌘ Other core specifications ⌘ 33.107 CR001
 Test specifications
 O&M Specifications

Other comments: ⌘

6.1.3 X3-interface

The following information needs to be transferred from the MSC/VLR or the GMSC to the DF3 in order to allow the DF3 to perform its functionality:

- the identity of the target (MSISDN, IMSI or IMEI); note 1
- the target location (if available) or the IAs in case of location dependent interception; note 1
- correlation number (IRI <-> CC):
- signal indicator (direction indication – Signal from target or signal to target); note 2

note 1: for DF3 internal use only

note 2: e.g. integer, CC from target = 1, CC from other party = 2

Additional information may be provided if required by national laws as national option.