TSGS#16(02)0293

Source: **SA5 (Telecom Management)**

Title: **2 R99 & Rel-4 CRs 12.04 & 52.402 (Performance measurements - GSM): Remove irrelevant definitions for SGSN measurements related to Ciphering Mode**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-Level	Spec	CR	R	Phase	Subject	Cat	Ver Cur	Ver New	Doc-2nd-Level	Workitem
SP-020293	12.04	A003	-	R99	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	F	8.0.0	8.1.0	S5-028012	OAM-PM
SP-020293	52.402	002	-	Rel-4	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	A	4.0.0	4.1.0	S5-028011	OAM-PM

CR-Form-v5

CHANGE REQUEST

⌘	**12.04**	CR	**A003**	⌘**rev**	**-**	⌘	Current version:	**8.0.0**	⌘

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

Title:	⌘	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode
Source:	⌘	SA5
Work item code: ⌘	OAM-PM	*Date:* ⌘ 05/04/2002

Category:	⌘ **F**	*Release:* ⌘ *R99*

Use <u>one</u> 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 <u>TR 21.900</u>.

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:	⌘	Measurements related to ciphering mode commands are not relevant for SGSN.
Summary of change:	⌘	Delete measurements definitions for ciphering mode commands from SGSN related measurement section.
Consequences if not approved:	⌘	Measurement definitions related only to MSC will be erroneously described as SGSN measurements.
Clauses affected:	⌘	B.8.1.5.10, B.8.1.5.11

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

Other comments:	⌘	The measurements incorrectly included in the SGSN part (B.8.1.5.10 and B.8.1.5.11) are correctly defined for the MSC part (B.3.1.11 and B.3.1.12). The correct corresponding measurements in the SGSN section in 52.402 are B.8.1.5.6 "Attempt of authentication procedures started by SGSN" and B.8.1.5.7 "Successful authentication procedures started by SGSN".

B.8.1.5   Security

B.8.1.5.1   Attempted P-TMSI reallocation procedures

A.   This measurement provides the number of attempted P-TMSI reallocation, or implicitly as part of the Location Updating, procedures in this SGSN.

B.   CC

C.   Transmission of "P-TMSI REALLOCATION COMMAND" message by the SGSN, GSM 04.08 [2].

D.   attPTMSIRealloc

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.2   Successful P-TMSI reallocation procedures

A.   This measurement provides the number of successfully performed P-TMSI reallocation procedures in this SGSN.

B.   CC

C.   Receipt of "P-TMSI REALLOCATION COMPLETE" message by the SGSN, GSM 04.08 [2].

D.   succPTMSIRealloc

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.3   Attempted requests for authentication sets sent to HLR by SGSN

A.   This measurement provides the number of number of attempted requests for authentication sets, sent to the HLR by SGSN, these are counted as attempts.

B.   CC

C.   Transmission of a "MAP SEND_AUTHENTICATION_INFO" service request, requesting authentication sets parameter "AuthenticationSetKind" present, GSM 09.02 [7] .

D.   attReqAuthSetsSentToHlrBySgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.4   Successful requests for authentication sets to HLR

A.   This measurement provides the number of successful requests for authentication sets that were sent from the HLR to the SGSN.

B.   CC

C.   Receipt of a "MAP SEND_AUTHENTICATION_INFO" service confirmation, containing requested authentication sets (parameter "AuthenticationSetList" present GSM 09.02 [7]

D.   succReqAuthSetsHlr

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.5   Empty responses to the request for authentication sets to the HLR

A.   This measurement provides the number of empty responses to the request for authentication sets that were sent to the HLR.

B: CC

C.   Receipt of a "MAP_SEND_AUTHENTICATION_INFO " service confirmation, no Authentication sets present, GSM 09.02 [7]

D.   emptyResponsesForAuthSetsFromHlr

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.6   Attempt of authentication procedures started by SGSN

A.   This measurement provides the number of authentication procedures that are started within this SGSN area.

B.   CC

C.   Transmission of an "AUTHENTICATION AND CIPHERING REQUEST" message to the MS (GSM 04.08).

D.   attAuthInSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.7   Successful authentication procedures started by the SGSN

A.   This measurement provides the number of successful authentication procedures within this SGSN area.

B.   CC

C.   Receipt of an "AUTHENTICATION AND CIPHERING RESPONSE" message from the MS, where the receipt SRES parameter value matches the value stored in the SGSN (GSM 04.08).

D.   succAuthInSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.8   Attempted Identity Request procedures

A.   This measurement provides the number of attempted Identity Request procedures initiated by this SGSN.

B.   CC

C.   Transmission of an "IDENTITY REQUEST" message to the MS (GSM 04.08).

D.   attIdentityReq

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.9   Successful Identity Request procedures

A.   This measurement provides the number of successfully completed Identity Request procedures initiated by this SGSN.

B.   CC

C.   Receipt of an "IDENTITY RESPONSE" message with IMSI by the SGSN from the MS(GSM 04.08).

D.   succIdentityReq

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.10   ~~Attempted ciphering mode control procedures~~

A.   ~~This measurements provides the number of ciphering mode control procedures initiated in the SGSN.~~

B.   ~~CC~~

C.   ~~Transmission of "CIPHER MODE COMMAND" (GSM 08.08).~~

D.   ~~attCipheringModeControlPerSgsn~~

E.   ~~A single integer value.~~

F.   ~~SGSN Measurement Function.~~

G.   ~~Valid for packet switching.~~

B.8.1.5.11   ~~Successful ciphering mode control procedures~~

A.   ~~This measurement provides the number of successfully completed ciphering mode control procedures that were initiated in this SGSN.~~

B.   ~~CC~~

C.   ~~Receipt of "CIPHER MODE COMPLETE" Message (GSM 08.08).~~

D.   ~~succCipheringModeControlPerSgsn~~

E.   ~~A single integer value.~~

F.   ~~SGSN Measurement Function.~~

G.   ~~Valid for packet switching.~~

CR-Form-v5

CHANGE REQUEST

	⌘	**52.402** CR **002**	⌘**rev**	**-**	⌘	Current version:	**4.0.0**	⌘

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

Title:	⌘	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode
Source:	⌘	SA5

Work item code: ⌘	OAM-PM	**Date:** ⌘	05/04/2002

Category:	⌘ **A**		**Release:** ⌘	*REL-4*

Use one of the following categories:
 F (correction)
 A (corresponds to a correction in an earlier release)
 B (addition of feature),
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Detailed explanations of the above categories can
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Use one of the following releases:
 2 (GSM Phase 2)
 R96 (Release 1996)
 R97 (Release 1997)
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 REL-4 (Release 4)
 REL-5 (Release 5)

Reason for change: ⌘	Measurements related to ciphering mode commands are not relevant for SGSN.
Summary of change: ⌘	Delete measurements definitions for ciphering mode commands from SGSN related measurement section.
Consequences if not approved: ⌘	Measurement definitions related only to MSC will be erroneously described as SGSN measurements.

Clauses affected: ⌘	B.8.1.5.10, B.8.1.5.11

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

Other comments:	⌘	The measurements incorrectly included in the SGSN part (B.8.1.5.10 and B.8.1.5.11) are correctly defined for the MSC part (B.3.1.11 and B.3.1.12). The correct corresponding measurements in the SGSN section in 52.402 are B.8.1.5.6 "Attempt of authentication procedures started by SGSN" and B.8.1.5.7 "Successful authentication procedures started by SGSN".

B.8.1.5   Security

B.8.1.5.1   Attempted P-TMSI reallocation procedures

A.   This measurement provides the number of attempted P-TMSI reallocation, or implicitly as part of the Location Updating, procedures in this SGSN.

B.   CC

C.   Transmission of "P-TMSI REALLOCATION COMMAND" message by the SGSN, GSM 04.08 [2].

D.   attPTMSIRealloc

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.2   Successful P-TMSI reallocation procedures

A.   This measurement provides the number of successfully performed P-TMSI reallocation procedures in this SGSN.

B.   CC

C.   Receipt of "P-TMSI REALLOCATION COMPLETE" message by the SGSN, GSM 04.08 [2].

D.   succPTMSIRealloc

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.3   Attempted requests for authentication sets sent to HLR by SGSN

A.   This measurement provides the number of number of attempted requests for authentication sets, sent to the HLR by SGSN, these are counted as attempts.

B.   CC

C.   Transmission of a "MAP SEND_AUTHENTICATION_INFO" service request, requesting authentication sets parameter "AuthenticationSetKind" present, GSM 09.02 [7] .

D.   attReqAuthSetsSentToHlrBySgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.4   Successful requests for authentication sets to HLR

A.   This measurement provides the number of successful requests for authentication sets that were sent from the HLR to the SGSN.

B.   CC

C.   Receipt of a "MAP SEND_AUTHENTICATION_INFO" service confirmation, containing requested authentication sets (parameter "AuthenticationSetList" present GSM 09.02 [7]

D.   succReqAuthSetsHlr

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.5   Empty responses to the request for authentication sets to the HLR

A.   This measurement provides the number of empty responses to the request for authentication sets that were sent to the HLR.

B: CC

C.   Receipt of a "MAP_SEND_AUTHENTICATION_INFO " service confirmation, no Authentication sets present, GSM 09.02 [7]

D.   emptyResponsesForAuthSetsFromHlr

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.6   Attempt of authentication procedures started by SGSN

A.   This measurement provides the number of authentication procedures that are started within this SGSN area.

B.   CC

C.   Transmission of an "AUTHENTICATION AND CIPHERING REQUEST" message to the MS (GSM 04.08).

D.   attAuthInSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.7   Successful authentication procedures started by the SGSN

A.   This measurement provides the number of successful authentication procedures within this SGSN area.

B.   CC

C.   Receipt of an "AUTHENTICATION AND CIPHERING RESPONSE" message from the MS, where the receipt SRES parameter value matches the value stored in the SGSN (GSM 04.08).

D.   succAuthInSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.8   Attempted Identity Request procedures

A.   This measurement provides the number of attempted Identity Request procedures initiated by this SGSN.

B.   CC

C.   Transmission of an "IDENTITY REQUEST" message to the MS (GSM 04.08).

D.   attIdentityReq

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.9   Successful Identity Request procedures

A.   This measurement provides the number of successfully completed Identity Request procedures initiated by this SGSN.

B.   CC

C.   Receipt of an "IDENTITY RESPONSE" message with IMSI by the SGSN from the MS(GSM 04.08).

D.   succIdentityReq

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.10   Attempted ciphering mode control procedures

A.   This measurements provides the number of ciphering mode control procedures initiated in the SGSN.

B.   CC

C.   Transmission of "CIPHER MODE COMMAND" (GSM 08.08).

D.   attCipheringModeControlPerSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.

B.8.1.5.11   Successful ciphering mode control procedures

A.   This measurement provides the number of successfully completed ciphering mode control procedures that were initiated in this SGSN.

B.   CC

C.   Receipt of "CIPHER MODE COMPLETE" Message (GSM 08.08).

D.   succCipheringModeControlPerSgsn

E.   A single integer value.

F.   SGSN Measurement Function.

G.   Valid for packet switching.