Technical Specification Group Services and System Aspects Meeting #16, Marco Island, Florida, 10-13 June 2002

Source: SA5 (Telecom Management)

Title: 2 R99 & Rel-4 CRs 12.04 & 52.402 (Performance measurements -

GSM): Correction of erroneous definitions of SGSN

measurements

Document for: Approval

Agenda Item: 7.5.3

Doc-1 st	Spec	CR	R	Phase	Subject	Cat	Ver	Ver	Doc-2 nd	Workite
-Level							Cur	New	-Level	m
SP-020292	12.04	A002	-		Correction of erroneous definitions of SGSN measurements	F	8.0.0	8.1.0	S5-028010	OAM-PM
SP-020292	52.402	001	-	-	Correction of erroneous definitions of SGSN measurements	Α	4.0.0	4.1.0	S5-028009	OAM-PM

CHANCE DECLIECT									
CHANGE REQUEST									
*	12.04 CR A002 ** rev - **	Current version: 8.0.0 **							
For HELP on u	sing 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 X Core Network X									
Title: 第	Correction of erroneous definitions of SGSN meas	urements							
Source: #	SA5								
Work item code: ₩	OAM-PM	<i>Date:</i> ## 05/04/2002							
Category: 業	F 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.	Release: % R99 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: Downlink measurement conditions are incorrect for SNDCP measurements, because a downlink counter counts an uplink message.									
Summary of change: **Correct measurement conditions in the affected SGSN measurements.**									
Consequences if not approved:	# The measurement system will provide inaccurate because: a) it will count one message twice (SN-UNIDA directions, while the message is always sent or b) it will not count necessary message at all (see the count necessary message).	ΓA.ind) in uplink and downlink nly in uplink direction.							
Clauses affected:	ж В.8.1.2.3, В.8.1.2.4								
Other specs affected:	Other core specifications Test specifications 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://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

B.8.1.2 SNDCP Measurements

B.8.1.2.1 Number of received SNDCP N-PDUs

- A. This measurement provides the number of incoming N-PDUs received by the SNDCP protocol.
- B. CC
- C. Receipt of the "SN-DATA.ind" or "SN-UNITDATA.ind" primitive, GSM TS 04.65 [25].
- D. uplinkSndcpNpduReceived
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.2 Number of received SNDCP N-PDU octets

- A. This measurement provides the number of octets in incoming N-PDUs received by the SNDCP protocol layer.
- B. CC
- C. Receipt of the "SN-DATA.ind" or "SN-UNITDATA.ind" primitive, GSM TS 04.65 [25].
- D. uplinkSndcpOctetReceivedMode
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.3 Number of sent SNDCP N-PDUs

- A. This measurement provides the number of outgoing N-PDUs sent by the SNDCP protocol layer.
- B. CC
- C. Sent of the "SN-DATA.req" and "SN-UNITDATA.reqind" primitive(GSM TS 04.65).
- D. downlinkSndcpNpduSent
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.4 Number of sent SNDCP N-PDU octets

- A. This measurement provides the number of octets in outgoing N-PDUs sent by the SNDCP protocol layer.
- B. CC
- C. Sent of the "SN-DATA.req" and "SN-UNITDATA.reqind" primitive(GSM TS 04.65).
- D. downlinkSndcpOctetSent
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

CHANGE REQUEST								CR-Form-v5					
*	52	.402	CR	001		ж re\	/	-	¥	Current ve	rsion:	4.0.0	H
For <u>HELP</u> on u	ısing	this for	m, se	e bottom	of this	s page	or l	ook	at th	e pop-up te	xt ove	r the ₩ s	ymbols.
Proposed change affects: \$\%\$ (U)SIM ME/UE Radio Access Network X Core Network X													
Title:	Co	rrectio	n of er	roneous	defini	tions of	SC	SSN	mea	surements			
Source: #	SA	.5											
Work item code: ₩	OA	M-PM								Date:	₩ 05	5/04/2002	
Category: Ж	A Use			owing cat	egorie	s:					of the f	EL-4 Following re	
		B (add C (fun D (edi ailed exp	respon dition o ctional torial m olanatio	ods to a conferment of the ature), modification on the TR 21.90	ion of a n) above	feature)			eleas	2 P) R96 R97 R98 R99 REL-4 REL-5	(Rei (Rei (Rei (Rei	M Phase 2 lease 1996 lease 1997 lease 1998 lease 4) lease 5)	s) 7) 3)
Reason for change	e: X	Downlink measurement conditions are incorrect for SNDCP measurements, because a downlink counter counts an uplink message.										ents,	
Summary of change: Correct measurement conditions in the affected SGSN measurements.													
Consequences if not approved:	ж	becau	ise:							rate and mi			
										only in uplir (SN-UNID <i>A</i>			
b) it will not count necessary message at all (SN-UNIDATA.req)													
Clauses affected:	ж	B.8.	I.2.3, I	B.8.1.2.4									
Other specs affected:	¥	Te	est spe	ore speci ecificatio pecificatio	ns	ons	¥						
Other comments:	ж												

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B.8.1.2 SNDCP Measurements

B.8.1.2.1 Number of received SNDCP N-PDUs

- A. This measurement provides the number of incoming N-PDUs received by the SNDCP protocol.
- B. CC.
- C. Receipt of the "SN-DATA.ind" or "SN-UNITDATA.ind" primitive, GSM TS 04.65 [25].
- D. uplinkSndcpNpduReceived.
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.2 Number of received SNDCP N-PDU octets

- A. This measurement provides the number of octets in incoming N-PDUs received by the SNDCP protocol layer.
- B. CC.
- C. Receipt of the "SN-DATA.ind" or "SN-UNITDATA.ind" primitive, GSM TS 04.65 [25].
- D. uplinkSndcpOctetReceivedMode.
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.3 Number of sent SNDCP N-PDUs

- A. This measurement provides the number of outgoing N-PDUs sent by the SNDCP protocol layer.
- B. CC.
- C. Sent of the "SN-DATA.req" and "SN-UNITDATA.indreq" primitive(GSM TS 04.65).
- D. downlinkSndcpNpduSent.
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.

B.8.1.2.4 Number of sent SNDCP N-PDU octets

- A. This measurement provides the number of octets in outgoing N-PDUs sent by the SNDCP protocol layer.
- B. CC.
- C. Sent of the "SN-DATA.req" and "SN-UNITDATA.indreq" primitive(GSM TS 04.65).
- D. downlinkSndcpOctetSent.
- E. A single integer value.
- F. SGSN Measurement Function.
- G. Valid for packet switching.