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

Source: SA5 (Telecom Management)

Title: 2 Rel-4 & Rel-5 CRs 32.215 (PS charging): Correcting definition of

traffic data volume CDR field & Specify usage of the LRSN to

avoid loss of billing data

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-020288	32.215	013	-		Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	F	4.2.1	4.3.0	S5-024165	OAM-CH
SP-020288	32.215	014	-		Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	A	5.0.0	5.1.0	S5-024166	OAM-CH

CHANGE REQUEST										CR-Form-v5	
*	32.	.215	CR <mark>013</mark>	жre	ev	- #	3 Cu	rrent vers	ion:	4.2.0	¥
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.											
Proposed change a	affec	ts: #	(U)SIM	ME/UE	ı	Radio	Acces	s Networ	k	Core Ne	etwork X
Title:			g definition of to s of billing data		olum	e CDR	Rfield	& Specify	usag	e of the L	RSN to
Source: #	SA	5									
Work item code: ₩	OA	M-CH						Date: ℜ	24/	05/2002	
Category:	Deta	F (corr A (corr B (add C (fund D (edit iled exp	the following cate rection) responds to a co dition of feature), ctional modification torial modification planations of the 3GPP TR 21.900	orrection in a ion of feature n) above categ	e)		L	llease: % Jse <u>one</u> of 2 R96 R97 R98 R99 REL-4 REL-5	the fo (GSM (Rele (Rele (Rele (Rele (Rele	L-4 Ilowing rel 1 Phase 2) ase 1996) ase 1997) ase 1999) ase 4) ase 5)	
 Correct the definitions of the traffic data volume CDR fields to ensure that accurate timestamp information is available for billing and other CDR-based operational needs. Specify proper usage of the Local Record Sequence Number (LRSN) to avoid loss of billing data. 									R-based		
Summary of chang	e: #	 For the timestamp in each traffic data volume container, state that this is the time of closure of the data volume container. State explicitly that the LRSN is unique <i>per partial record</i> with a node. 									
Consequences if not approved:								ect N per			
Clauses affected:	¥	5.15,	, 5.16								
Other specs affected:	*	Te	ther core speciest specification &M Specification	าร	¥	Mirro	r CR i	n the sco	pe of	32.215 R	EL-5.
Other comments:	Ж										

5.15 List of Traffic Data Volumes

This list includes one or more containers, each includes the following fields:

Data Volume Uplink, Data Volume Downlink, Change Condition and Change Time.

Data Volume, Uplink and/or **Downlink**, includes the number of octets transmitted during the use of the packet data services in the uplink and/or downlink direction, respectively.

Change Condition defines the reason for closing the container (see TS 32.200 [3] Clause 6), such as tariff time change, QoS change or closing of the CDR.

Change Time is a time stamp, which defines the moment when the new-volume counts are started container is closed or the CDR is closed. All the active PDP contexts do not need to have exactly the same time stamp e.g. due to same tariff time change (variance of the time stamps is implementation and traffic load dependent, and is out of the scope of standardisation).

5.16 Local Record Sequence Number

This field includes a unique record number created by this node. The number is allocated sequentially <u>for each partial CDR</u> (or whole <u>CDR</u>) including all CDR types. The number is unique within one node, which is identified either by field Node ID or by record-dependent node address (SGSN address, GGSN address, Recording Entity).

The field can be used e.g. to identify missing records in post processing system.

Meeting #28, Sophia Antipolis, FRANCE, 20 - 24 May 2002								
CHANGE REQUEST								
*	32.215	CR 014	≋ rev	- %	Current version:	5.0.0 **		
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Proposed change a	nffects: ೫	(U)SIM	ME/UE	Radio Ad	ccess Network	Core Network X		
Title: ₩		g definition of tra s of billing data	affic data volur	ne CDR fi	ield & Specify usa	ge of the LRSN to		
Source: #	SA5							
Work item code: ₩	OAM-CH				Date:	/05/2002		
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Reason for change	2.	accurate timesta operational need	amp informatio ds. Isage of the Lo	n is availa	volume CDR field able for billing and rd Sequence Num	other CDR-based		
Summary of chang	t	ime of closure of	of the data volu	ıme conta		tate that this is the with a node.		
Consequences if not approved:	i 2. l !	mplementations Jnable to use the missing records	s. ne local record from a GSN. (ther than per p	sequence Incorrect	rent meaning for denoted number (LRSN) usages, e.g. to all ord, makes use of	field to detect ocate LRSN per		
Clauses affected:	ж 5.15	, 5.16						
	0.10	, 3.10						
Other specs affected:	Te	ther core specifest specification &M Specification	S		CR in the scope of	[:] 32.215 REL-4.		
Other comments:	×							

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