Source: **SA5 (Telecom Management)**

Title: **R99 CR32.015 Charging (S5-010644)**

Document for: **Decision**

Agenda Item: **7.5.3**

Doc-1st-	Spec	CR	R	Phase	Subject	Ca	Versi	Versi	Doc-2nd-	Workitem
SP-010632	32.015	033		R99	**Precision of encoding rule for CDR item "Access Point Name"**	F	3.7.0	3.8.0	S5-010644	OAM-CH

CR-Form-v4

CHANGE REQUEST

| ✂ | **32.015** CR **033** | ✂ ev **-** ✂ | Current version: **3.7.0** ✂ |

*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 **X**

Title: ✂	Precision of encoding rule for CDR item "Access Point Name"	
Source: ✂	SA5	
Work item code: ✂	OAM-CH	*Date:* ✂ 19/10/2001

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: ✂	Current specification is ambiguous with regard to the encoding rule for the CDR items APN-OI and APN-NI. As such it is not clear whether the "dot"-notation or the "length/value"-notation shall be used. In order to guarantee a unique interpretation of this rule a precision is essential.
Summary of change: ✂	The encoding rule for the ASN.1 parameter APN-OI and APN-NI is changed in the way that the "dot"-notation option is clearly selected as the only allowed one. This change is done in accordance with the related Rel-4 specification 32.215 wherein the proposed change is already incorporated.
Consequences if not approved: ✂	A multi-vendor environment may generate CDRs using different encoding schemes. This may disallow billing services decoding CDRs appropriately, resulting in severe billing errors.

Clauses affected: ✂	8.1
Other specs affected: ✂	☐ Other core specifications ✂ ☐ Test specifications ☐ O&M Specifications
Other comments: ✂	-

8 Charging Data Record Structure

8.1 ASN.1 definitions for CDR information

```
-----------------------------------------------------------------------
--
--  COMMON DATA TYPES
--
-----------------------------------------------------------------------

AccessPointNameNI   ::= IA5String (SIZE(1..63))
    --
    -- Network Identifier part of APN in "dot" representation
    -- For example, if the complete APN is 'apn1a.apn1b.apn1c.mnc022.mcc111.gprs'
    -- NI is 'apn1a.apn1b.apn1c' and is presented in this form in the CDR.
    -- see TS 23.003
    --

AccessPointNameOI   ::= IA5String (SIZE(1..37))
    --
    -- Operator Identifier part of APN in "dot" representation
    -- In the 'apn1a.apn1b.apn1c.mnc022.mcc111.gprs' example, the OI portion is 'mnc022.mcc111.gprs'
    -- and is presented in this form in the CDR.
    -- see TS 23.003
    --
```