Source:	**SA5 (Telecom Management)**
Title:	**2 Rel-4/5 CRs 32.235 (Service Charging): "Correction of Message Size Definition - alignment with T2's 23.140"**
Document for:	**Approval**
Agenda Item:	**7.5.3**

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
SP-030059	32.235	011	-	Rel-4	**Correction of Message Size Definition - alignment with T2's 23.140**	F	4.4.0	S5-034161	OAM-CH
SP-030059	32.235	012	-	Rel-5	**Correction of Message Size Definition - alignment with T2's 23.140**	A	5.1.0	S5-034162	OAM-CH

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.235** CR **011** | ⌘**rev** | **-** | ⌘ | Current version: | **4.4.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐   Radio Access Network ☐   Core Network **X**

Title:	⌘	Correction of Message Size Definition - alignment with T2's 23.140
Source:	⌘	S5
Work item code: ⌘	OAM-CH	***Date:*** ⌘ 28/02/2003

Category:	⌘ **F**	***Release:*** ⌘ Rel-4

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.

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)*
Rel-6   *(Release 6)*

Reason for change:	⌘	In LS (S5-034019/T2-020947) T2 pointed out ambiguities in SA5's current MMS message size definition which are due to the MMS message format. These ambiguities could lead to different calculation results in different implementations. In order to ensure correct calculation of the message size at all involved entities the definition needed to be corrected.
Summary of change: ⌘		The current message size definition is aligned with the definition in TS 23.140 reflecting the exclusion of headers and boundaries in the size calculation.
Consequences if not approved:	⌘	Ambiguities in the message size definition leads to different calculation results in different implementations and cause charging errors.

Clauses affected:	⌘	5.16

	Y	N		
Other specs ⌘		X	Other core specifications ⌘	
affected:		X	Test specifications	
		X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:

Change in Clause 5.16

5.16   Message Size

~~The message size includes the number of octets of the subject information element and of all media components of the transmitted MM.~~

~~The message size in a CDR is calculated from the event ("abstract message") on the MM1 reference point or on the MM4 reference point that triggered the creation of this CDR, as specified in table 4.1 - 4.3. E.g. for the O1S CDR this is the MM1_submit_RES, and for the O4FRq CDR it is the MM4_forward_REQ.~~

The Message size is defined as the sum of the Subject information element size and the size of all the MM element(s), including the Presentation object (e.g. SMIL). Other information elements of a MM shall be excluded from the message size calculation.

5.16.1   Size of Subject information element

The size of the Subject information element shall be calculated as the length of the subject field in octets excluding the "Subject: " token.

5.16.2   Size of an MM element

The size of an MM element shall be calculated as the total number of octets of the media object, i.e. raw data without any boundaries or additional headers which are due to MIME-based encodings of the MM.

In case of an MM element being a multipart/mixed or multipart/related MIME message, the total number of octets contained in the body of that MIME message (i.e. that MM element) shall be counted including only the boundaries and additional headers which are part of the MIME message (i.e. that MM element).

NOTE 1: It is understood that due to the different encoding used in the MM4 reference point for the Subject field, there can be a slight discrepancy in the message size calculated over the MM1 and MM4 reference points.

NOTE 2: The message size of a submitted MM might differ from the message size of a retrieved MM if content adaptation is performed prior to its retrieval.

End of Change in Clause 5.16

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.235** CR **012** | ⌘**rev** | **-** | ⌘ | Current version: | **5.1.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐ Radio Access Network ☐ Core Network **X**

Title:	⌘	Correction of Message Size Definition - alignment with T2's 23.140

Source:	⌘	S5

Work item code:	⌘	OAM-CH	***Date:*** ⌘	28/02/2003

Category:	⌘	**A**	***Release:*** ⌘	Rel-5

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 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)*
Rel-6   *(Release 6)*

Reason for change:	⌘	The T2 and SA5 message size definitions were harmonised in order to provide a common baseline on which all charging can be based at all stages of the service. These definitions were agreed at SA#17. However, T2 refined its Rel-5 definition in a way that the customer's volume perception shall be based on the content and not the signalling overhead.

Summary of change:	⌘	The current message size definition is aligned with T2's definition by referencing TS 23.140.

Consequences if not approved:	⌘	The definition of message size in TS 32.235 would contradict to TS 23.140.

Clauses affected:	⌘	5.20

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:

Change in Clause 5.20

5.20 Message Size

~~The message size includes the number of octets of the subject information element and of all media components of the transmitted MM.~~

~~The message size in a CDR is calculated from the event ("abstract message") on the MM1 reference point or on the MM4 reference point that triggered the creation of this CDR, as specified in table 4.1 - 4.3. E.g. for the O1S-CDR this is the MM1_submit_RES, and for the O4FRq-CDR it is the MM4_forward_REQ.~~

This field contains the number of octets of the MM that is calculated as specified in TS 23.140 [4].

End of Change in Clause 5.20