

---

**Source:** SA5 (Telecom Management)  
**Title:** Reply LS to T2 (cc: GSMA, SA, T) on Alignment of MMS Message Size definition  
**Document for:** Information  
**Agenda Item:** 7.5.3

---

**3GPP TSG-SA5 (Telecom Management) S5-034160**  
**Meeting #33, Phoenix, USA, 24-28 February 2003**

**Title:** Reply LS on Alignment of MMS Message Size definition  
**Response to:** LS (T2-020947/S5-034019) on "Alignment of MMS Message Size definition" from T2  
**Release:** Rel-4 and Rel-5  
**Work Item:** OAM-CH

**Source:** SA5  
**To:** T2  
**Cc:** GSMA BARG CPWP, SA, T

**Contact Person:**  
**Name:** Gerald GÖRMER  
**Tel. Number:** +49 30 386 29322  
**E-mail Address:** [gerald.goermer@siemens.com](mailto:gerald.goermer@siemens.com)

**Attachments:** S5-034161, S5-034162 (draft Rel-4/5 CRs 32.235)

---

### 1. Overall Description:

SA5 thanks T2 for their response (T2-020947/S5-034019) to SA5's LS (S5-024337) on "MMS Volume Definition" and for T2's work to adapt the MMS Rel-4 and Rel-5 specifications to SA5's message definition.

SA5 agrees to the T2 recommendation contained in the incoming LS (T2-020947/S5-034019). The two attached draft Rel-4/5 CRs contain the proposed changes to SA5's MMS charging specification TS 32.235 (S5-034161 and S5-034162) and will be submitted to SA#19 for Approval in 03/2003.

If approved at SA#19, SA5 assumes that this satisfies the request to align the message size definition in SA5's TS 32.235 for both Rel-4 and Rel-5.

### 2. Actions:

None

### 3. Date of Next SA5 Meetings:

Meeting	Date	Location	Host
SA5#33bis	7-11 April 2003	Berlin, GERMANY	EF
SA5#34	19-23 May 2003	Sophia Antipolis, FRANCE	ETSI
SA5#34bis	14-18 July 2003	Cork, IRELAND	Motorola

## CHANGE REQUEST

⌘ **32.235** CR **CRNum** ⌘ 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

<b>Title:</b>	⌘ Correction of Message Size Definition - alignment with T2's 23.140		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-CH	<b>Date:</b>	⌘ 28/02/2003
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ 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.
<b>Summary of change:</b>	⌘ 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.
<b>Consequences if not approved:</b>	⌘ Ambiguities in the message size definition leads to different calculation results in different implementations and cause charging errors.

<b>Clauses affected:</b>	⌘ 5.16										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	⌘	X	⌘	X	⌘	X		
Y	N										
⌘	X										
⌘	X										
⌘	X										
<b>Other comments:</b>	⌘										

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.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.

**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**

## CHANGE REQUEST

⌘ **32.235** CR **CRNum** ⌘ 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

<b>Title:</b>	⌘	Correction of Message Size Definition - alignment with T2's 23.140	
<b>Source:</b>	⌘	SA5	
<b>Work item code:</b>	⌘	OAM-CH	<b>Date:</b> ⌘ 28/02/2003
<b>Category:</b>	⌘	<b>A</b>	<b>Release:</b> ⌘ Rel-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		<b>F</b> (correction)	2 (GSM Phase 2)
		<b>A</b> (corresponds to a correction in an earlier release)	R96 (Release 1996)
		<b>B</b> (addition of feature),	R97 (Release 1997)
		<b>C</b> (functional modification of feature)	R98 (Release 1998)
		<b>D</b> (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘	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.
<b>Summary of change:</b>	⌘	The current message size definition is aligned with T2's definition by referencing TS 23.140.
<b>Consequences if not approved:</b>	⌘	The definition of message size in TS 32.235 would contradict to TS 23.140.

<b>Clauses affected:</b>	⌘	5.20								
<b>Other specs affected:</b>	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	X	X	X	X	X	X
Y	N									
X	X									
X	X									
X	X									
<b>Other comments:</b>	⌘									

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.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.

**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**