Source: SA5 (Telecom Management)

Title:Rel-5 CR 32.235 (Charging data description for application
services) : Correction of content adaptation indication in the MMS
Retrieval CDR

Document for: Approval

Agenda Item: 7.5.3

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
SP-030408	32.235	017	-	Rel-5	Correction of content adaptation indication in the MMS Retrieval CDR - Alignement with T2's 23.140	F	5.3.0	S5-034556	OAM-CH

3GPP TSG-SA5 (Telecom Management)

S5-034556

Meeting #35, Sophia Antipolis, FRANCÉ, 27 Aug - 10 Sep 2003								
ж	32.2	<mark>35</mark> CR	017	жrev	- #	Current vers	sion: 5.3.0	ж
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 affects: UICC apps# ME Radio Access Network Core Network								
Title: Ж	Corre with 7	ction of co 2's 23.140	ntent adaptati	on indicati	on in the	e MMS Retriev	val CDR - Align	ement
Source: ೫	SA5 (alain.bibas	@francetelec	om.com)				
Work item code: ℜ	OAM	CH				<i>Date:</i> ₩	05/09/2003	
Category: ⊮	F Use <u>on</u> F A B C D Detailed be foun	e of the follo (correction) (correspond (addition of (functional i (editorial m d explanatio d in 3GPP]	wing categorie ls to a correctio feature), modification of odification) ns of the above <u>R 21.900</u> .	s: on in an ear feature) e categories	lier releas	Release: ¥ Use <u>on</u> of 2 se) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	5 Rel-5 f the following rel (GSM Phase 2, (Release 1996, (Release 1997, (Release 1998, (Release 1999, (Release 4) (Release 5) (Release 6)	eases:
Reason for change	e: # t F	TS 23.140 he capabili Relay/Serv specificatio	specifies requ ties of the use er. However, a ns.	irements t er agent in this is not	o captur the CDI currently	e the adaptati Rs generated rincluded in M	ion of the MM c by the Receipi IMS Charging	content to ent MMS
Summary of change: #		Parameters are added to the Recipient MM1 Retrieve CDR that capture information about MM Content adaptation						
Consequences if not approved:	1	<mark>/lisalignem</mark> No possibil	ent between ty to charge t	TS 32.235 he recipie	and TS nt user fo	23.140 or performing	content adapta	tion
Clauses affected:	¥ 4	<mark>1.2.2.4, 5 a</mark>	nd 6					
Other specs affected:	۲ ۳	N X Other X Tests X O&M	core specific specifications Specifications	ations s	ж			
Other comments:	Ħ							

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

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.

KEEP the History box of the TS to be changed (see end of the present document)

4.2.2.4 Recipient MM1 Retrieve CDR (R1Rt-CDR)

If enabled, a Recipient MM1 Retrieve Response Charging Data Record (R1Rt-CDR) shall be produced in the recipient MMS Relay/Server if and when the recipient MMS Relay/Server has sent a MM1_retrieve.RES to the recipient MMS User Agent. That is, the CDR is created upon completion of transmission of the MM1_retrieve.RES.

Field	Category	Description			
Record Type	M	Recipient MM1 Retrieve record.			
Recipient MMS Relay/Server Address	М	IP address or domain name of the recipient MMS Relay/Server.			
Message ID	М	The MM identification provided by the originator MMS Relay/Server.			
Reply Charging ID	С	This field is present in the CDR only if the MM is a reply-MM to an original MM.			
		The Reply-Charging ID is the Message ID of the original MM.			
Sender address	С	The address of the MMS User Agent as used in the MM1_retrieve.RES. This			
		parameter is present in the CDR regardless of address hiding.			
Recipient address	М	The address of the recipient MM User Agent of the MM.			
Access Correlation	Mo	A unique identifier delivered by the used access network domain of the			
		originator MMS User Agent.			
Message Reference	М	Location of the content of the MM to be retrieved as specified in the			
		MM1_retrieve.REQ.			
Original MM Content	<u>M</u>	This parameter contains a set of information elements related to the original			
		<u>MM</u>			
Content type	M	The content type of the MM content.			
Message size	<u>M</u> o	The total size of the original MM content.			
MM component list	Mo	The list of media components with volume size.			
Adapted MM Content	<u>C</u>	If the MM content is adapted prior to its retrieval, this parameter is present and			
		contains the resulting set of information elements related to the adapted MM			
Content type	<u>C</u>	The content type of the adapted MM content.			
Message size	<u>C</u> _o	The total size of the adapted MM content.			
MM component list	<u>C</u> _o	The list of media components with volume size of the adapted MM			
Message class	Co	The class of the message (e.g., personal, advertisement, information service)			
-		if specified in the MM1_retrieve.RES.			
Submission Time	М	The time at which the MM was submitted or forwarded as specified in the			
		MM1_retrieve.RES.			
Message size	Me	The total size of the MM content.			
Delivery report Requested	Mo	A request for delivery report as specified in the Delivery Report information			
		element in the MM1_retrieve.RES.			
Priority	C _o	The priority (importance) of the message if specified in the MM1_retrieve.RES.			
Read reply Requested	Co	A request for read-reply report if specified in the Read Reply information			
MM Status Code	Mo	The status code of the MM at the time when the CDR is generated.			
Status Text	Mo	I his field includes a more detailed technical status of the message at the point			
Derak Deerstüre		in une when the CDR is generated.			
Reply Deadline	C_{0}	In case of reply-charging the latest time of submission of a reply granted to the			
Poply Charging Size	C	In case of reply charging the maximum size of a reply MM grapted to the			
Reply Charging-Size	C_0	recipient as specified in the MM1, retrieve PES			
Duration Of Transmission	M	The time used for transmission of the MM between the User Agent and the			
	IVI _O	MMS Relay/Server			
Record Time Stamp	M-	Time of generation of the CDR			
Local Record Sequence Number	M-	Consecutive record number created by this node. The number is allocated			
	1010	sequentially including all CDR types.			
Serving network identity	Ma	SGSN PLMN Identifier (MCC and MNC) used during this record			
Record extensions	C_	A set of network/manufacturer specific extensions to the record. Conditioned			
	0	upon the existence of an extension.			

Table 4.15: Recipient MM1 Retrieve Response record (R1Rt-CDR)

End of Change in Clause 4.2.2.4

Change in Clause 5

•••

<unmodified text>

• • •

5.4 Adapted MM Content

This field contains a set of parameters including the Content type, the Message size and the MM component list of the adapted MM i.e. after the MM Content was adapted to the recipient terminal capabilities.

...

<unmodified text>

•••

5.254 MM component list

The MM component list is a set of subject and media components from type of media formats including the size of all elements in octets. For a complete description of media formats that may be supported by MMS, refer to IANA [13].

The MM Component list of a submitted MM might differ from the MM Component list of a retrieved MM if content adaptation is performed prior to its retrieval.

•••

<unmodified text>

•••

5.29 Original MM Content

This field contains a set of parameters including the Content type, the Message size and the MM component list of the original MM.

•••

<unmodified text>

•••

End of Change in Clause 5

Change in Clause 6

6 Charging Data Record Structure

6.1 ASN.1 definitions for CDR information

• • •

<unmodified text>

...

	MMR1RtRecord	::= SET	
	{		
	recordType		[0] CallEventRecordType,
	recipientMmsRSAddre	SS	 MMSRSAddress,
	messageID		[2] OCTET STRING,
	replyChargingID		[3] OCTET STRING OPTIONAL,
	senderAddress		[4] MMSAgentAddress OPTIONAL,
	recipientAddress		[5] MMSAgentAddress,
	accessCorrelation		[6] AccessCorrelation OPTIONAL,
			[7] ContentType,
	mmComponentType		[8] MMComponentType OPTIONAL,
	messageClass		[9] MessageClass OPTIONAL,
	submissionTime		[10] TimeStamp,
			[11] DataVolume OPTIONAL,
	deliveryReportRequest	ed	[12] BOOLEAN OPTIONAL,
	priority		[13] PriorityType OPTIONAL,
	readReplyRequested		[14] BOOLEAN OPTIONAL,
	mmStatusCode		[15] MMStatusCodeType OPTIONAL,
	statusText		[16] StatusTextType OPTIONAL,
	replyDeadline		[17] WaitTime OPTIONAL,
	replyChargingSize		[18] DataVolume OPTIONAL,
	durationOfTransmissio	n	[19] INTEGER OPTIONAL,
	timeOfExpiry		[20] WaitTime OPTIONAL,
	recordTimeStamp		[21] TimeStamp OPTIONAL,
	localSequenceNumber		[22] LocalSequenceNumber OPTIONAL,
	recordExtensions		[23] ManagementExtensions OPTIONAL
	messageReference		[24] OCTET STRING,
	servingNetworkIdentity	/	[25] PLMN-Id,
	originalMmContent		[26] OriginalMmContent,
	adaptedMmContent		[27] AdaptedMmContent OPTIONAL
1	}		

...

<unmodified text>

•••

-- COMMON DATA TYPES

```
AccessCorrelation ::= CHOICE
{
     circuitSwitched
                               CircuitSwitchedAccess,
                          [0]
     packetSwitched
                               PacketSwitchedAccess
                         [1]
AdaptedMmContent := SET
Ł
     contentType
                    [0] ContentType,
                    [1] DataVolume,
     messageSize
     mmComponentType [2] MMComponentType
}
                         ::= SEQUENCE
AttributesList
     -- Note: the values below are subject to WAP Forum ongoing standardization
     --
     messageID
                          [0] OCTET STRING,
                          [1] TimeStamp,
     DateAndTime
     senderAddress
                          [2] MMSRSAddress,
     subject
                          [3] OCTET STRING,
     messageSize
                         [4] DataVolume
                          [5] OCTET STRING,
     mmFlags
     mmState
                          [6] MMState
}
                    ::= SEQUENCE
ChargeInformation
{
     -- one of the two following parameters must be present
     chargedparty
                          [0] ChargedParty OPTIONAL,
                         [1] ChargeType OPTIONAL
     chargetype
}
ChargedParty
               ::= ENUMERATED
{
     sender
                               (0),
     recipient
                               (1),
     both
                               (2),
     neither
                               (3),
     notspecifiedbyVASP
                               (99)
}
ChargeType
                         ::= ENUMERATED
{
     postpaid
                               (0),
     pre-paid
                               (1)
}
CircuitSwitchedAccess ::= SEQUENCE
     mSCIdentifier
                               [0] MscNo,
     callReferenceNumber
                               [1] CallReference
}
ContentType
                          ::= OCTET STRING
DataVolume
                         ::= INTEGER
     -- The volume of data transfered in octets.
     --
DeltaSeconds
                    ::= OCTET STRING (SIZE(8))
MediaComponent
                    ::= SEQUENCE
     mediaType
                    [0] OCTET STRING,
                    [1] DataVolume
     mediaSize
}
MediaComponents
                    = SET OF MediaComponent
MessageClass
                    ::= ENUMERATED
{
     personal
                          (0),
```

```
(1),
     advertisement
     information-service
                         (2),
     auto
                          (3)
}
MMBoxStorageInformation ::= SET
{
                               [0] MMState,
     mmState
                               [1] OCTET STRING,
     mmFlag
     storeStatus
                               [2] StoreStatus,
     storeStatusText
                               [3] StatusTextType,
     storedMessageReference
                               [4] OCTET STRING
}
                         ::= SEQUENCE
MMComponentType
{
                    [0] SubjectComponent,
     subject
     media
                    [1] MediaComponents
}
                          ::= SEQUENCE
MMSAgentAddress
{
     -- usage of SEQUENCE instead of CHOICE allows several address types to be present at the same time
                    [0] OCTET STRING,
     eMail-address
     mSISDN
                    [1] MSISDN OPTIONAL,
                    [2] OCTET STRING OPTIONAL
     shortCode
}
MMSAgentAddresses ::= SET OF MMSAgentAddress
MMSRSAddress
                    ::= SEQUENCE
{
     -- usage of SEQUENCE instead of CHOICE allows both address types to be present at the same time
     ___
     domainName
                    [0] OCTET STRING OPTIONAL,
     iPAddress
                    [2] IPAddress OPTIONAL
}
MMState
               ::= ENUMERATED
{
     -- Note: the values below are subject to WAP Forum ongoing standardization
     draft
                    (0),
                    (1),
     sent
     new
                    (2),
     retrieved
                    (3),
                    (4)
     forwarded
}
MMStatusCodeType
                          ::= ENUMERATED
{
                               (0),
     retrieved
     forwarded
                               (1),
     expired
                               (2),
     rejected
                               (3).
     deferred
                               (4),
     unrecognised
                               (5),
                               (6),
    read
     deletedWithoutBeingRead
                               (7)
}
OriginalMmContent := SET
     contentType
                    [0] ContentType,
                   [1] DataVolume OPTIONAL,
    messageSize
     mmComponentType [2] MMComponentType OPTIONAL
}
PacketSwitchedAccess ::= SEQUENCE
     gSNAddress
                    [0] GSNAddress,
     chargingID
                    [1] ChargingID
}
PriorityType
               ::= ENUMERATED
{
```

```
low
                     (0),
     normal
                     (1),
     high
                     (2)
}
          ::= SEQUENCE
Quotas
     numberOfMessages
                           [0] INTEGER OPTIONAL,
     numberOfOctets
                           [1] INTEGER OPTIONAL
}
RequestStatusCodeType
                          ::= INTEGER
{
     ---
     -- cause codes 0 to 15 are defined in TS 32.205[8] as 'CauseForTerm'
     -- (cause for termination) and cause code 16 to 20 are defined
     -- in TS 32.215 [9] as 'CauseForRecClosing'
     normalRelease
                                     (0), -- ok
     abnormalRelease
                                     (4), -- error unspecified
     serviceDenied
                                     (30),
     messageFormatCorrupt
                                     (31),
     sendingAddressUnresolved
                                     (32),
     messageNotFound
                                     (33),
     networkProblem
                                     (34),
     contentNotAccepted
                                     (35),
     unsupportedMessage
                                     (36)
}
                   ::= OCTET STRING
StatusTextType
StoreStatus ::= INTEGER
{
     -- Note: the values below are subject to WAP Forum ongoing standardization
                                     (0),
     stored
     errorTransientFailure
                                     (1),
     errorTransientMailboxFull
                                     (2),
     errorTransientNetworkProblems
                                     (3),
     errorPermanentFailure
                                     (4),
     errorPermanentPermissionDenied (5),
     errorPermanentMessageFormat
                                    (6),
     errorPermanentMessageNotFound (7)
}
SubjectComponent
                     ::= SEQUENCE
     subjectType [0] OCTET STRING,
     subjectSize [1] DataVolume
}
Totals
          ::= SEQUENCE
{
                                [0] INTEGER OPTIONAL,
     numberOfMessages
     numberOfOctets
                                [1] INTEGER OPTIONAL
}
WaitTime
                ::= CHOICE
     http-date
                     [0]
                          TimeStamp,
     delta-seconds
                     [1]
                          DeltaSeconds
}
END
```

End of Change in Clause 6