3GPP TSG CT Meeting #28

CP-0500042

1st – 3rd June 2005. Quebec, CANADA.

Source:	**CT3**
Title:	**CRs to Rel-6 on Work Item "MBMS"**
Agenda item:	**9.8**
Document for:	**APPROVAL**

<u>**Introduction:**</u>

This document contains 6 CRs to Rel-6 on Work Item "MBMS" that have been agreed by TSG CT WG3, and are forwarded to TSG CT Plenary for approval.

WG_tdoc	Spec	CR	R	Cat	Title	Rel	C_Ver	Work Item
C3-050370	29.061	159	1	F	Correction to MBMS-2G-3G-Indicator AVP	Rel-6	6.4.0	MBMS
C3-050290	29.061	160		F	Unnecessary IMSI information	Rel-6	6.4.0	MBMS
C3-050292	29.061	161		F	MBMS-Session-Identity is optional	Rel-6	6.4.0	MBMS
C3-050305	29.061	162		F	Correction to charging information for MBMS	Rel-6	6.4.0	MBMS
C3-050311	29.061	165		F	Correction of MBMS-Session-Identity	Rel-6	6.4.0	MBMS
C3-050361	29.061	167		F	MBMS-Session-Duration is mandatory	Rel-6	6.4.0	MBMS

3GPP TSG-CT WG3 Meeting #36
Cancun, Mexico. 25th - 29th April 2005.

Tdoc ⌘ *C3-050290*

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **29.061** CR **160** | ⌘**rev** | **-** | ⌘ | Current version: | **6.4.0** | ⌘ |

*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: ⌘	Unnecessary IMSI information	
Source: ⌘	Nortel Networks, Vodafone	
Work item code: ⌘	MBMS	***Date:*** ⌘ 29/04/2005
Category: ⌘	**F**	***Release:*** ⌘ Rel-6

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:
Ph2 (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)
Rel-7 (Release 7)

Reason for change: ⌘	At MBMS session start the 3GPP-IMSI AVP is sent from the MBSC to the GGSN as part of the RAR command. This information is not needed. The broadcast/muticast of the MBMS service to the final users is achieve through the knowledge of the list of downstream nodes (SGSNs) and Service Areas applicable.
Summary of change: ⌘	Remove of the unnecessary 3GPP-IMSI in the RAR command
Consequences if not approved: ⌘	Unnecessary information sent to the GGSN that can create misunderstanding and consume bandwidth.

Clauses affected: ⌘	17.6.5

	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:
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.

<div align="center">*************   **FIRST MODIFIED SECTION**   *********</div>

17.6.5   Re-Auth-Request Command

The Re-Auth-Request (RAR) command, defined in IETF RFC3588 (DIAMETER BASE) [66], is indicated by the Command-Code set to 258 and the message flags' 'R' bit set.

The relevant AVPs that are of use for the Gmb interface are detailed in the ABNF description below. Other valid AVPs for this command are not used for Gmb purposes and should be ignored by the receiver or processed according to the relevant specifications.

The bold marked AVPs in the message format indicate new optional AVPs for Gmb, or modified existing AVPs.

Message Format:

```
    <RAR>  ::= < Diameter Header: 258, REQ, PXY >
               < Session-Id >
               { Origin-Host }
               { Origin-Realm }
               { Destination-Realm }
               { Destination-Host }
               { Auth-Application-Id }
               { Re-Auth-Request-Type }
               [ Called-Station-Id ]
               [ Framed-IP-Address]
               [ Framed-IPv6-Prefix ]
               [ Framed-Interface-Id ]
               [ MBMS-StartStop-Indication ]
             *[ MBMS-Service-Area ]
               [ 3GPP-GPRS-Negotiated-QoS-Profile ]
               [ 3GPP-IMSI]
               [ MBMS-Session-Duration ]
               [ MBMS-Service-Type ]
               [ MBMS-Service-Identity ]
               [ TMGI ]
             * [ 3GPP-SGSN-Address ]            ; broadcast case only
             * [ 3GPP-SGSN-IPv6-Address ]       ; broadcast case only
               [ MBMS-2G-3G-Indicator ]
               [ Origin-State-Id ]
             * [ Proxy-Info ]
             * [ Route-Record ]
```

The MBMS-StartStop-Indication AVP will indicate if the command is indicating a MBMS Session Start procedure or a MBMS Session Stop procedure.

For the MBMS Session Start procedure, RAR is sent by the BM-SC to the GGSN(s) that will deliver the MBMS service (e.g. in the multicast case these are the GGSNs that have previously registered for the corresponding multicast MBMS bearer service), when it is ready to send data. This is a request to activate all necessary bearer resources in the network for the transfer of MBMS data and to notify interested UEs of the imminent start of the transmission. For broadcast MBMS bearer services the RAR message contains either an IPv4 address or an IPv6 address for each participating SGSN.

For MBMS Session Stop procedure, RAR is sent by the BM-SC to the GGSN(s) when it considers the MBMS session to be terminated. The session is typically terminated when there is no more MBMS data expected to be transmitted for a sufficiently long period of time to justify a release of bearer plane resources in the network.

The MBMS session to be started/stopped is identified by the TMGI and the MBMS-Session-Identity.

The information of the MBMS-2G-3G-Indicator is passed from BM-SC transparently through GGSN to the SGSN(s) that are relevant for the actual MBMS bearer service.

According to 3GPP TS 23.246 [65], a specific MBMS bearer service is uniquely identified by its IP multicast address and an APN. For the MBMS Session Start procedure for broadcast MBMS bearer services, the following AVPs are included (either IPv4 or IPv6 address) to enable GGSN to relate incoming payload packets to the actual MBMS bearer service and distribute the packets to the downstream SGSNs related to this service:

- The Framed-IPv6-Prefix AVP contains the IPv6 prefix of the multicast address.

- The Framed-Interface-Id AVP contains the IPv6 interface identifier of the multicast address.

- The Framed-IP-Address AVP contains the IPv4 multicast address.

- The Called-Station-Id AVP contains the Access Point Name (APN) for which the MBMS bearer service is defined.

************* **END OF FIRST MODIFIED SECTION** **********

3GPP TSG-CT WG3 Meeting #36
Cancun, Mexico. 25th - 29th April 2005.

Tdoc ⌘ *C3-050361*

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **29.061** CR **167** | ⌘**rev** | **-** | ⌘ | Current version: | **6.4.0** | ⌘ |

*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: ⌘	MBMS-Session-Duration is mandatory	
Source: ⌘	Nortel Networks	
Work item code: ⌘	MBMS	***Date:*** ⌘ 29/04/2005

Category: ⌘ **F**	***Release:*** ⌘ Rel-6

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:
Ph2   (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)
Rel-7   (Release 7)

Reason for change: ⌘	According to the LS received from SA2 in C3-050342 SA2 is asking CT3 to consider the mandatory presence of the session duration information in the BM-Sc and therefore over the Gmb interface. The specificatgion is amended accordingly.
Summary of change: ⌘	Removal of the indication that the MBMS-Session-Duration AVP is optional within the Gmb interface.
Consequences if not approved: ⌘	Missalignment with SA2 requirements

Clauses affected: ⌘	17.7.7

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

Other comments: ⌘	

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.

************* FIRST MODIFIED SECTION **********

17.7.7 MBMS-Session-Duration AVP

The MBMS-Session-Duration AVP (AVP code 904) is of type Unsigned32, and indicates the estimated session duration (MBMS Service data transmission) if available. ~~This AVP is optional within the Gmb interface.~~ The time is indicated in seconds.

The highest value of this AVP (i.e. all 1's), is reserved to indicate an indefinite value to denote sessions that are expected to be always-on.

************* END OF FIRST MODIFIED SECTION **********

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **29.061** CR **165** | ⌘**rev** | **-** | ⌘ | Current version: | **6.4**[o5]**. 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 MBMS-Session-Identity
Source: ⌘	Ericsson
Work item code:⌘	MBMS ***Date:*** ⌘ 29/04/2005
Category: ⌘ **F**	***Release:*** ⌘ Rel-6

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:
Ph2   (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)
Rel-7   (Release 7)

Reason for change: ⌘	According to CR (N3-050225) agreed at CN3#35, the MBMS-Session-Identity shall be introduced in the Session Start (RAR) message. The CR is not correctly implemented in 29.061 v6.2.0.
Summary of change:⌘	MBMS-Service-Identity is replaced by MBMS-Session-Identity in the RAR message
Consequences if ⌘ ***not approved:***	Incorrect message definition

Clauses affected: ⌘	17.6.5

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

| ***Other comments:*** ⌘ | |

How to create CRs using this form:
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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.

17.6.5   Re-Auth-Request Command

The Re-Auth-Request (RAR) command, defined in IETF RFC3588 (DIAMETER BASE) [66], is indicated by the Command-Code set to 258 and the message flags' 'R' bit set.

The relevant AVPs that are of use for the Gmb interface are detailed in the ABNF description below. Other valid AVPs for this command are not used for Gmb purposes and should be ignored by the receiver or processed according to the relevant specifications.

The bold marked AVPs in the message format indicate new optional AVPs for Gmb, or modified existing AVPs.

Message Format:

```
<RAR>  ::= < Diameter Header: 258, REQ, PXY >
           < Session-Id >
           { Origin-Host }
           { Origin-Realm }
           { Destination-Realm }
           { Destination-Host }
           { Auth-Application-Id }
           { Re-Auth-Request-Type }
           [ Called-Station-Id ]
           [ Framed-IP-Address]
           [ Framed-IPv6-Prefix ]
           [ Framed-Interface-Id ]
           [ MBMS-StartStop-Indication ]
          *[ MBMS-Service-Area ]
           [ 3GPP-GPRS-Negotiated-QoS-Profile ]
           [ 3GPP-IMSI]
           [ MBMS-Session-Duration ]
           [ MBMS-Service-Type ]
           [ MBMS-ServiceSession-Identity ]
           [ TMGI ]
         * [ 3GPP-SGSN-Address ]            ; broadcast case only
         * [ 3GPP-SGSN-IPv6-Address ]       ; broadcast case only
           [ MBMS-2G-3G-Indicator ]
           [ Origin-State-Id ]
         * [ Proxy-Info ]
         * [ Route-Record ]
```

The MBMS-StartStop-Indication AVP will indicate if the command is indicating a MBMS Session Start procedure or a MBMS Session Stop procedure.

For the MBMS Session Start procedure, RAR is sent by the BM-SC to the GGSN(s) that will deliver the MBMS service (e.g. in the multicast case these are the GGSNs that have previously registered for the corresponding multicast MBMS bearer service), when it is ready to send data. This is a request to activate all necessary bearer resources in the network for the transfer of MBMS data and to notify interested UEs of the imminent start of the transmission. For broadcast MBMS bearer services the RAR message contains either an IPv4 address or an IPv6 address for each participating SGSN.

For MBMS Session Stop procedure, RAR is sent by the BM-SC to the GGSN(s) when it considers the MBMS session to be terminated. The session is typically terminated when there is no more MBMS data expected to be transmitted for a sufficiently long period of time to justify a release of bearer plane resources in the network.

The MBMS session to be started/stopped is identified by the TMGI and the MBMS-Session-Identity.

The information of the MBMS-2G-3G-Indicator is passed from BM-SC transparently through GGSN to the SGSN(s) that are relevant for the actual MBMS bearer service.

According to 3GPP TS 23.246 [65], a specific MBMS bearer service is uniquely identified by its IP multicast address and an APN. For the MBMS Session Start procedure for broadcast MBMS bearer services, the following AVPs are included (either IPv4 or IPv6 address) to enable GGSN to relate incoming payload packets to the actual MBMS bearer service and distribute the packets to the downstream SGSNs related to this service:

- The Framed-IPv6-Prefix AVP contains the IPv6 prefix of the multicast address.

- The Framed-Interface-Id AVP contains the IPv6 interface identifier of the multicast address.

- The Framed-IP-Address AVP contains the IPv4 multicast address.

- The Called-Station-Id AVP contains the Access Point Name (APN) for which the MBMS bearer service is defined.

End of modifications

<div style="text-align:right">CR-Form-v7.1</div>

CHANGE REQUEST

⌘	**29.061**	CR	**162**	⌘	**rev**[o4]	**-**	⌘	Current version:	**6.4.0**	⌘

*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 to charging information for MBMS	
Source: ⌘	Vodafone	
Work item code:⌘	MBMS	*Date:* ⌘ 12/04/2005
Category: ⌘	**F**	*Release:* ⌘ Rel-6

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:
Ph2 (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)
Rel-7 (Release 7)

Reason for change: ⌘	Extra information elements like IMEI-SV, RAT Type, User Location Information, MS Time Zone, were added to be passed on the Gi interface for charging purposes. However, subscriber charging for MBMS is performed in the BM-SC and therefore SA2 decided in CR 23.246-145r1 (S2-050888) that the same information needs to be passed to the BM-SC during the MBMS Authorization procedure. Therefore, in order to properly perform charging for MBMS services in the BM-SC, this information needs also be transferred on the Gmb interface.
Summary of change:⌘	Adds parameter transfer of IMEI-SV, RAT Type, User Location Information, MS Time Zone from GGSN to BM-SC over the Gmb interface.
Consequences if not approved: ⌘	Specific information will be missing from the BM-SC that is responsible for the service level charging according to the MBMS stage 2.

Clauses affected: ⌘	17.6.1, 17.7

	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:
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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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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.

*************************** FIRST MODIFIED CLAUSE ******************************

17.6.1   AAR Command

The AAR command, defined in Diameter NASREQ[67], is indicated by the Command-Code field set to 265 and the 'R' bit set in the Command Flags field. It, is sent by the GGSN to the BM-SC to request user authorization (authorize the activating UE to receive Data) or to register the GGSN for a particular multicast MBMS bearer service.

The relevant AVPs that are of use for the Gmb interface are detailed in the ABNF description below. Other valid AVPs for this command are not used for Gmb purposes and should be ignored by the receiver or processed according to the relevant specifications.

The bold marked AVPs in the message format indicate new optional AVPs for Gmb, or modified existing AVPs.

Message Format:

```
<AA-Request> ::= < Diameter Header: 265, REQ, PXY >
                    < Session-Id >
                    { Auth-Application-Id }
                    { Origin-Host }
                    { Origin-Realm }
                    { Destination-Realm }
                    { Auth-Request-Type }
                    [ Destination-Host ]
                    [ Called-Station-Id ]
                    [ Calling-Station-Id ]
                    [ Framed-IP-Address]
                    [ Framed-IPv6-Prefix ]
                    [ Framed-Interface-Id ]
                  * [ Proxy-Info ]
                  * [ Route-Record ]
                    [ 3GPP-GPRS-Negotiated-QoS-Profile ]
                    [ 3GPP-IMSI]

                    [ RAI ]
                    [ 3GPP-IMEISV ]
                    [ 3GPP-RAT-Type ]
                    [ 3GPP-User-Location-Info ]
                    [ 3GPP-MS-TimeZone ]
```

The GGSN shall allocate a new Session-Id for each time an AAR command is sent.

A request for user authorisation for an MBMS bearer service is indicated by the presence of the MSISDN within the Calling-Station-Id AVP and the 3GPP-IMSI. Otherwise the request is for the GGSN to be authorised (i.e. registered) to receive the MBMS bearer service.

The Framed-IPv6-Prefix AVP contains the IPv6 prefix of the multicast address identifying the MBMS bearer service.

The Framed-Interface-Id AVP contains the IPv6 interface identifier of the multicast address identifying the MBMS bearer service.

The Framed-IP-Address AVP contains the IPv4 multicast address identifying the MBMS bearer service.

The Called-Station-Id AVP contains the Access Point Name (APN) on which the MBMS bearer service authorisation request was received.

*************************** NEXT MODIFIED SECTION ******************************

17.7   Gmb specific AVPs

Table 10 describes the Gmb specific Diameter AVPs. The Vendor-Id header of all Gmb specific AVPs defined in the present specification shall be set to 3GPP (10415).

The Gmb specific AVPs require to be supported to be compliant to the present specification. All AVPs in table 10 are mandatory within Gmb interface unless otherwise stated.

Table 10: Gmb specific AVPs

Attribute Name	AVP Code	Section defined	Value Type	AVP Flag rules				May Encr.
				Must	May	Should not	Must not	
TMGI	900	17.7.2	OctectString	M,V	P			Y
Required-MBMS-Bearer-Capabilities	901	17.7.3	UTF8String	M,V	P			Y
MBMS-StartStop-Indication	902	17.7.5	Enumerated	M,V	P			Y
MBMS-Service-Area	903	17.7.6	OctectString	M,V	P			Y
MBMS-Session-Duration	904	17.7.7	Unsigned32	M,V	P			Y
3GPP-GPRS-Negotiated-QoS-Profile	5	16.4.7 (see Note)	UTF8String	M,V	P			Y
3GPP-IMSI	1	16.4.7 (see Note)	UTF8String	M.V	P			Y
Alternative-APN	905	17.7.8	UTF8String	M,V	P			Y
MBMS-Service-Type	906	17.7.9	Enumerated	M,V	P			Y
3GPP-SGSN-Address	6	16.4.7 (see note)	UTF8String	M, V	P			Y
3GPP-SGSN-IPv6-Address	15	16.4.7 (see note)	UTF8String	M, V	P			Y
MBMS-2G-3G-Indicator	907	17.7.10	Enumerated	M, V	P			Y
MBMS-Session-Identity	908	17.7.11	OctetString	M.V	P			Y
RAI	909	17.7.12	UTF8String	M, V	P			Y
3GPP-IMEISV	20	16.4.7 (see Note)	OctetString	M,V	P			Y
3GPP-RAT-Type	21	16.4.7	OctetString	M,V	P			Y

		(see Note)						
3GPP-User-Location-Info	22	16.4.7 (see Note)	OctetString	M,V	P			Y
3GPP-MS-TimeZone	23	16.4.7 (see Note)	OctetString	M,V	P			Y
NOTE: The use of Radius VSA as a Diameter vendor AVP is described in Diameter NASREQ [67] and the P flag may be set.								

Table 11 lists the set of Diameter AVPs that are not Gmb specific, but are reused from other Diameter applications by the Gmb interface. A reference is done to the specifications where the AVPs are specified. This set of AVPs requires to be supported to be compliant to the present specification.

Table 11: Gmb reused AVPs from other Diameter applications.

AVP Name	Reference
Called-Station-Id	draft-ietf-aaa-diameter-nasreq-17.txt [67]
Calling-Station-Id	draft-ietf-aaa-diameter-nasreq-17.txt [67]
Framed-Interface-Id	draft-ietf-aaa-diameter-nasreq-17.txt [67]
Framed-IP-Address	draft-ietf-aaa-diameter-nasreq-17.txt [67]
Framed-IPv6-Prefix	draft-ietf-aaa-diameter-nasreq-17.txt [67]

NOTE: Diameter Base AVPs are not listed as support of them is mandated by IETF RFC 3588 [66].

**************************** END OF MODIFICATIONS ************************************

CR-Form-v7.1

CHANGE REQUEST

⌘ **29.061** CR **161** ⌘**rev** **-** ⌘ Current version: **6.4.0** ⌘

*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: ⌘	MBMS-Session-Identity is optional	
Source: ⌘	Nortel Networks, Ericsson	
Work item code:⌘	MBMS	***Date:*** ⌘ 29/04/2005

Category: ⌘ **F**

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.

Release: ⌘ Rel-6

Use <u>one</u> of the following releases:
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Rel-6 *(Release 6)*
Rel-7 *(Release 7)*

Reason for change: ⌘	In LS C3-050260 and others related it is indicated that session identity is optional. CT3 must incorporate this decision. The ABNF of all AVPs for Gmb are marked as optional, but all of those AVPs are needed to be compliant to the Gmb interface unless otherwise stated. This was implicit during all the discussions but was never made explicit. In fact, there are some others AVPs whose presence in the Gmb interface is optional and thus, they have been marked as such (e.g. MBMS-Session-Duration). In the same way, now this optionallity of the MBMS-Session-Identiy is needed
Summary of change:⌘	General explicit indication that only when said so, the Gmb AVP can be considered optional within the Gmb interface. Indication that the MBMS-Session-Identity AVP is optional within the Gmb interface.
Consequences if not approved: ⌘	Missalignment with MBMS radio, and other related MBMS specifications

Clauses affected: ⌘	17.6, 17.7.11	

		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:

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.

****************   **FIRST MODIFIED SECTION**   *********

17.6   Gmb Messages

This clause defines the Gmb interface Diameter messages.

The relevant AVPs that are of use for the Gmb interface are detailed in this clause. Other Diameter NASREQ AVPs, even if their AVP flag rules is marked with "M", are not required for being compliant with the current specification.

All Gmb specific AVPs for Gmb are needed to be compliant to the Gmb interface unless otherwise stated.

****************   **END OF FIRST MODIFIED SECTION**   *********

****************   **NEXT MODIFIED SECTION**   *********

17.7.11 MBMS-Session-Identity AVP

The MBMS-Session-Identity AVP (AVP code 908) is of type OctetString. Its length is one octet. It is allocated by the BM-SC. Together with TMGI it identifies a transmission of a specific MBMS session. The initial-transmission and subsequent retransmissions of the MBMS session will use the same values of these parameters. This AVP is optional within the Gmb interface.

****************   **END OF MODIFIED SECTION**   *********

Tdoc ⌘*C3-050370*

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **29.061** CR **159** | ⌘**rev** | **1** | ⌘ | Current version: | **6.4.0** | ⌘ |

*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 to MBMS-2G-3G-Indicator AVP
Source:	⌘	Nortel Networks, Vodafone

Work item code:	⌘	MBMS	**Date:** ⌘	29/04/2005

Category:	⌘	**F**	**Release:** ⌘	Rel-6

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:
Ph2 (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)
Rel-7 (Release 7)

Reason for change:	⌘	The definition of the MBMS 2G/3G indicator AVP is correct and aligned with thestage 2, however the definition of its enumerated values is not aligned with the given definition.
Summary of change:	⌘	The enumerated values definition is changed to match the definition of the AVP in alignment with stage 2 (TS 23.246) definition
Consequences if not approved:	⌘	The AVP referes to the distinction on the coverage area and not on the content which is not necessarily different for the 2G and 3G coverage areas. The enumerated values definition is incorrect and lead to misunderstanding

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Clauses affected:	⌘	17.7.10

		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:
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.

****************   **FIRST MODIFIED SECTION**   **********

17.7.10 MBMS-2G-3G-Indicator AVP

The MBMS-2G-3G-Indicator AVP (AVP code 907) is of type Enumerated. It indicates whether the MBMS bearer service will be delivered in 2G- only, 3G- only of both coverage areas. The following values are supported:

2G (0)

The MBMS bearer service shall~~will~~ only be ~~used to~~ delivered in 2G only coverage areas. ~~content.~~

3G (1)

The MBMS bearer service shall~~will~~ only be ~~used to~~ delivered in 3G only coverage areas. ~~content~~

2G-AND-3G (2)

The MBMS bearer service shall~~will~~ be ~~used to~~ delivered both in 2G and 3G coverage areas. ~~content~~

****************   **END OF FIRST MODIFIED SECTION**   **********