CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **29.061** CR **165** | ⌘**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 of MBMS-Session-Identity	
Source: ⌘	Ericsson	
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: ⌘	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

	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.

Start of modifications

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