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**Source:** SA1  
**Title:** Various CRs to 22.146 (Rel-6)  
**Document for:** Approval  
**Agenda Item:** 7.1.3

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Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-25	SP-040504	22.146	044	-	Rel-6	F	Rel-6 removal of notification requirement while receiveing PS or CS services	6.5.0	6.6.0	S1-040706
SP-25	SP-040504	22.146	045	-	Rel-6	F	Key management priority for MBMS services	6.5.0	6.6.0	S1-040720

CR-Form-v7
<b>CHANGE REQUEST</b>
⌘ <b>22.146 CR 044</b> ⌘ rev <b>-</b> ⌘ Current version: <b>6.5.0</b> ⌘

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>	⌘ R-6 removal of notification requirement while receiving PS or CS services		
<b>Source:</b>	⌘ SA1 (Telecom Italia)		
<b>Work item code:</b>	⌘ MBMS <span style="float: right;"><b>Date:</b> ⌘ 28/06/2004</span>		
<b>Category:</b>	⌘ <b>F</b> <span style="float: right;"><b>Release:</b> ⌘ Rel-6</span> Use <u>one</u> of the following categories: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 50%;"> <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)                 </td> <td style="width: 50%;">                     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)                 </td> </tr> </table> Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	<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)	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)
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<b>Reason for change:</b>	⌘ Requirement could not implemented in GERAN within the Release 6 timeframe
<b>Summary of change:</b>	⌘ The requirement is removed while accessing trough GERAN
<b>Consequences if not approved:</b>	⌘ Unconsistent specification. The requirement will remain in the TS 22.146 even if not implemented in stage 3 GERAN

<b>Clauses affected:</b>	⌘ 6																								
<b>Other specs affected:</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Y</td> <td style="width: 10%; text-align: center;">N</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Other core specifications</td> <td>⌘</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>O&amp;M Specifications</td> <td></td> <td></td> </tr> </table>		Y	N					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Test specifications				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	O&M Specifications		
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<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.

\*\*\*\*\* first modified section\*\*\*\*\*

## 5.1.2 User requirements for MBMS

### - User mobility

The user shall be able to continue receiving multicast services throughout the multicast service area in which the service is provided. For example, in case of handover and presuming that a certain multicast service is offered in the target cell, it should be possible for the user to continue the session in the target cell. It is possible that data loss will occur due to user mobility.

### - User selectivity

The user shall be able to discover what multicast services are available at the user's current location and outside of the current location. The user shall be able to select between different multicast services provided to the user and can receive simultaneously more than one MBMS service.

The user may be able to define service preference for reception. A priority procedure may be implemented to allow the user to select between simultaneous broadcast/multicast services e.g. while receiving commercial broadcast service a new multicast service may interrupt this.

While receiving PS or CS services [via UTRAN](#), it shall be possible for the user to receive notification of MBMS multicast sessions.

While receiving one or more multicast services it shall be possible for the user to be informed about incoming voice calls or the availability of other MBMS services.

Dependent on terminal capabilities, it shall be possible for the user to participate in other services, while simultaneously participating in MBMS services. For example the user can originate or receive a call or send and receive messages whilst receiving MBMS video content.

### - Multicast subscription groups and multicast groups

The subscriber shall be able to subscribe to or unsubscribe from a multicast subscription group. (The subscription mechanism is outside the scope of this TS.)

The user shall be able to join a multicast group only if he is a member of the applicable multicast subscription group. The user shall be able to leave a multicast group if he is a member of that group.

CR-Form-v7
<b>CHANGE REQUEST</b>
⌘ <b>22.146 CR 045</b> ⌘ rev <b>-</b> ⌘ Current version: <b>6.5.0</b> ⌘

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

<b>Title:</b>	⌘ Key management priority for MBMS services		
<b>Source:</b>	⌘ SA1		
<b>Work item code:</b>	⌘ MBMS	<b>Date:</b>	⌘ 28/06/2004
<b>Category:</b>	⌘ <b>F</b> 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="http://www.3gpp.org/Specs/tr21/900">TR 21.900</a> .	<b>Release:</b>	⌘ Rel-6 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>	⌘ Presently it is unclear if key management for MBMS services is required on ME.
<b>Summary of change:</b>	⌘ Explicit requirement about key management is added, indicating clearly the priority of the mechanisms.
<b>Consequences if not approved:</b>	⌘ Unclear requirement and non homogeneous implementation of the MBMS key management

<b>Clauses affected:</b>	⌘ 6								
<b>Other specs affected:</b>	<table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Y</td> <td style="border: 1px solid black; padding: 2px;">N</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">X</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"></td> <td style="border: 1px solid black; padding: 2px;">X</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"></td> <td style="border: 1px solid black; padding: 2px;">X</td> </tr> </table> Other core specifications ⌘ 33.220 Test specifications O&M Specifications	Y	N	X			X		X
Y	N								
X									
	X								
	X								
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## 6 Security

In multicast mode it shall be possible to ensure that only those users who are entitled to receive a specific multicast service may do so. It should be possible to choose whether a given multicast service is to be delivered with or without ensured group privacy.

If a terminal supports MBMS, then it shall support UICC based key management and all the function and interfaces required for it. ME key management can be optionally supported. If the UICC is capable of MBMS key management, ME key management shall not be activated.