

## CHANGE REQUEST

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22.140 CR 015
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rev
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Current version:
5.0.0
✎

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ✎ symbols.

**Proposed change affects:** ✎ (U)SIM  ME/UE  Radio Access Network  Core Network

|                        |  |                 |  |
|------------------------|--|-----------------|--|
| <b>Title:</b>          | ✎ Automatic bearer selection for MMS delivery and submission   |                 |  |
| <b>Source:</b>         | ✎ T-Mobile, Vodafone Group, Orange   |                 |  |
| <b>Work item code:</b> | ✎ MMS enhancements   | <b>Date:</b>    | ✎ 12 03 2002   |
| <b>Category:</b>       | ✎ <b>B</b>   | <b>Release:</b> | ✎ REL-5  |
|                        | Use <u>one</u> of the following categories:<br><b>F</b> (essential correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (Addition of feature),<br><b>C</b> (Functional modification of feature)<br><b>D</b> (Editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP TR 21.900. |                 | Use <u>one</u> of the following releases:<br>2 (GSM Phase 2)<br>R96 (Release 1996)<br>R97 (Release 1997)<br>R98 (Release 1998)<br>R99 (Release 1999)<br>REL-4 (Release 4)<br>REL-5 (Release 5) |

|                                      |   |
|--------------------------------------|---|
| <b>Reason for change:</b>            | ✎ It is desirable that the terminal allows for a user-defined list of bearers (GPRS, CSD, SMS, possibly also USSD) for delivery and submission of MM. It is also desirable that the switch to a less preferred bearer, in case the most preferred is not available, takes place without user intervention. For this reason a new requirement is introduced in the stage 1 description of MMS. Network operators and users will benefit from the usage of the most suitable bearer for the delivery and submission of MMs. |
| <b>Summary of change:</b>            | ✎ A new requirement has been added in paragraph 5.2 regarding the preferred bearer selection. It is required that the MMS capable terminal supporting a number of different bearers use preferentially one of those for submission and delivery of MMS. Moreover the switch between the two bearers shall not require user intervention such as change of configuration of the terminal.  |
| <b>Consequences if not approved:</b> | ✎ Severe degradation of service may be expected especially in roaming situations. The user will have to change the configuration parameters in the terminal whenever the selected bearer is not available in the network for submission and delivery of a MM.   |

|                              |  |   |        |
|------------------------------|--|---|--------|
| <b>Clauses affected:</b>     | ✎ 5.2  |   |        |
| <b>Other specs Affected:</b> | <input checked="" type="checkbox"/> Other core specifications<br><input type="checkbox"/> Test specifications<br><input type="checkbox"/> O&M Specifications | ✎ | 23.140 |
| <b>Other comments:</b>       | ✎  |   |        |

## 5.2 Multimedia message delivery and submission

### - **Submission mechanism**

The MMS shall support multimedia messages or messages elements to be submitted from the sender's terminal.

### - **Push Mechanism**

The MMS shall be able to support a request for multimedia messages or messages elements to be automatically delivered to the recipient's terminal.

### - **Pull Mechanism**

The MMS shall be able to support a request for multimedia messages or messages elements to be delivered to the recipient's terminal on request by the recipient.

Note: Push and pull delivery mechanisms could be identical; the criteria which decide on the type of mechanism (push / pull) are either described in the User Services Profile or out of the scope of this specification.

### - **Concurrency**

The MMS shall be able to support MM delivery to and from the user's terminal not be restricted during other active services (subject to the capabilities of the terminal and the network).

### - **Streaming**

The MMS shall be able to support streaming for MM delivery from the MMS system to the terminal.

Support for streaming for MM upload from the terminal to the MMS system will be considered for future releases.

### - **Preferred Bearer**

It shall be possible to define a list of precedence for bearers in the configuration parameters for delivery and submission of MM (e.g. GPRS, CSD, SMS and possibly USSD). The terminal shall be able to support automatic bearer selection (i.e. without user intervention) based on the order of precedence defined in a list of bearers on the USIM. The user shall be able to enable or disable automatic bearer selection. When disabled, manual bearer selection shall be available from the list of bearers.