

CHANGE REQUEST

✎ **22.129 CR 22** ✎ ev - ✎ Current version: **4.3.0** ✎

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

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|------------------------|--|-----------------|---|
| Title: | ✎ Bearer selection criteria of calls in a multicall | | |
| Source: | ✎ Siemens AG | | |
| Work item code: | ✎ Multicall | Date: | ✎ 11.09.01 |
| Category: | ✎ A | Release: | ✎ Rel-4 |
| | Use <u>one</u> of the following categories: | | Use <u>one</u> of the following releases: |
| | F (correction) | | 2 (GSM Phase 2) |
| | A (corresponds to a correction in an earlier release) | | R96 (Release 1996) |
| | B (addition of feature), | | R97 (Release 1997) |
| | C (functional modification of feature) | | R98 (Release 1998) |
| | D (editorial modification) | | R99 (Release 1999) |
| | Detailed explanations of the above categories can be found in 3GPP TR 21.900 . | | REL-4 (Release 4) |
| | | | REL-5 (Release 5) |

Reason for change: ✎ The current version of TS 22.129 specifies selection criteria for the network which shall be used in case of handover of a multicall when it is not be possible to handover all bearers belonging to the multicall:

5.4 Handover of a Multicall

...

It shall be possible to handover all the calls in a multicall configuration.. If the target cell is not able to accommodate all the calls in a multicall configuration, then the calls that are handed over shall be selected in following order:

- i. *The call of teleservice emergency call*
- ii. *The call of teleservice telephony*
- iii. *The call of any other type*

Calls that cannot be handed over will be released.

If no single call can be selected according to the above criteria, handover shall be rejected.

CN1 was not able to agree on a solution implementing these requirements in the stage 2 specification of the handover procedures (TS 23.009), neither by discussion, nor by a formal vote.

In a new attempt to get a consistent set of specifications, it is proposed:

- to relax the requirements in TS 22.129 so that only teleservice emergency calls are explicitly requested to be always handed over; and

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| | <ul style="list-style-type: none"> - to specify in TS 23.009 that during RAB assignment and relocation request a 3G_MSC-A supporting multical call shall assign priorities at least to bearers used for emergency calls. <p>This proposal minimizes the impact on existing implementations of eMLPP, subscription based priority, and RANAP priority handling, as emergency calls should be assigned high(est) priority anyway, in any existing implementation. At the same time</p> <ul style="list-style-type: none"> - it allows to fulfil the requirements in all cases of handover, inter- and intra-system, MSC-controlled and RNC-controlled; and - it allows a consistent priority handling for all procedures related to the allocation and retention of bearers. <p>Finally, it leaves the network the option to use additional criteria in case the selection has to be made between calls with the same RANAP priority level. (This applies e.g. to the case when the network does not assign priorities to calls other than emergency calls. Note, however, that as a rule these additional criteria cannot be taken into account in case of an RNC-controlled handover and therefore may interfere with the aim of a consistent priority handling.)</p> |
| Summary of change: ⚡ | Only the call of teleservice "emergency call" is specified explicitly as having highest priority for handover. The calls of any other type shall be selected according to operator preferences. |
| Consequences if not approved: ⚡ | Inconsistency between the requirements (TS 22.129) and the stage 2 specification (TS 23.009). |

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|-------------------------------------|--|-------------------------------------|---------------------------|---|--------|--------------------------|---------------------|--|--|--------------------------|--------------------|--|--|
| Clauses affected: ⚡ | 5.4 | | | | | | | | | | | | |
| Other specs affected: | <table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td>Other core specifications</td> <td>⚡</td> <td>23.009</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&M Specifications</td> <td></td> <td></td> </tr> </table> | <input checked="" type="checkbox"/> | Other core specifications | ⚡ | 23.009 | <input type="checkbox"/> | Test specifications | | | <input type="checkbox"/> | O&M Specifications | | |
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| <input type="checkbox"/> | Test specifications | | | | | | | | | | | | |
| <input type="checkbox"/> | O&M Specifications | | | | | | | | | | | | |
| Other comments: ⚡ | This CR is a precondition for the acceptance of the CR to TS 23.009. | | | | | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.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.

5.4 Handover of a Multicall

The handover event can trigger changes to individual calls in any multicall scenario.

It shall be possible to handover all the calls in a multicall configuration.. If the target cell is not able to accommodate all the calls in a multicall configuration, then the calls that are handed over shall be selected in following order:

- i. The call of teleservice emergency call
- ~~ii. The call of teleservice telephony~~
- ~~iii.~~ The calls of any other type according to operator preferences.

Calls that cannot be handed over will be released.

If no single call can be selected according to the above criteria, handover shall be rejected.

A change in the availability of suitable radio resources may also occur for other reasons in addition to handover.