

**TSG-RAN Meeting #22**  
**Maui, USA, 09-12 December 2003**

**RP-030631**

**Title: Access Stratum capability indication: 25.331 Rel-6 CR**

**Source: TSG-RAN WG2**

**Agenda item: 8.9**

| Spec   | CR   | Rev | Phase | Subject                              | Cat | Version-Current | Version-New | Doc-2nd-Level | Workitem |
|--------|------|-----|-------|--------------------------------------|-----|-----------------|-------------|---------------|----------|
| 25.331 | 2134 | -   | Rel-6 | Access Stratum capability indication | F   | 5.6.0           | 6.0.0       | R2-032597     | TEI6     |

CR-Form-v7

## CHANGE REQUEST

# 25.331 CR 2134 # rev - # Current version: 5.6.0 #

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

|                        |  |                 |   |
|------------------------|--|-----------------|---|
| <b>Title:</b>          | # AS capability indication   |                 |   |
| <b>Source:</b>         | # RAN WG2  |                 |   |
| <b>Work item code:</b> | # TEI6   | <b>Date:</b>    | # 18/11/2003                              |
| <b>Category:</b>       | # <b>F</b>   | <b>Release:</b> | # Rel-6                                   |
|                        | 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 <a href="#">TR 21.900</a> . | Rel-4           | (Release 4)                               |
|                        |  | Rel-5           | (Release 5)                               |
|                        |  | Rel-6           | (Release 6)                               |

|                                      |  |
|--------------------------------------|--|
| <b>Reason for change:</b>            | # Access Stratum Release indication needs to be updated to reflect Rel-6 capability, for when Rel-6 version of the specification is created.             |
| <b>Summary of change:</b>            | # "Updated Access Stratum Release Indicator" IE where appropriate in sections 10.x.x.x and 11.   |
| <b>Consequences if not approved:</b> | # The UE is not able to indicate the release it supports from the version of the specification. UTRAN will not be able to tell if the UE supports Rel-6. |

|                              |   |                     |   |   |   |   |   |   |   |                           |   |
|------------------------------|---|---------------------|---|---|---|---|---|---|---|---------------------------|---|
| <b>Clauses affected:</b>     | # 10.2.39, 10.3.3.42, 10.3.3.42o, 11.3  |                     |   |   |   |   |   |   |   |                           |   |
| <b>Other specs affected:</b> | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> | Y                   | N | # | X | # | X | # | X | Other core specifications | # |
| Y                            | N   |                     |   |   |   |   |   |   |   |                           |   |
| #                            | X   |                     |   |   |   |   |   |   |   |                           |   |
| #                            | X   |                     |   |   |   |   |   |   |   |                           |   |
| #                            | X   |                     |   |   |   |   |   |   |   |                           |   |
|                              |   | Test specifications | # |   |   |   |   |   |   |                           |   |
|                              |   | O&M Specifications  | # |   |   |   |   |   |   |                           |   |
| <b>Other comments:</b>       | # This CR used the contents of 25.331-v560, because there is no Rel-6 version of this specification as of yet.  |                     |   |   |   |   |   |   |   |                           |   |

### 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.

### 10.2.39 RRC CONNECTION REQUEST

RRC Connection Request is the first message transmitted by the UE when setting up an RRC Connection to the network.

RLC-SAP: TM

Logical channel: CCCH

Direction: UE → UTRAN

| Information Element/Group name              | Need | Multi | Type and reference                                    | Semantics description   | Version |
|---|------|-------|---|---|---------|
| Message Type                                | MP   |       | Message Type  |   |         |
| <b>Radio Bearer IEs</b>                     |      |       |   |   |         |
| Predefined configuration status information | MP   |       | Boolean   | True indicates the UE has all pre-configurations stored with the same value tag as broadcast in the cell in which the RRC connection establishment is initiated | REL-5   |
| <b>UE information elements</b>              |      |       |   |   |         |
| Initial UE identity                         | MP   |       | Initial UE identity<br>10.3.3.15                      |   |         |
| Establishment cause                         | MP   |       | Establishment cause<br>10.3.3.11                      |   |         |
| Protocol error indicator                    | MD   |       | Protocol error indicator<br>10.3.3.27                 | Default value is FALSE  |         |
| >UE Specific Behaviour Information 1 idle   | OP   |       | UE Specific Behaviour Information 1 idle<br>10.3.3.51 | This IE shall not be included in this version of the protocol   |         |
| <b>Measurement information elements</b>     |      |       |   |   |         |
| Measured results on RACH                    | OP   |       | Measured results on RACH<br>10.3.7.45                 |   |         |
| Access stratum release indicator            | MP   |       | Enumerated( REL-4,                                    | Absence of the IE implies R99. The IE also indicates the release of the RRC transfer syntax supported by the UE<br>143 spare values are needed                  | REL-4   |
|   |      |       | REL-5)  |   | REL-5   |
|   |      |       | REL-6   |   | REL-6   |

## 10.3.3.42 UE radio access capability

| Information Element/Group name                        | Need                               | Multi  | Type and reference                                 | Semantics description   | Version                        |
|---|------------------------------------|--------|--|---|--------------------------------|
| Access stratum release indicator                      | MP                                 |        | Enumerated(R99)                                    | Indicates the release of the UE according to [35]. The IE also indicates the release of the RRC transfer syntax supported by the UE.. |                                |
|   | CV-not_rrc_connectionSetupComplete |        | Enumerated(REL-4, REL-5),<br><a href="#">REL-6</a> | 143 spare values are needed.  | REL-4                          |
|   |                                    |        |  |   | REL-5<br><a href="#">REL-6</a> |
| DL capability with simultaneous HS-DSCH configuration | OP                                 |        | Enumerated(32kbps, 64kbps, 128kbps, 384kbps)       |   | REL-5                          |
| PDCP capability                                       | MP                                 |        | PDCP capability 10.3.3.24                          |   |                                |
| RLC capability  | MP                                 |        | RLC capability 10.3.3.34                           |   |                                |
| Transport channel capability                          | MP                                 |        | Transport channel capability 10.3.3.40             |   |                                |
| RF capability FDD                                     | OP                                 |        | RF capability FDD 10.3.3.33                        |   |                                |
| RF capability TDD                                     | OP                                 |        | RF capability TDD 10.3.3.33b                       | One "TDD RF capability" entity shall be included for every Chip rate capability supported.  |                                |
|   |                                    | 1 to 2 |  |   | REL-4                          |
| Physical channel capability                           | MP                                 |        | Physical channel capability 10.3.3.25              |   |                                |
| UE multi-mode/multi-RAT capability                    | MP                                 |        | UE multi-mode/multi-RAT capability 10.3.3.41       |   |                                |
| Security capability                                   | MP                                 |        | Security capability 10.3.3.37                      |   |                                |
| UE positioning capability                             | MP                                 |        | UE positioning capability 10.3.3.45                |   |                                |
| Measurement capability                                | CH-fdd_req_susp                    |        | Measurement capability 10.3.3.21                   |   |                                |

| Condition                              | Explanation   |
|--|---|
| <i>fdd_req_sup</i>                     | The IE is mandatory present if the IE "Multi-mode capability" has the value "FDD" or "FDD/TDD" and a FDD capability update has been requested in a previous message. Otherwise this field is not needed in the message. |
| <i>not_rrc_connectionSetupComplete</i> | The IE is not needed in the RRC CONNECTION SETUP COMPLETE message. Otherwise the IE is mandatory present.   |

10.3.3.42o UE radio access capability compressed

| Information Element/Group name            | Need | Multi | Type and reference                  | Semantics description      | Version               |
|---|------|-------|-------------------------------------|----------------------------|-----------------------|
| Access stratum release indicator          | MP   |       | Enumerated(R99, REL-4, REL-5),      | 13 spare values are needed | REL-5                 |
|   |      |       | <a href="#">REL-6</a>               |                            | <a href="#">REL-6</a> |
| Total AM RLC buffer size exceeds 10 kByte | MP   |       | BOOLEAN                             |                            | REL-5                 |
| RF capability compressed                  | MP   |       | RF capability compressed 10.3.3.32a |                            | REL-5                 |

## 11.3 Information element definitions

### <cut section>

```
AccessStratumReleaseIndicator ::= ENUMERATED {  
| rel-4, rel-5, spare14rel-6, spare13,  
  spare12, spare11, spare10, spare9, spare8,  
  spare7, spare6, spare5, spare4, spare3,  
  spare2, spare1 }
```