TSG-RAN Meeting #22   **RP-030721**
Maui, USA, 09-12 December 2003

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

Source: **Nokia**

Agenda item: **8.9**

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2134	1	Rel-6	Access Stratum capability indication	F	5.6.0	6.0.0	-	TEI6

CR-Form-v7

CHANGE REQUEST

| ⌘ | **25.331** | CR | **2134** | ⌘ rev | **1** | ⌘ | 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 **X** Radio Access Network **X** Core Network ☐

Title:	⌘	AS capability indication
Source:	⌘	RAN WG2
Work item code: ⌘	TEI6	*Date:* ⌘ 10/12/2003

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 <u>TR 21.900</u>.

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)

Reason for change:	⌘	Access Stratum Release indication needs to be updated to reflect Rel-6 capability, for when Rel-6 version of the specification is created.
Summary of change: ⌘		"Updated Access Stratum Release Indicator" IE where appropriate in sections 10.x.x.x and 11.
Consequences if not approved:	⌘	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.

Clauses affected:	⌘	10.2.39, 10.3.3.42, 10.3.3.42o, 11.3

		Y	N	
Other specs affected:	⌘		X	Other core specifications ⌘
			X	Test specifications
		X		O&M Specifications

Other comments:	⌘	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		
Radio Bearer IEs					
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
UE information elements					
Initial UE identity	MP		Initial UE identity 10.3.3.15		
Establishment cause	MP		Establishment cause 10.3.3.11		
Protocol error indicator	MD		Protocol error indicator 10.3.3.27	Default value is FALSE	
>UE Specific Behaviour Information 1 idle	OP		UE Specific Behaviour Information 1 idle 10.3.3.51	This IE shall not be included in this version of the protocol	
Measurement information elements					
Measured results on RACH	OP		Measured results on RACH 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	REL-4
			REL-5),		REL-5
			REL-6)	143 spare values are needed	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_co nnectionSe tupComple te*		Enumerated(REL-4,	14~~3~~ spare values are needed.	REL-4
			REL-5)~~,~~		REL-5
			REL-6)		REL-6
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_su p*		Measuremen t capability 10.3.3.21		

Condition	Explanation
fdd_req_sup	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.
not_rrc_connectionSetupComplete	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
			REL-6)		REL-6
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

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