Tdoc NP-010267

3GPP TSG CN Plenary Meeting #12, Stockholm, Sweden 13th - 15th June 2001

Source: TSG CN WG 1

Title: CRs to R99 and Rel-4 on Work Items TEI and TEI4 towards 24.008

Agenda item: 7.22

Document for: APPROVAL

Introduction:

This document contains **2** CRs on **R99 and Rel-4** Work Items "**TEI**" and "**TEI4**", that have been agreed by **TSG CN WG1**, and are forwarded to TSG CN Plenary meeting #12 for approval.

Spec	CR	Rev	Doc-2nd-	Phas	Subject	Cat	Version-	Workitem
			Level	е			Current	
24.008	425		N1-010903		Correct coding errors in the MS Radio Access Capability IE	F	3.7.0	TEI
24.008	423	1	N1-010909	Rel-4	Correct coding errors in the MS Radio Access Capability IE	F	4.2.0	TEI4

3GPP TSG-CN WG1 Meeting #17 Puerto Rico, 14th - 18th May 2001

Tdoc N1-010<u>909</u> revised of N1-010839

CHANGE REQUEST			
×	24.008 CR CR-423 # rev 1 # Current version: 4.2.0 #		
For <u>HELP</u> on	using this form, see bottom of this page or look at the pop-up text over the % symbols.		
Proposed chang	e affects: % (U)SIM ME/UE X Radio Access Network X Core Network X		
Title:	光 Correct coding errors in the MS Radio Access Capability IE		
Source:	器 Ericsson L.M.		
Work item code:	第 TEI4 Date: 第 2001-05-15		
Category:	₩ F REL-4		
Reason for chan	This CR is proposing editorial corrections of the Mobile Station Radio Access		
	Capability Information Element. Furthermore the second table of the <i>Mobile Station Radio Access Capability</i> Information Element (Table 10.5.146/TS 24.008) has been accidentally removed from TS 24.008 version 4.2.0. For this reason a table 10.5.146/TS 24.008 must be introduced, in addition some corrections of syntactical errors in the CSN.1 definition are needed.		
Summary of cha	nge:		
Consequences it not approved:	# Information elements cannot be implemented.		
Clauses affected	:		
Other specs affected:	# Other core specifications # Test specifications O&M Specifications		
Other comments	: X		

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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

Table 10.5.146/3GPP TS 24.008 : *Mobile Station Radio Access Capability* Information Element

```
< MS Radio Access capability IE > ::=
<MS Radio Access capability IEI: 00100100>
< Length of MS RA capability: <octet>> -- length in octets of MS RA capability value part and spare
<MS RA capability value part : < MS RA capability value part struct >>
<spare bits>**; -- may be used for future enhancements
<MS RA capability value part struct >::= --recursive structure allows any number of Access
technologies
< Access Technology Type: bit (4) >
< Access capabilities : <Access capabilities struct>>
\{ 0 \mid 1 < MS \text{ RA capability value part struct} \} ;
< Access capabilities struct > ::=
   < Length : bit (7) > -- length in bits of Content and spare bits
   <Access capabilities : <Content>>
   <spare bits>**; -- expands to the indicated length
            -- may be used for future enhancements
< Content > ::=
   < RF Power Capability : bit (3) >
   { 0 | 1 < A5 bits : < A5 bits > } ___- zero means that the same values apply for parameters as in
the immediately
   - preceeding Access capabilities field within this IE
                                     -- The presence of the A5 bits is mandatory in the 1<sup>st</sup> Access
capabilities struct within this IE.
   < ES IND : bit >
   < PS : bit >
   < VGCS : bit >
   < VBS : bit >
   \{0 \mid 1 < \text{Multislot capability} : \text{Multislot capability struct} > \} -- zero means that the
    -- same values for multislot parameters as given in an earlier Access capabilities field within this IE
apply also here
-- Additions in release 99
   \{0 \mid 1 < 8PSK \text{ Power Capability} : bit(2) > \} -- '1' also means 8PSK modulation capability in
uplink.
   < COMPACT Interference Measurement Capability : bit >
   < Revision Level Indicator : bit >
   < UMTS FDD Radio Access Technology Capability : bit >
                                                                                -- 3G RAT
   < UMTS 3.84 Mcps TDD Radio Access Technology Capability : bit >
                                                                               -- 3G RAT
   < CDMA 2000 Radio Access Technology Capability : bit >
                                                                                -- 3G RAT
   < UMTS 1.28 Mcps TDD Radio Access Technology Capability<sup>o</sup>: bit >; -- 3G RAT
       -- error: struct too short, assume features do not exist
   -- error: struct too long, ignore data and jump to next Access technology
```

Table 10.5.146/3GPP TS 24.008 (continued): *Mobile Station Radio Access Capability* Information Element

< N	ultislot capability struct > ::=
	$0 \mid 1 < \mathbf{HSCSD}$ multislot class : bit $(5) > $
	0 1 < GPRS multislot class : bit (5) > < GPRS Extended Dynamic Allocation Capability : bit > }
	$0 \mid 1 < SMS_VALUE : bit (4) > < SM_VALUE : bit (4) > $;
A	dditions in release 99
	0 1 < ECSD multislot class : bit (5) > }
	$0 \mid 1 < \text{EGPRS multislot class}$: bit (5) $> < \text{EGPRS Extended Dynamic Allocation}$ —Capability: bit $> \}^{\circ}$;
	$0 \mid 1$ < DTM GPRS Multi Slot Sub-Class: bit(2) >
	- <mac :="" bit="" mode="" support=""></mac>
	-{0 1- <dtm :="" bit(2)="" egprs="" multi="" slot="" sub-class=""> } };</dtm>
	- error: struct too short, assume features do not exist
-	- citor. struct too short, assume reatures do not exist
-Δ5	bits> ::= < A5/1 : bit> <a5 2="" :="" bit=""> <a5 3="" :="" bit=""> <a5 4="" :="" bit=""> <a5 5="" :="" bit=""> <a5 6="" :="" bit=""> <a5 7="" :="" bit="">; bits for circuit</a5></a5></a5></a5></a5></a5>
	e ciphering algorithms
11100	o opnomy algorithms
Acc	ess Technology Type
	field indicates the access technology type to be associated with the following access capabilities.
Bits	
43	
00	
00	
00	
0 0	
<u>0 1</u> 0 1	
0 1	
	1 1 GSM 850
10	
	ther values are treated as unknown by the receiver.
7.111	and value are treated as antihown by the receiver.
RF	Power Capability
	field is coded as radio capability in Classmark 3 for the indicated band: it contains the binary coding of he power
clas	s associated (see GSM 05.05 paragraph 4.1 output power and paragraph 4.1.1 Mobile Station).
	K Power Capability
	field is coded according to the definition in GSM 05.05. The presence of this field indicates also 8PSK
mod	ulation capability in uplink.
A E I	
A5/	
	encryption algorithm A5/1 not available encryption algorithm A5/1 available
A5/2	
	encryption algorithm A5/2 not available
	encryption algorithm A5/2 available
A5/	
	encryption algorithm A5/3 not available
1	encryption algorithm A5/3 available
A5/4	
	encryption algorithm A5/4 not available
	encryption algorithm A5/4 available
A5/	
	encryption algorithm A5/5 not available
	encryption algorithm A5/5 available
A5/	
	encryption algorithm A5/6 not available
	encryption algorithm A5/6 available
A5/	encryption algorithm A5/7 not available
	encryption algorithm A5/7 not available
1 '	υτοιγραστι αιχοπαπιπ <i>ποι τ</i> αναπασι <u>σ</u>

ES	ND – (Controlled early Classmark Sending)
0	controlled early Classmark Sending" option is not implemented
1	controlled early Classmark Sending" option is implemented

Table 10.5.146/3GPP TS 24.008 (concluded): *Mobile Station Radio Access Capability* Information Element

PS - (Pseudo Synchronisation)

- 0 PS capability not present
- 1 PS capability present

VGCS – (Voice Group Call Service)

- 0 no VGCS capability or no notifications wanted
- 1 VGCS capability and notifications wanted.

VBS - (Voice Broadcast Service)

- 0 no VBS capability or no notifications wanted
- 1 VBS capability and notifications wanted

HSCSD Multi Slot Class

The Multi Slot Class field is coded as the binary representation of the multislot class defined in TS 3GPP TS 05.02. Range 1 to 18, all other values are reserved.

GPRS Multi Slot Class

The GPRS Multi Slot Class field is coded as the binary representation of the multislot class defined in TS 3GPP TS 05.02.

-- Additions in release 99

ECSD Multi Slot Class

The presence of this field indicates ECSD capability. Whether the MS is capable of 8-PSK modulation in uplink is indicated by the presence of 8-PSK Power Capability field. The Multi Slot Class field is coded as the binary representation of the multislot class defined in TS 3GPP TS 05.02.

Range 1 to 18, all other values are reserved.

EGPRS Multi Slot Class

The presence of this field indicates EGPRS capability. Whether the MS is capable of 8-PSK modulation in uplink is indicated by the presence of 8-PSK Power Capability field. The EGPRS Multi Slot Class field is coded as the binary representation of the multislot class defined in TS 3GPP TS 05.02.

GPRS Extended Dynamic Allocation Capability

- Extended Dynamic Allocation Capability for GPRS is not implemented
- 1 Extended Dynamic Allocation Capability for GPRS is implemented

EGPRS Extended Dynamic Allocation Capability

- 0 Extended Dynamic Allocation Capability for EGPRS is not implemented
- 1 Extended Dynamic Allocation Capability for EGPRS is implemented

SMS_VALUE (Switch-Measure-Switch) (4 bit field)

The SMS field indicates the time needed for the mobile station to switch from one radio channel to another, perform a neighbor cell power measurement, and the switch from that radio channel to another radio channel. Bits

```
4 3 2 1
0 0 0 0 1/4 timeslot (~144 microseconds)
0 0 0 1 2/4 timeslot (~288 microseconds)
0 0 1 0 3/4 timeslot (~433 microseconds)
. . .
1 1 1 1 16/4 timeslot (~2307 microseconds)
(SM_VALUE) Switch-Measure (4 bit field)
```

The SM field indicates the time needed for the mobile station to switch from one radio channel to another and perform a neighbour cell power measurement.

DTM GPRS Multi Slot Sub-Class (2 bit field)

This field indicates the GPRS DTM capabilities of the MS. The DTM GPRS Multi Slot Sub-Class is independent from the Multi Slot Capabilities field.

Bits

2 1

- 0 0 Sub-Class 1 supported
- 0 1 Sub-Class 5 supported
- 1 0 Sub-Class 9 supported
- 1 1 Reserved for future extension. If received, the network shall interpret this as '00'

DTM EGPRS Multi Slot Sub-Class (2 bit field)

This field indicates the EGPRS DTM capabilities of the MS. The DTM EGPRS Multi Slot Sub-Class is independent from the Multi Slot Capabilities field. This field shall be included only if the mobile station supports EGPRS DTM. This field is coded as the DTM GPRS Multislot Sub-Class field.

MAC Mode Support (1 bit field)

This field indicates whether the MS supports Dynamic and Fixed Allocation or only supports Exclusive Allocation Bits

1

- 0 Dynamic and Fixed Allocation not supported
- 1 Dynamic and Fixed allocation supported

COMPACT Interference Measurement Capability

- 0 COMPACT Interference Measurement Capability is not implemented
- 1 COMPACT Interference Measurement Capability is implemented

Revision Level Indicator(1 bit field)

Bit

- 0 The ME is Release '98 or older
- 1 The ME is Release '99 onwards

UMTS FDD Radio Access Technology Capability (1 bit field)

Bit

- 0 UMTS FDD not supported
- 1 UMTS FDD supported

UMTS 3.84 Mcps TDD Radio Access Technology Capability (1 bit field)

Bit

- 0 UMTS 3.84 Mcps TDD not supported
- 1 UMTS 3.84 Mcps TDD supported

CDMA 2000 Radio Access Technology Capability (1 bit field)

Bit

- 0 CDMA2000 not supported
- 1 CDMA2000 supported

UMTS 1.28 Mcps TDD Radio Access Technology Capability (1 bit field)

Bit

- 0 UMTS 1.28 Mcps TDD not supported
- 1 UMTS 1.28 Mcps TDD supported

3GPP TSG-CN WG1 Meeting #17 Puerto Rico, 14th - 18th May 2001

	CR-Form-v3		
CHANGE REQUEST			
ж	24.008 CR CR-425 # rev - # Current version: 3.7.0 #		
For <u>HELP</u> on	using this form, see bottom of this page or look at the pop-up text over the ¥ symbols.		
Proposed change	e affects: % (U)SIM ME/UE X Radio Access Network X Core Network X		
Title:	Correct coding errors in the MS Radio Access Capability IE		
Source:	f Ericsson L.M.		
Work item code:	€ TEI Date: ¥ 2001-05-15		
Category:	₹ F Release: ¥ R99		
	Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Use one 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)		
Reason for chang	This CR is proposing editorial corrections of the Mobile Station Radio Access Capability Information Element.		
Summary of chan	ge:		
Consequences if not approved:	# Information elements cannot be implemented.		
Clauses affected:	¥ 10.5.5.12a		
Other specs affected:	# Other core specifications # Test specifications O&M Specifications		
Other comments:	×		

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- 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.

10.5.5.12a MS Radio Access capability

The purpose of the MS RA capability information element is to provide the radio part of the network with information concerning radio aspects of the mobile station. The contents might affect the manner in which the network handles the operation of the mobile station.

The MS RA capability is a type 4 information element, , with a maximum length of 52 octets. The value part of a MS RA capability information element is coded a shown table 10.5.146/3GPP TS 24.008.

- SEMANTIC RULE: Among the three Access Type Technologies GSM 900-P, GSM 900-E and GSM 900-R only one shall be present.
- The MS shall indicate supported Access Technology Types. e.g. [450, 480, 900, 1800, UMTS] or [850, 1900] MHz bands during a single MM procedure.
- Error handling: If a received Access Technology Type is unknown to the receiver, it shall ignore all the corresponding fields;
- If within a known Access Technology Type a receiver recognizes an unknown field it shall ignore it.
- See more details about error handling of MS radio access capability in 3GPP TS GSM 08.18.
- Due to shared radio frequency channel numbers between 1800 and 1900, the mobile should provide the relevant MS Radio Access capability for either 1800 band OR 1900 band, not both.

NOTE: The MS should not add spare bits following the <Content> field for the Access capabilities of an Access Technology Type, i.e. the MS should encode the <Length> field of the < Access capabilities struct > as the length in bits of <Content> only.

Table 10.5.146/3GPP TS 24.008 : Mobile Station Radio Access Capability Information Element

```
< MS Radio Access capability IE > ::=
<MS Radio Access capability IEI: 00100100 >
< Length of MS RA capability: <octet>> -- length in octets of MS RA capability value part and spare
<MS RA capability value part : < MS RA capability value part struct >>
<spare bits>**; -- may be used for future enhancements
<MS RA capability value part struct >::= --recursive structure allows any number of Access
technologies
< Access Technology Type: bit (4) >
< Access capabilities : <Access capabilities struct> >
\{ 0 \mid 1 < MS \text{ RA capability value part struct} \} ;
< Access capabilities struct > ::=
   < Length : bit (7) > -- length in bits of Content and spare bits
   <Access capabilities : <Content>>
   <spare bits>**; -- expands to the indicated length
            -- may be used for future enhancements
< Content > ::=
   < RF Power Capability : bit (3) >
    { 0 | 1 < A5 bits : < A5 bits > > } ___-- zero means that the same values apply for parameters as in
the immediately
    - preceeding Access capabilities field within this IE
                                    ___-- The presence of the A5 bits is mandatory in the 1<sup>st</sup> Access
capabilities struct within this IE.
   < ES IND : bit >
   <PS: bit >
   < VGCS : bit >
   < VBS : bit >
   \{0 \mid 1 < \text{Multislot capability} : \text{Multislot capability struct} > \} -- zero means that the
    -- same values for multislot parameters as given in an earlier Access capabilities field within this IE
apply also here
-- Additions in release 99
   \{0 \mid 1 < \text{8PSK Power Capability} : \text{bit}(2) > \} -- '1' also means 8PSK modulation capability in
uplink.
   < COMPACT Interference Measurement Capability : bit >
   < Revision Level Indicator : bit >
   < UMTS FDD Radio Access Technology Capability : bit > -- 3G RAT
   < UMTS TDD Radio Access Technology Capability : bit > -- 3G RAT
   < CDMA 2000 Radio Access Technology Capability : bit >; -- 3G RAT
        -- error: struct too short, assume features do not exist
   -- error: struct too long, ignore data and jump to next Access technology
```

Table 10.5.146/3GPP TS 24.008 (continued): Mobile Station Radio Access Capability

```
Information Element
< Multislot capability struct > ::=
   \{ 0 \mid 1 < \textbf{HSCSD multislot class} : bit (5) > \}
     0 \mid 1 < GPRS \text{ multislot class}: bit (5) > < GPRS \text{ Extended Dynamic Allocation Capability}: bit > 
     0 \mid 1 < SMS_VALUE : bit (4) > < SM_VALUE : bit (4) > 
-- Additions in release 99
     0 \mid 1 < ECSD  multislot class : bit (5) > 
     0 \mid 1 < EGPRS multislot class: bit (5) > < EGPRS Extended Dynamic Allocation —Capability: bit > }
     0 | 1 < DTM GPRS Multi Slot Sub-Class: bit(2)>
          <MAC Mode Support : bit>
       ---{0 \mid 1 < DTM EGPRS Multi Slot Sub-Class : bit(2)>}};
     error: struct too short, assume features do not exist
<A5 bits> ::= < A5/1 : bit> <A5/2 : bit> <A5/3 : bit> <A5/4 : bit> <A5/5 : bit> <A5/6 : bit> <A5/7 : bit>; -- bits for circuit
mode ciphering algorithms
Access Technology Type
This field indicates the access technology type to be associated with the following access capabilities.
4321
0000
          GSM P
0001
          GSM E --note that GSM E covers GSM P
          GSM R --note that GSM R covers GSM E and GSM P
0010
0011
          GSM 1800
0100
          GSM 1900
0101
          GSM 450
0110
          GSM 480
0111
          GSM 850
All other values are treated as unknown by the receiver.
RF Power Capability
This field is coded as radio capability in Classmark 3 for the indicated band: it contains the binary coding of he power
class associated (see GSM 05.05 paragraph 4.1 output power and paragraph 4.1.1 Mobile Station).
8PSK Power Capability
This field is coded according to the definition in GSM 05.05. The presence of this field indicates also 8PSK
modulation capability in uplink.
A5/1
0 encryption algorithm A5/1 not available
```

1 encryption algorithm A5/1 available

A5/2

- 0 encryption algorithm A5/2 not available
- 1 encryption algorithm A5/2 available

A5/3

- 0 encryption algorithm A5/3 not available
- encryption algorithm A5/3 available

A5/4

- 0 encryption algorithm A5/4 not available
- 1 encryption algorithm A5/4 available

A5/5

- 0 encryption algorithm A5/5 not available
- 1 encryption algorithm A5/5 available

A5/6

- 0 encryption algorithm A5/6 not available
- 1 encryption algorithm A5/6 available

A5/7

- 0 encryption algorithm A5/7 not available
- 1 encryption algorithm A5/7 available

ES IND - (Controlled early Classmark Sending)

0 "controlled early Classmark Sending" option is not implemented

1 "controlled early Classmark Sending" option is implemented

Table 10.5.146/3GPP TS 24.008 (concluded): *Mobile Station Radio Access Capability*Information Element

PS – (Pseudo Synchronisation)

- 0 PS capability not present
- 1 PS capability present

VGCS - (Voice Group Call Service)

- 0 no VGCS capability or no notifications wanted
- 1 VGCS capability and notifications wanted.

VBS - (Voice Broadcast Service)

- 0 no VBS capability or no notifications wanted
- 1 VBS capability and notifications wanted

HSCSD Multi Slot Class

The Multi Slot Class field is coded as the binary representation of the multislot class defined in 3GPP TS GSM 05.02.

Range 1 to 18, all other values are reserved.

GPRS Multi Slot Class

The GPRS Multi Slot Class field is coded as the binary representation of the multislot class defined in 3GPP TS GSM 05.02.

ECSD Multi Slot Class

The presence of this field indicates ECSD capability. Whether the MS is capable of 8-PSK modulation in uplink is indicated by the presence of 8-PSK Power Capability field. The Multi Slot Class field is coded as the binary representation of the multislot class defined in 3GPP TS GSM 05.02.

Range 1 to 18, all other values are reserved.

EGPRS Multi Slot Class

The presence of this field indicates EGPRS capability. Whether the MS is capable of 8-PSK modulation in uplink is indicated by the presence of 8-PSK Power Capability field. The EGPRS Multi Slot Class field is coded as the binary representation of the multislot class defined in 3GPP TS GSM 05.02.

GPRS Extended Dynamic Allocation Capability

- 0 Extended Dynamic Allocation Capability for GPRS is not implemented
- 1 Extended Dynamic Allocation Capability for GPRS is implemented

EGPRS Extended Dynamic Allocation Capability

- 0 Extended Dynamic Allocation Capability for EGPRS is not implemented
- 1 Extended Dynamic Allocation Capability for EGPRS is implemented

SMS_VALUE (Switch-Measure-Switch) (4 bit field)

The SMS field indicates the time needed for the mobile station to switch from one radio channel to another, perform a neighbor cell power measurement, and the switch from that radio channel to another radio channel. Bits

4321

0 0 0 0 1/4 timeslot (~144 microseconds)

0 0 0 1 2/4 timeslot (~288 microseconds)

0 0 1 0 3/4 timeslot (~433 microseconds)

. . .

1 1 1 1 1 16/4 timeslot (~2307 microseconds)

(SM_VALUE) Switch-Measure (4 bit field)

The SM field indicates the time needed for the mobile station to switch from one radio channel to another and perform a neighbour cell power measurement.

Bits 4 3 2 1

0 0 0 0 1/4 timeslot (~144 microseconds)

0 0 0 1 2/4 timeslot (~288 microseconds)

0 0 1 0 3/4 timeslot (~433 microseconds)

1 1 1 1 1 16/4 timeslot (~2307 microseconds)

DTM GPRS Multi Slot Sub-Class (2 bit field)

This field indicates the GPRS DTM capabilities of the MS. The GPRS DTM Multi Slot Sub-Class is independent from the Multi Slot Capabilities field.

Bits

2 1

- 0 0 Sub-Class 1 supported
- 0 1 Sub-Class 5 supported
- 1 0 Sub-Class 9 supported
- 1 1 Reserved for future extension. If received, the network shall interpret this as '00'

DTM EGPRS Multi Slot Sub-Class (2 bit field)

This field indicates the EGPRS DTM capabilities of the MS. The DTM EGPRS Multi Slot Sub-Class is independent from the Multi Slot Capabilities field. This field shall be included only if the mobile station supports EGPRS DTM. This field is coded as the DTM GPRS Multislot Sub-Class field.

MAC Mode Support (1 bit field)

This field indicates whether the MS supports Dynamic and Fixed Allocation or only supports Exclusive Allocation Bits

1

- 0 Dynamic and Fixed Allocation not supported
- Dynamic and Fixed allocation supported

COMPACT Interference Measurement Capability

- 0 COMPACT Interference Measurement Capability is not implemented
- 1 COMPACT Interference Measurement Capability is implemented

Revision Level Indicator(1 bit field)

Bit

- 0 The ME is Release '98 or older
- 1 The ME is Release '99 onwards

UMTS FDD Radio Access Technology Capability (1 bit field)

Bit

- 0 UMTS FDD not supported
- 1 UMTS FDD supported

UMTS TDD Radio Access Technology Capability (1 bit field)

Bit

- 0 UMTS TDD not supported
- 1 UMTS TDD supported

CDMA 2000 Radio Access Technology Capability (1 bit field)

Bit

- 0 CDMA2000 not supported
- 1 CDMA2000 supported