3GPP TSG CN Plenary Meeting #13 Beijing, China, 19^{th –}21st September 2001

Source: TSG CN WG 1

Title: CR to R99 (with mirror CRs) on Work Item EDGE towards 24.008

Agenda item: 7.5

Document for: APPROVAL

Introduction:

This document contains 3 CRs on R99 (2 are mirror CRs) to Work Item "EDGE", that have been agreed by TSG CN WG1, and are forwarded to TSG CN Plenary meeting #13 for approval.

Spec	CR	Rev	Doc-2nd-	Phase	Subject	Cat	Version-	Workitem
			Level				Current	
24.008	463		N1-011254	R99	Clarification of 8-PSK power class coding	F	3.8.0	EDGE
24.008	464		N1-011255	Rel-4	Clarification of 8-PSK power class coding	Α	4.3.0	EDGE
24.008	465		N1-011272	Rel-5	Clarification of 8-PSK power class coding	А	5.0.0	EDGE

3GPP TSG-CN1 Meeting #19 Helsinki, Finland, 27.-31. August 2001

CHANGE REQUEST												
*	24.	800	CR 463	H	ev	-	ж	Current vers	ion:	3.8.0	Ж	
For HELP on using this form, see bottom of this page or look at the pop-up text over the #										the ₩ syr	nbols.	
Proposed	l change	affects: ३	€ (U)SIM	ME/U	EX	Rad	io Ac	ccess Networl	k X	Core Ne	etwork X	
Title:	ж	Clarifica	tion of 8-PSK po	wer clas	s codi	ng						
Source:	ж	Ericssor	ı L.M.									
Work iten	n code: ૠ	EDGE						Date: ♯	200	01-08-28		
Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) R9 D (editorial modification) R9 Detailed explanations of the above categories can								_	the for (GSN) (Release (Releas		eases:	
Reason fo	or change	e: The	e coding of 8-PS	K modul	ation r	nower	clas	ses is ambigu	เดเเร	The power	er	
		clas	The coding of 8-PSK modulation power classes is ambiguous. The power classes (3GPP TS 05.05) are labelled: E1, E2 and E3. The encoding of the enumerated type is not defined.									
Summary	of chang	Ra	Definitions of the encoding are included in the MS claasmark 3 and the MS Radio Access Capability information elements. Editorial alignments of the definitions of the relevant parameters.									
Conseque approved			ere is a risk of inc ween different v		ole end	coding	of the	he 8-PSK mo	dulati	on power	calsses	
Clauses a	affected:	10.	5.1.7 and 10.5.5	.12a								
Other speaffected:	ecs	-	Other core speci Test specification O&M Specification	ns	3	g						
Other cor	mments:	info oth Ra free	Note that two separate power class parameters are used in the MS Classmark 3 information element, one for the group of (GSM400, GSM850, GSM900) and the other one for the group of (GSM1800, GSM1900) frequency bands. In the MS Radio Access Capability information element, a single parameter is used for all frequency bands. This does not seem consistent. If a differentiation of the power classes is possible for ECSD, the same should be possible for ECPRS.									

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.
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- downloaded from the 3GPP server under $\underline{\text{ftp://ftp.3gpp.org/specs/}}$ 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.

-- Skip to Table 10.5.1.7/3GPP TS 24.008 (continued) --

Table 10.5.1.7/3GPP TS 24.008 (continued): MS Classmark 3 information element

MS based E-OTD

Bit 4

- 0 MS based E-OTD not supported
- 1 MS based E-OTD supported

MS assisted GPS

Bit 3

- 0 MS assisted GPS not supported
- 1 MS assisted GPS supported

MS based GPS

Bit

- 0 MS based GPS not supported
- 1 MS based GPS supported

MS conventional GPS

Bit

- 0 conventional GPS not supported
- 1 conventional GPS supported

EDGE Multi Slot class (5 bit field)

In case the EDGE MS supports the use of multiple timeslots and the number of supported time slots is different from number of time slots supported for GMSK then the EDGE Multi Slot class field is included and is coded as the binary representation of the multislot class defined in 3GPP TS GSM 05.02.

Modulation Capability

Modulation Capability field indicates the supported modulation scheme by MS in addition to GMSK Bit 1

- 0 8-PSK supported for downlink reception only
- 1 8-PSK supported for uplink transmission and downlink reception

EDGE RF Power Capability 1 (2 bit field)

If 8-PSK <u>modulation</u> is supported for both uplink and downlink, the **-EDGE RF Power Capability 1** field indicates the radio capability for <u>8-PSK modulation</u> in <u>GSM400</u>, <u>GSM850 or </u>GSM900.

The radio capability contains the binary coding of the EDGE power class(see GSMß05.05).

EDGE RF Power Capability 2 (2 bit field)

If 8-PSK <u>modulation</u> is supported for both uplink and downlink, the **-EDGE RF Power Capability 2** field indicates the radio capability for <u>8-PSK modulation in DCS1800</u> or PCS1900 if supported, and is not included otherwise.

The radio capability respective EDGE RF Power Capability 1 and EDGE RF Power Capability 2 fields contains the following binary coding of the EDGE 8-PSK modulation power class (see GSM-3GPP TS 05.05):

Bits	2 1	
	0 0	Reserved
	0 1	Power class E1
	10	Power class E2
	4.4	DI F0

-- Next modified section --

Skip to Table 10.5.146/3GPP TS 24.008 (continued)

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) > \} 
   \{ 0 \mid 1 < ECSD \text{ multislot class} : bit (5) > \}
   \{0 \mid 1 < EGPRS \text{ multislot class} : bit (5) > < EGPRS \text{ Extended Dynamic Allocation} \quad 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)> \} \};
<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.
Bits
4321
0000
          GSM P
0.001
          GSM E --note that GSM E covers GSM P
0010
          GSM R --note that GSM R covers GSM E and GSM P
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
modulation capability in uplink.
If 8-PSK modulation is supported for uplink, this field indicates the radio capability for 8-PSK modulation. The
following coding is used (see 3GPP TS 05.05):
       21
       0 0
              Reserved
       0 1
              Power class E1
              Power class E2
       10
       <u>11</u>
              Power class E3
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
- 1 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

-- End of CR --

3GPP TSG-CN1 Meeting #19 Helsinki, Finland, 27.-31. August 2001

									CR-Form-v4		
CHANGE REQUEST											
*	24.0	80	CR 464	ж	ev	- #	Current vers	4.3.0	¥		
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the # symbols.											
Proposed of	change af	ffects: #	(U)SIM	ME/UE	X	Radio A	ccess Networl	k X Core N	etwork X		
Title:	ж	Clarification	on of 8-PSK po	wer class	coding)					
Source:	æ	Ericsson I	M.								
Work item	code: #	EDGE					<i>Dat</i> e: ≭	2001-08-28			
Category:		F (corr A (corr B (add C (fund D (edit Detailed exp	Release: # REL-4 one 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) ailed explanations of the above categories can ound in 3GPP TR 21.900. REL-4 Use one of the following reaction of the following reaction: R96 (Release 1996, R97 (Release 1997, R98 (Release 1999, R99 (Release 1999, REL-4 REL-4 (Release 4) REL-5 (Release 5)								
Reason for	change:	class	The coding of 8-PSK modulation power classes is ambiguous. The power classes (3GPP TS 05.05) are labelled: E1, E2 and E3. The encoding of the enumerated type is not defined.								
Summary o	of change	Radio	Definitions of the encoding are included in the MS claasmark 3 and the MS Radio Access Capability information elements. Editorial alignments of the definitions of the relevant parameters.								
Consequent approved:	ices if no		There is a risk of incompatible encoding of the 8-PSK modulation power calsses between different vendors.								
Clauses aff	fected:	10.5.	1.7 and 10.5.5	.12a							
Other specaffected:	s	Te	her core speciest specification	าร	ж						
Other com	ments:	H									

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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.

10.5.1.7 Mobile Station Classmark 3

-- Skip to Table 10.5.1.7/3GPP TS 24.008 (continued) --

Table 10.5.1.7/3GPP TS 24.008 (continued): MS Classmark 3 information element

MS based E-OTD

Bit 4

- 0 MS based E-OTD not supported
- 1 MS based E-OTD supported

MS assisted GPS

Bit 3

- 0 MS assisted GPS not supported
- 1 MS assisted GPS supported

MS based GPS

Bit 2

- 0 MS based GPS not supported
- 1 MS based GPS supported

MS conventional GPS

Bit 1

- 0 conventional GPS not supported
- 1 conventional GPS supported

EDGE Multi Slot class (5 bit field)

In case the EDGE MS supports the use of multiple timeslots and the number of supported time slots is different from number of time slots supported for GMSK then the EDGE Multi Slot class field is included and is coded as the binary representation of the multislot class defined in 3GPP TS GSM-05.02.

Modulation Capability

Modulation Capability field indicates the supported modulation scheme by MS in addition to GMSK Rit 1

- 0 8-PSK supported for downlink reception only
- 1 8-PSK supported for uplink transmission and downlink reception

EDGE RF Power Capability 1 (2 bit field)

If 8-PSK modulation is supported for both uplink and downlink, the -**EDGE RF Power Capability 1** field indicates the radio capability for 8-PSK modulation in <u>GSM 400</u>, GSM700, GSM850 or GSM900.

The radio capability contains the binary coding of the EDGE power class(see GSMIS05.05).

EDGE RF Power Capability 2 (2 bit field)

If 8-PSK modulation is supported for both uplink and downlink, the **-EDGE RF Power Capability 2** field indicates the radio capability for 8-PSK modulation in DCS1800 or PCS1900 if supported, and is not included otherwise.

The radio capability respective EDGE RF Power Capability 1 and EDGE RF Power Capability 2 fields contains the following binary coding of the EDGE-8-PSK modulation power class (see 3GPP TS 05.05).:

Bits 21

- 00 Reserved
- 0 1 Power class E1
- 1 0 Power class E2
- 1 1 Power class E3

-- Next modified section --

-- Skip to Table 10.5.1.146/3GPP TS 24.008 (continued) --

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   \{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 \text{ multislot class} : bit (5) > \}
   \{0 \mid 1 < \text{EGPRS multislot class} : \text{bit } (5) > < \text{EGPRS Extended Dynamic Allocation} \quad \text{Capability} : \text{bit} > \}
   \{0 \mid 1 < \textbf{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
0010
          GSM R --note that GSM R covers GSM E and GSM P
0011
          GSM 1800
0100
          GSM 1900
0101
           GSM 450
          GSM 480
0110
0111
          GSM 850
1000
          GSM 700
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 3GPP TS 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 3GPP TS 05.05. The presence of this field indicates also 8PSK
modulation capability in uplink.
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following coding is used (see 3GPP TS 05.05):
Bits
       2 1
       00
              Reserved
              Power class E1
       0 1
       10
              Power class E2
       1.1
              Power class E3
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
1 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 available1 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

-- End of CR --

3GPP TSG-CN1 Meeting #19 Helsinki, Finland, 27.-31. August 2001

CHANGE REQUEST										CR-Form-v4			
					GL	\L	. W		J I				
#	24.	800	CR	465	Ġ	₩ (ev	-	¥	Current ve	rsion:	5.0.0) #
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.													
Proposed of	change (affects:	(U)S	SIM	ME/l	JE <mark>)</mark>	(Rad	io Ac	cess Netwo	ork X	Core N	Network X
Title:	ж	Clarificat	ion of 8-	PSK pov	wer cla	iss c	odin	g					
Source:	\mathfrak{H}	Ericsson	L.M.										
Work item	code:₩	EDGE								Date:	光 20	<mark>01-08-28</mark>	}
Category:	**	F (con A (con B (ad C (fur D (ed Detailed ex	ne 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) ield explanations of the above categories can correction in an earlier release R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)							2) 6) 7) 3)			
Reason for	change	clas	The coding of 8-PSK modulation power classes is ambiguous. The power classes (3GPP TS 05.05) are labelled: E1, E2 and E3. The encoding of the enumerated type is not defined.										
Summary o	Rad	Definitions of the encoding are included in the MS claasmark 3 and the MS Radio Access Capability information elements. Editorial alignments of the definitions of the relevant parameters.											
Consequer approved:		There is a risk of incompatible encoding of the 8-PSK modulation power calsses between different vendors.								er calsses			
Clauses af	fected:	10.5	5.1.7 and	10.5.5.	12a								
Other spec affected:	s	T	est spec	e specification	S	S	¥						
Other com	ments:	ж											

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    Additions in release 99

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   \{0 \mid 1 < \textbf{DTM GPRS Multi Slot Sub-Class: } bit(2)>
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           \{0 \mid 1 < DTM EGPRS Multi Slot Sub-Class : bit(2)> \} \};
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<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
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       2 1
       00
              Reserved
              Power class E1
       0 1
       10
              Power class E2
       1.1
              Power class E3
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
1 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

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A5/7

- 0 encryption algorithm A5/7 not available1 encryption algorithm A5/7 available

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-- End of CR --