### TSG-RAN Meeting #21 Frankfurt, Germany, 16-19 September 2003

RP-030480

Title: CRs (R'99 and linked Rel-4/Rel-5) to TS 25.302

Source: TSG-RAN WG2

Agenda item: 7.3.3

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.302	140	-	R99	Correction to FDD downlink transport channel combinations for SCCPCH	F	3.15.0	3.16.0	R2-031860	TEI
25.302	141	-	Rel-4	Correction to FDD downlink transport channel combinations for SCCPCH	Α	4.7.0	4.8.0	R2-031861	TEI
25.302	142	-	Rel-5	Correction to FDD downlink transport channel combinations for SCCPCH	Α	5.5.0	5.6.0	R2-031862	TEI

#### 3GPP TSG-RAN WG2 #37 Budapest, Hungary, 25<sup>th</sup>-29<sup>th</sup> Aug, 2003

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*	25	.302	CR	140	æ	rev	-	æ	Current vers	sion:	3.f.0	ж
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.												
Proposed change affects: UICC apps ME X Radio Access Network Core Network												
Title: %	Co	rrection	n to FE	D downlin	ık trans	port ch	anne	el co	mbinations fo	r SC	CPCH	
Source: #	RA	N WG	2									
Work item code: 第	TE	l							Date: #	Aug	g 2003	
Category:  # F  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) D (editorial modification)  Detailed explanations of the above categories can be found in 3GPP TR 21.900.						R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4)						
Reason for change	e: ¥	defin conta	ed as ain at r	"FACH or I	PCH or	FACH	I+PC	H". I	s for SCCPC t means that le FACH can	one S	SCCPCH (	can
SCCPCH.  Summary of change:  The transport channel combinations for from "FACH or PCH or FACH+PCH" to more FACH+PCH".  Isolated Impact change analysis: The CR has an isolated impact, since specification. A smart implementation indicated in this CR.				d" to ' : ce it	one corre	or more FAC	H or	PĆH or	ne or			
Consequences if not approved:	*	CR is		nplemente					other stage- apping may c			
Clauses affected:	*	8.2										
Other specs Affected:	æ	Y N X X	Test	r core spe specificati I Specifica	ons	ons	ж					
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How to create CRs using this form:

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# 8.2 FDD Downlink

The table describes the possible combinations of FDD physical channels that can be supported in the downlink on the same frequency by one UE simultaneously.

Table 2: FDD Downlink

		Channel Channel Combination		Mandatory dependent on UE radio access capabilities	Comment
Ī	1	PCCPCH	BCH	Mandatory	
	2	SCCPCH	One or more FACH Or PCH Or one or more FACH + PCH	Mandatory	The maximum channel bit rate that can be supported is dependent on the UE radio access capabilities.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	3	PCCPCH + SCCPCH	BCH + (one or more FACH or PCH or (one or more FACH + PCH))	Mandatory	Simultaneous reception of PCCPCH and SCCPCH is only needed at occurrences when the UE needs to read system information on BCH while being in CELL_FACH state, i.e. continuous reception of both PCCPCH and SCCPCH at the same time is not required. The requirement holds for PCCPCH and SCCPCH sent in different cells or in the same cell.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	4	SCCPCH + AICH	(one or more FACH or PCH or (one or more FACH + PCH))+ RACH in uplink Or (one or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Mandatory	The maximum channel bit rate that can be supported is dependent on the UE radio access capabilities.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.  This physical channel combination facilitates the preamble portion of the CPCH in the uplink
	5	SCCPCH + DPCCH	(One or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Depending on UE radio access capabilities	This physical channel combination facilitates the message portion of the CPCH in the uplink The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	6	More than one SCCPCH	More than one ( <u>one</u> or <u>more</u> FACH or PCH or ( <u>one or</u> <u>more</u> FACH + PCH))	Depending on UE radio access capabilities	The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
Ţ	7	PICH	N/A	Mandatory	
	8	DPCCH + DPDCH	One or more DCH coded into a single CCTrCH	Mandatory	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
	9	DPCCH + more than one DPDCH	One or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.

		Physical Channel Combination	Transport Channel Combination	Mandatory dependent on UE radio access capabilities	Comment
-	10	One or more PDSCH + DPCCH + one or more DPDCH	One or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
	11	SCCPCH + DPCCH + one or more DPDCH	One or more FACH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for DRAC control of an uplink DCH and for receiving services such as cell broadcast or multicast whilst in connected mode. NOTE 1
	12	SCCPCH + one or more PDSCH + DPCCH + one or more DPDCH	One or more FACH + one or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for simultaneous DSCH and DRAC control of an uplink DCHNOTE 1
	13	One DPCCH + more than one DPDCH	More than one DCH coded into one or more CCTrCH	Depending on UE radio access capabilities	
	14	PCCPCH (neighbour cell) + DPCCH + one or more DPDCH + zero, one, or more PDSCH	BCH (neighbour cell) + one or more DCHs + zero, one or more DSCH	Mandatory	This combination is required by a UE in CELL_DCH state to be able to read the SFN of a neighbouring cell and support "SFN-CFN observed time difference" and "SFN-SFN observed time difference" measurements.

NOTE 1: When both DRAC and CTCH are configured in one cell, the UTRAN should transmit DRAC info and CTCH info on the same S-CCPCH in order to minimize the number of S-CCPCH to be read by the UE. A UE which supports the simultaneous reception of S-CCPCH and DPCH, shall be capable of switching between different S-CCPCH in order to listen to DRAC info and CTCH info that are not scheduled in the same time intervals. If the UE is ordered to listen to CTCH and DRAC info on different S-CCPCH in the same time interval, it shall listen to DRAC info in priority.

### 3GPP TSG-RAN WG2 #37 Budapest, Hungary, 25<sup>th</sup>-29<sup>th</sup> Aug, 2003

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CHANGE REQUEST													
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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: 第	Cor	rection	to FD	D downlin	nk trans	sport ch	nanne	el cor	mbination	s for	SCCI	PCH	
Source: #	RA	N WG2	<u> </u>										
Work item code: ₩	TEI								Date	e: #	Aug	2003	
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	3	PCCPCH + SCCPCH	BCH + (one or more FACH or PCH or (one or more FACH + PCH))	Mandatory	Simultaneous reception of PCCPCH and SCCPCH is only needed at occurrences when the UE needs to read system information on BCH while being in CELL_FACH state, i.e. continuous reception of both PCCPCH and SCCPCH at the same time is not required. The requirement holds for PCCPCH and SCCPCH sent in different cells or in the same cell.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	4	SCCPCH + AICH	(One or more FACH or PCH or (one or more FACH + PCH))+ RACH in uplink Or (one or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Mandatory	The maximum channel bit rate that can be supported is dependent on the UE radio access capabilities.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.  This physical channel combination facilitates the preamble portion of the CPCH in the uplink
	5	SCCPCH + DPCCH	(One or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Depending on UE radio access capabilities	This physical channel combination facilitates the message portion of the CPCH in the uplink The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	6	More than one SCCPCH	More than one (one or more FACH or PCH or (one or more FACH + PCH))	Depending on UE radio access capabilities	The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
Ţ	7	PICH	N/A	Mandatory	
	8	DPCCH + DPDCH	One or more DCH coded into a single CCTrCH	Mandatory	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
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		Physical Channel Combination	Transport Channel Combination	Mandatory dependent on UE radio access capabilities	Comment
-	10	One or more PDSCH + DPCCH + one or more DPDCH	One or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
	11	SCCPCH + DPCCH + one or more DPDCH	One or more FACH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for DRAC control of an uplink DCH and for receiving services such as cell broadcast or multicast whilst in connected mode. NOTE 1
	12	SCCPCH + one or more PDSCH + DPCCH + one or more DPDCH	One or more FACH + one or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for simultaneous DSCH and DRAC control of an uplink DCHNOTE 1
	13	One DPCCH + more than one DPDCH	More than one DCH coded into one or more CCTrCH	Depending on UE radio access capabilities	
	14	PCCPCH (neighbour cell) + DPCCH + one or more DPDCH + zero, one, or more PDSCH	BCH (neighbour cell) + one or more DCHs + zero, one or more DSCH	Mandatory	This combination is required by a UE in CELL_DCH state to be able to read the SFN of a neighbouring cell and support "SFN-CFN observed time difference" and "SFN-SFN observed time difference" measurements.

NOTE 1: When both DRAC and CTCH are configured in one cell, the UTRAN should transmit DRAC info and CTCH info on the same S-CCPCH in order to minimize the number of S-CCPCH to be read by the UE. A UE which supports the simultaneous reception of S-CCPCH and DPCH, shall be capable of switching between different S-CCPCH in order to listen to DRAC info and CTCH info that are not scheduled in the same time intervals. If the UE is ordered to listen to CTCH and DRAC info on different S-CCPCH in the same time interval, it shall listen to DRAC info in priority.

### 3GPP TSG-RAN WG2 #37 Budapest, Hungary, 25<sup>th</sup>-29<sup>th</sup> Aug, 2003

			СН	ANGE	REQ	UE	ST				CR-Form-v7
ж	25.	302	CR 14	2	жrev	-	ж	Current vers	sion:	5.5.0	æ
For <u>HELP</u> on u	sing t	his forr	n, see bo	ttom of this	s page or	look a	at the	e pop-up text	over t	the <b>%</b> syr	mbols.
Proposed change affects: UICC apps ME X Radio Access Network Core Network											
Title: 第	Cor	rection	to FDD c	lownlink tra	ansport c	hanne	el con	nbinations fo	r SCC	PCH	
Source: #	RAN	WG2									
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Clauses affected:	Ж	8.2									
Other specs Affected:	<b>*</b>	Y N X X X	Test spe	re specific cifications ecification		ж					
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	4	SCCPCH + AICH	(One or more FACH or PCH or (one or more FACH + PCH))+ RACH in uplink Or (one or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Mandatory	The maximum channel bit rate that can be supported is dependent on the UE radio access capabilities.  The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.  This physical channel combination facilitates the preamble portion of the CPCH in the uplink
	5	SCCPCH + DPCCH	(One or more FACH or PCH or (one or more FACH + PCH))+ CPCH in uplink	Depending on UE radio access capabilities	This physical channel combination facilitates the message portion of the CPCH in the uplink The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
	6	More than one SCCPCH	More than one (one or more FACH or PCH or (one or more FACH + PCH))	Depending on UE radio access capabilities	The PCH is included when the UE needs to receive paging on the SCCPCH.  The reception of (one or more FACH + PCH) is to enable the reception of broadcast services on the CTCH, mapped to one of the FACH.
Ţ	7	PICH	N/A	Mandatory	
	8	DPCCH + DPDCH	One or more DCH coded into a single CCTrCH	Mandatory	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
	9	DPCCH + more than one DPDCH	One or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.

		Physical Channel Combination	Transport Channel Combination	Mandatory dependent on UE radio access capabilities	Comment
	10	One or more PDSCH + DPCCH + one or more DPDCH	One or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities.
	11	SCCPCH + DPCCH + one or more DPDCH	One or more FACH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for DRAC control of an uplink DCH and for receiving services such as cell broadcast or multicast whilst in connected mode. NOTE 1
	12	SCCPCH + one or more PDSCH + DPCCH + one or more DPDCH	One or more FACH + one or more DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. This combination of physical channels is used for simultaneous DSCH and DRAC control of an uplink DCHNOTE 1
	13	One DPCCH + more than one DPDCH	More than one DCH coded into one or more CCTrCH	Depending on UE radio access capabilities	
	14	PCCPCH (neighbour cell) + DPCCH + one or more DPDCH + zero, one, or more PDSCH	BCH (neighbour cell) + one or more DCHs + zero, one or more DSCH	Mandatory	This combination is required by a UE in CELL_DCH state to be able to read the SFN of a neighbouring cell and support "SFN-CFN observed time difference" and "SFN-SFN observed time difference" measurements.
	15	DPCCH + one or more DPDCH + one or more HS-SCCH + zero, one or more HS- PDSCH	One HS-DSCH coded into a single CCTrCH + one or more DCH coded into a single CCTrCH	Depending on UE radio access capabilities	The maximum number of DCHs and the maximum channel bit rate are dependent on UE radio access capabilities. NOTE 2
-	16	PCCPCH (neighbour cell) + DPCCH + one or more DPDCH + one or more HS-SCCH + zero, one or more HS- PDSCH	BCH (neighbour cell) + one or more DCHs + one HS- DSCH	Depending on UE radio access capabilities	This combination is required by a UE in CELL_DCH state to be able to read the SFN of a neighbouring cell and support "SFN-CFN observed time difference" and "SFN-SFN observed time difference" measurements while HS-DSCH(s) are configured. NOTE 2

NOTE 1: When both DRAC and CTCH are configured in one cell, the UTRAN should transmit DRAC info and CTCH info on the same S-CCPCH in order to minimize the number of S-CCPCH to be read by the UE. A UE which supports the simultaneous reception of S-CCPCH and DPCH, shall be capable of switching between different S-CCPCH in order to listen to DRAC info and CTCH info that are not scheduled in the same time intervals. If the UE is ordered to listen to CTCH and DRAC info on different S-CCPCH in the same time interval, it shall listen to DRAC info in priority.

NOTE 2: When one or more HS-PDSCHs are received, it is sufficient for the UE to monitor only one HS-SCCH.