# TSG-RAN Meeting #15 Cheju, Korea, 5 - 8 March 2002

Title: Change requests for "Removing of channel coding option "no coding" for FDD and 3.84Mpcs TDD"

Source: TSG-RAN WG3

RP_Num	Tdoc_Num	Specification	CR_Num I	Revision_Num 3	G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
RP-020187	R3-020647	25.423	585	1 F		Removing of channel coding option "no coding" for FDD and 3.84Mcps TDD	F	3.8.0	TEI
RP-020187	R3-020648	25.423	586	1 F		Removing of channel coding option "no coding" for FDD & 3.84Mcps TDD RNSAP R4	A	4.3.0	TEI
RP-020187	R3-020649	25.433	627	1 F		Removing of channel coding option "no coding" for FDD & 3.84Mcps TDD NBAP R99	F	3.8.0	TEI
RP-020187	R3-020650	25.433	628	1 F		Removing of channel coding option "no coding" for FDD & 3.84Mcps TDD NBAP R4	A	4.3.0	TEI

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<b></b>	25	.423	CR <mark>585</mark>	жr	ev	<b>1</b> **	Current	versic	n:	3.8.0	ж
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Proposed change a	affec	ts: ૠ	(U)SIM	ME/UE		Radio A	ccess Ne	twork	X	Core Ne	etwork
Title: #	Rei	movin	g of channel c	oding option	n "no	coding" 1	for FDD a	nd 3.8	34Mc	ps TDD	
Source: #	R-V	VG3									
Work item code: ₩	TE	l					Date	e: Ж	18.0	2.2002	
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Reason for change	· #	In th	e last joint RA	N1/RAN2 m	eetin	a Feb. 5	-6 2002 i	t has l	heen	agreed	to
reason for unange	00	remo	ove the channe 99 & REL-4 sir	el coding op	tion "	no codir	ng" for FD	D and	3.84		
Summary of chang	re: ₩	Revis Isolat Impacreleas This Creleas	type of channed ASN.1 code by ion 1: CR covered impact and ct assessment se):  CR has no impact and the code impact and ct assessment se):  CR has no impact and the code impact and ct assessment and ct assessme	replacing in er page and alysis: towards the eact with the peremoved	sem e prev prev type	antic des vious ver ious vers of chann	parameterscription not the sion of the el coding	er 'void nodifie e spec e spec wasn'	d'. ed. cifica ificat t use	tion (san tion (sam ed at all a	ne e ind in the
Consequences if not approved:	#	"no d	coding" option	would still b	e po	ssible.					
Clauses affected:	Ж	9.2.1	1.64, 9.3.4								
Other specs	X	XO	ther core spec	ifications	X	CR009 CR010 CR127r CR128r CR 110 CR111 CR067r CR068r CR044 CR045 CR120r	25.2 1 25.2 1 25.2 25.2 25.2 25.2 1 25.2 1 25.2 25.2 25.2	01 v3. 01 v4. 12 v3. 12 v4. 15 v3. 15 v4. 22 v3. 22 v4. 25 v3. 25 v4. 02 v3.	.1.0 .8.0 .3.0 .9.0 .3.0 .7.0 .2.0 .9.0 .3.0		

			CR121	25.302 v4.3.0	
			CR1295	25.331 v3.9.0	
			CR1296	25.331 v4.3.0	
			CR 586r1	25.423 v4.3.0	
			CR 627r1	25.433 v3.8.0	
			CR 628r1	25.433 v4.3.0	
affected:		Test specifications			
		O&M Specifications			
		-			
Other comments:	H				

Comprehensive information and tips about how to create CRs can be found at: <a href="http://www.3gpp.org/3G">http://www.3gpp.org/3G</a> 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

# 9.2.1.64 Transport Format Set

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 <maxtfcount></maxtfcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C - Blocks		INTEGER (05000)	Bits
>CHOICE Mode >>TDD	M			
>>>Transmission Time Interval Information	C- TTldynamic	1 <maxttlcount></maxttlcount>		
>>>Transmission Time Interval	М		ENUMERAT ED(10, 20, 40, 80,)	msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	М		ENUMERAT ED (10, 20, 40, 80, dynamic, )	msec Value "dynamic" for TDD only
>Type of Channel Coding	М		ENUMERAT ED ( <u>Void</u> Ne eoding, Convolutiona I, Turbo,)	Usage: The value 'Void' shall be treated as logical error if received.
>Coding Rate	C – Coding		ENUMERAT ED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC size	M		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD >>>2 <sup>nd</sup> Interleaving Mode	M		ENUMERAT ED(Frame related, Timeslot related,)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set
	to a value greater than 0.
Coding	The IE shall be present if the Type of Channel Coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE of the
	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
MaxTFcount	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
MaxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
MaxTTlcount	The amount of different TTI that are possible for that transport
	format is.

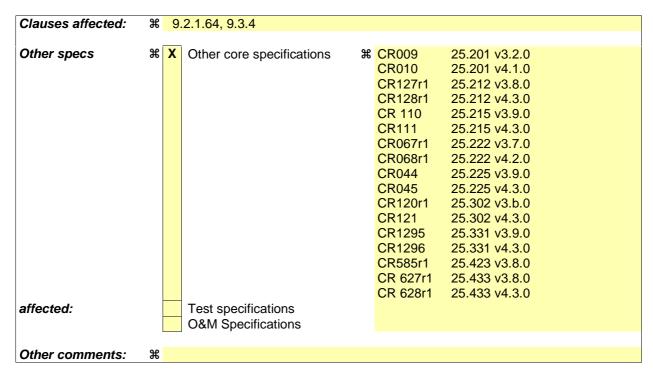
## 9.3.4 Information Element Definitions

```
-- Information Element Definitions
TEXT OMITTED
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
ChannelCodingType ::= ENUMERATED {
  void<del>no coding</del>,
   convolutional-coding,
   turbo-coding,
ChipOffset
                    ::= INTEGER (0..38399)
                                       TEXT OMITTED
{\tt TransmissionTimeIntervalInformation} ::= {\tt SEQUENCE} \ ({\tt SIZE} \ ({\tt 1..maxTTI-Count})) \ {\tt OF}
   SEQUENCE {
       transmissionTimeInterval TransmissionTimeIntervalDynamic,
       iE-Extensions ProtocolExtensionContainer {
{TransmissionTimeIntervalInformation-ExtIEs} } OPTIONAL,
   }
TransmissionTimeIntervalInformation-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
   cell-based,
   ue-based,
   . . .
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
   transmissionTime TransmissionTimeIntervalSemiStatic,
   channelCoding Channel codingRate CodingRate
                         ChannelCodingType,
                                              OPTIONAL
   -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
   rateMatcingAttribute
                             RateMatchingAttribute,
   mode TransportFormatSet-ModeSSP,

iE-Extensions Protocols
                         ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-
ExtIEs } OPTIONAL,
}
TransportFormatSet-Semi-staticPart-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
}
TransportFormatSet-ModeSSP ::= CHOICE {
        SecondInterleavingMode,
   notApplicable NULL,
}
TransportLayerAddress
                      ::= BIT STRING (SIZE(1..160, ...))
```

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Title: ₩	Rei	moving	g of cha	annel co	ding o	ption "n	o codi	ng" f	or FDD a	and 3	8.84N	Icps TDD	
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### TEXT OMITTED

### 9.2.1.64 Transport Format Set

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 <maxtfcount></maxtfcount>		The first instance of the parameter corresponds to TF zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C - Blocks		INTEGER (05000)	Bits
>CHOICE Mode	М			
>>TDD  >>>Transmission Time Interval Information	C- TTldynamic	1 <maxttlcount></maxttlcount>		
>>>>Transmission Time Interval	М		ENUMERAT ED(10, 20, 40, 80,)	msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	M		ENUMERAT ED (10, 20, 40, 80, dynamic, )	msec Value "dynamic" for TDD onl
>Type of Channel Coding	M		ENUMERAT ED (VoidNo coding, Convolutiona I, Turbo, No codingLCR)	Usage: The value 'Void' shall be treated as logical error if received. The value 'No codingLCR' shall be used for 1.28Mcps TDD only.
>Coding Rate	C – Coding		ENUMERAT ED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD >>>2 <sup>nd</sup> Interleaving Mode	M		ENUMERAT ED(Frame related, Timeslot related,)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set
	to a value greater than 0.
Coding	Th IE present if Transmission Time Interval IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
MaxTFcount	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
MaxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
MaxTTlcount	The amount of different TTI that are possible for that transport
	format is.

# 9.3.4 Information Element Definitions

```
-- Information Element Definitions
__ ******************
                                        TEXT OMITTED
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
ChannelCodingType ::= ENUMERATED {
  void<del>no-coding</del>,
   convolutional-coding,
   turbo-coding,
   no-codingLCR
ChipOffset
             ::= INTEGER (0..38399)
                                        TEXT OMITTED
{\tt TransmissionTimeIntervalInformation} \ ::= \ {\tt SEQUENCE} \ ({\tt SIZE} \ ({\tt 1..maxTTI-Count})) \ {\tt OF}
       transmissionTimeInterval TransmissionTimeIntervalDynamic,
       iE-Extensions ProtocolExtensionContainer {
\{ {\tt TransmissionTimeIntervalInformation-ExtIEs} \} \ {\tt OPTIONAL},
    }
```

```
TransmissionTimeIntervalInformation-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
   cell-based,
   ue-based,
   . . .
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
   transmissionTime TransmissionTimeIntervalSemiStatic,
   channelCoding ChannelCodingType codingRate CodingRate
                        ChannelCodingType,
                                            OPTIONAL
   -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
   rateMatcingAttribute RateMatchingAttribute,
   cRC-Size CRC-Size,
                    TransportFormatSet-ModeSSP,
   mode
   iE-Extensions
                        ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-
ExtIEs } OPTIONAL,
   . . .
}
TransportFormatSet-Semi-staticPart-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-ModeSSP ::= CHOICE {
   tdd SecondInterleavingMode,
   notApplicable NULL,
TransportLayerAddress ::= BIT STRING (SIZE(1..160, ...))
```

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Proposed change a	affec	ts: ೫	(U)SIM	ME/UE		Radio A	ccess Ne	twork	X	Core Ne	etwork
Title: #	Rei	movin	g of channel o	oding option	n "no	coding" 1	for FDD a	ınd 3.	84M	cps TDD	
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Reason for change	· ¥	In th	e last joint RA	N1/RAN2 m	eetin	a Feb. 5	-6 2002	it has	heer	agreed	to
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Consequences if not approved:	#	"no (	coding" option	would still b	e po	ssible.					
Clauses affected:	Ж	9.2.	1.59, 9.3.4								
Other specs	¥	XO	ther core spe	cifications	×	CR009 CR010 CR127r CR128r CR 110 CR111 CR067r CR068r CR044 CR045 CR120r	25.2 1 25.2 1 25.2 25.2 25.2 25.2 1 25.2 25.2 25.2 25.2	01 v3 01 v4 112 v3 112 v4 115 v4 122 v3 122 v4 125 v4 125 v4	4.1.0 3.8.0 4.3.0 3.9.0 4.3.0 3.7.0 4.2.0 3.9.0 4.3.0		

			CR121	25.302 v4.3.0	
			CR1295	25.331 v3.9.0	
			CR1296	25.331 v4.3.0	
			CR585r1	25.423 v3.8.0	
			CR 586r1	25.423 v4.3.0	
			CR 628r1	25.433 v4.3.0	
affected:		Test specifications			
		O&M Specifications			
Other comments:	X				

Comprehensive information and tips about how to create CRs can be found at: <a href="http://www.3gpp.org/3G">http://www.3gpp.org/3G</a> Specs/CRs.htm. Below is a brief summary:

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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.

# 9.2.1.59 Transport Format Set

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 to <maxtfcount></maxtfcount>	10.00.000	The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport blocks	М		INTEGER (0512)	
>Transport Block Size	C - Blocks		INTEGER (05000)	Bits
>CHOICE Mode	M		, ,	
>>TDD				
>>>Transmission Time interval Information	C- TTIdynami c	1 to <maxttlcount></maxttlcount>		
>>>>Transmission time interval	М		Enumerated(10, 20, 40, 80,)	ms
Semi-static Transport Format Information		1	-, -, -, -,	
>Transmission time interval	М		ENUMERATED (10, 20, 40, 80, dynamic,)	ms Value "dynamic" for TDD only
>Type of channel coding	M		ENUMERATED ( <u>VoidNo coding</u> , Convolutional, Turbo,)	Usage: The value 'Void' shall be treated as logical error if received.
>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3,)	
>Rate matching attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	M		. ,	
>>TDD				
>>>2 <sup>nd</sup> interleaving mode	М		Enumerated(Fra me related, Timeslot related,)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set to
	a value greater than 0.
Coding	The IE shall be present if the Type of channel coding IE is set to
_	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
-	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
MaxTFcount	Maximum number of different transport formats that can be included
	in the Transport format set for one transport channel.
MaxRM	Maximum number that could be set as rate matching attribute for a
	transport channel.
MaxTTlcount	The amount of different TTI that are possible for that transport format.

## 9.3.4 Information Elements Definitions

```
-- Information Element Definitions
TEXT OMITTED
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
   transmissionTimeInterval
                                     TransportFormatSet-TransmissionTimeIntervalSemiStatic,
   channelCoding
                                  TransportFormatSet-ChannelCodingType,
   codingRate
                                 TransportFormatSet-CodingRate
                                                                           OPTIONAL,
   -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or
   rbo'
rateMatcingAttribute
'turbo'
                                  TransportFormatSet-RateMatchingAttribute,
                                 TransportFormatSet-CRC-Size,
   mode
                                  TransportFormatSet-ModeSSP
   iE-Extensions
                                 ProtocolExtensionContainer { { TransportFormatSet-Semi-
staticPart-ExtIEs} } OPTIONAL,
TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{\tt TransportFormatSet-ChannelCodingType} \; ::= \; {\tt ENUMERATED} \; \left\{ \right.
   voidno-coding,
   convolutional-coding,
   turbo-coding,
}
TransportFormatSet-CodingRate ::= ENUMERATED {
   third,
   . . .
}
TransportFormatSet-CRC-Size ::= ENUMERATED {
   v8,
   v12,
   v16,
   v24,
}
```

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Proposed change	affec	ts: ¥	(U)SIM	ME/UE		Radio A	ccess Netw	vork X	Core N	letwork
Title: #	Re	moving	of channel	coding option	n "no (	coding"	for FDD an	d 3.84N	Mcps TDD	
Source: #	R-V	NG3								
Work item code: ₩	TE	I					Date:	· <mark>第</mark> 18	3.02.2002	
Category: #	Deta	F (corred) A (corred) B (add) C (fundation D (edited)	responds to a lition of feature ctional modific orial modifica	correction in a e), cation of featur tion) he above cate	re)		2	of the f (GS) (Re (Re (Re (Re 4 (Re	EL-4 following re M Phase 2 lease 1996 lease 1998 lease 1999 lease 4) lease 5)	) ) ) )
Reason for change	e: #	remo	ve the chan	AN1/RAN2 n nel coding op since 'this fea	otion "	no codir	ng" for FDD	and 3.		
Summary of chang	ge: Ж	The tothe A For R new of Revision Isolate Impact release For FE the specific 'No co where The impact release in the specific 'No co where The impact release to the specific 'No co where the impact release to the specific 'No co where the impact release to the specific 'No co where the impact release to the specific 'No co where the impact release to the specific 'No co where the impact release to the specific 'No co where the impact release to the specific 'No co where the specific	sype of changes. SN.1 code in S	nel coding "replacing BMcps TDD toding LCR' were page and nalysis: not towards the same release for FDD and aced by the considered by the	no cod it by a his 'no vas int d sema d sema e prev his CF e) beca 3.84N dumm s isola ecause s an ir	ing" is redummy ocoding roduced antic designations verificated imples the formpact ups TDD	emoved in the parameter of the parameter	the tabuly void a buld still llipsis.  odified.  specification of the pype of e ASN.  e previous properties of points of points.	cation (sa revious ve channel co 1 the value ous version otion is rep t of view fo	me ersion of oding e 'no n of the blaced by or cases
Consequences if not approved:	*	"no c	oding" optio	n would still	be pos	ssible.				
Clauses affected:	ж	9.2.1	.59, 9.3.4							

Other specs # X Other core specifications # CR009 25.201 v3.2.0

		CR010	25.201 v4.1.0	
		CR127r1	25.212 v3.8.0	
		CR128r1	25.212 v4.3.0	
		CR 110	25.215 v3.9.0	
		CR111	25.215 v4.3.0	
		CR067r1	25,222 v3,7.0	
		CR068r1	25,222 v4,2,0	
		CR044	25,225 v3.9.0	
		CR045	25.225 v4.3.0	
		CR120r1	25.302 v3.b.0	
		CR121	25.302 v4.3.0	
		CR1295	25.331 v3.9.0	
		CR1296	25.331 v4.3.0	
		CR585r1	25.423 v3.8.0	
		CR 586r1	25.423 v4.3.0	
		CR 627r1	25.433 v3.8.0	
affected:	Test specifications	0.110=111		
	O&M Specifications			
	Cain opcomedion			
Other comments: \$	<b>K</b>			
Gaioi Goillinetto.	,0			

Comprehensive information and tips about how to create CRs can be found at: <a href="http://www.3gpp.org/3G\_Specs/CRs.htm">http://www.3gpp.org/3G\_Specs/CRs.htm</a>. 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

# 9.2.1.59 Transport Format Set

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 to <maxtfcount></maxtfcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport blocks	М		INTEGER (0512)	
>Transport Block Size	C - Blocks		INTEGER (05000)	Bits
>CHOICE Mode	M			
>>TDD				
>>>Transmission Time interval Information	C- TTIdynami c	1 to <maxtticount></maxtticount>		
>>>Transmission time interval	M		Enumerated(10, 20, 40, 80,)	ms
Semi-static Transport Format Information		1		
>Transmission time interval	M		ENUMERATED (10, 20, 40, 80, dynamic,,5)	ms; Value "dynamic" for TDD only; Value "5" for LCR TDD only
>Type of channel coding	M		ENUMERATED ( <u>VoidNo coding</u> , Convolutional, Turbo, <u>No codingLCR</u> )	Usage: The value 'Void' shall be treated as logical error if received. The value 'No codingLCR' shall be used for 1.28Mcps TDD only.
>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3,)	
>Rate matching attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	M			
>>TDD				
>>>2 <sup>nd</sup> interleaving mode	М		Enumerated(Fra me related, Timeslot related,)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set to
	a value greater than 0.
Coding	The IE shall be present if the Type of channel coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
MaxTFcount	Maximum number of different transport formats that can be included
	in the Transport format set for one transport channel.
MaxRM	Maximum number that could be set as rate matching attribute for a
	transport channel.
MaxTTlcount	The amount of different TTI that are possible for that transport format.

## 9.3.4 Information Elements Definitions

```
-- Information Element Definitions
__****************************
                                        TEXT OMITTED
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
   transmissionTimeInterval TransportFormatSet-TransmissionTimeIntervalSemiStatic,
    {\tt channelCoding}
                                  TransportFormatSet-ChannelCodingType,
                                                                              OPTIONAL,
    codingRate
                                  TransportFormatSet-CodingRate
    -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or
'turbo'
                                   TransportFormatSet-RateMatchingAttribute,
   rateMatcingAttribute
   cRC-Size
                                   TransportFormatSet-CRC-Size,
                                   TransportFormatSet-ModeSSP
   mode
   iE-Extensions
                                  ProtocolExtensionContainer { { TransportFormatSet-Semi-
staticPart-ExtIEs} } OPTIONAL,
TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{\tt TransportFormatSet-ChannelCodingType} \; ::= \; {\tt ENUMERATED} \; \left\{ \right.
  void<del>no-coding</del>,
    convolutional-coding,
    turbo-coding,
   no-codingLCR
TransportFormatSet-CodingRate ::= ENUMERATED {
   half,
   third,
}
TransportFormatSet-CRC-Size ::= ENUMERATED {
   v12,
   v16.
   v24,
    . . .
```