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

TSGRP#15(02) 0187

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	Revision_Num	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
RP-020187	R3-020647	25.423	585	1	R99	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	Rel-4	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	R99	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	Rel-4	Removing of channel coding option "no coding" for FDD & 3.84Mcps TDD NBAP R4	A	4.3.0	TEI

3GPP TSG-RAN WG3 Meeting #27
Orlando, USA, February 18-22, 2002

R3-020647

CR-Form-v5

CHANGE REQUEST

⌘ **25.423** **CR** **585** ⌘ **rev** **1** ⌘ Current version: **3.8.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network ☐

Title:	⌘	Removing of channel coding option "no coding" for FDD and 3.84Mcps TDD
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	18.02.2002
Category:	⌘	**F**
Release:	⌘	R99

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.

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 change:	⌘	In the last joint RAN1/RAN2 meeting Feb. 5-6, 2002 it has been agreed to remove the channel coding option “no coding” for FDD and 3.84 Mcps TDD from Rel.99 & REL-4 since 'this feature was not used by anyone'.
Summary of change:	⌘	The type of channel coding "no coding" is removed in the tabular format and in the ASN.1 code by replacing it by a dummy parameter 'void'. Revision 1: CR cover page and semantic description modified. **Isolated impact analysis**: Impact assessment towards the previous version of the specification (same release): This CR has no impact with the previous version of the specification (same release) because the removed type of channel coding wasn't used at all and in the ASN.1 the value 'no coding' is just replaced by the dummy parameter 'void'.
Consequences if not approved:	⌘	"no coding" option would still be possible.

Clauses affected:	⌘	9.2.1.64, 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 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:	⌘		

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://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.

TEXT OMITTED

9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1..<maxTFcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	M		INTEGER (0..512)	
>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE *Mode*	M			
>>*TDD*				
>>>**Transmission Time Interval Information**	C-TTIdynamic	1..<maxTTIcount>		
>>>>Transmission Time Interval	M		ENUMERATED(10, 20, 40, 80,…)	msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	M		ENUMERATED (10, 20, 40, 80, dynamic, …)	msec Value “dynamic” for TDD only
>Type of Channel Coding	M		ENUMERATED (Void~~No coding~~, 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	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24,…)	
>CHOICE *Mode*	M			
>>*TDD*				
>>>2nd Interleaving Mode	M		ENUMERATED(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.
MaxTTIcount	The amount of different TTI that are possible for that transport format is.

TEXT OMITTED

9.3.4 Information Element Definitions

```
-- **************************************************************
--
-- Information Element Definitions
--
-- **************************************************************
```

TEXT OMITTED

```
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

ChannelCodingType ::= ENUMERATED {
    void~~no-coding~~,
    convolutional-coding,
    turbo-coding,
    ...
}

ChipOffset              ::= INTEGER (0..38399)
```

TEXT OMITTED

```
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
    SEQUENCE {
        transmissionTimeInterval    TransmissionTimeIntervalDynamic,
        iE-Extensions           ProtocolExtensionContainer {
{TransmissionTimeIntervalInformation-ExtIEs} } OPTIONAL,
        ...
    }

TransmissionTimeIntervalInformation-ExtIEs 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              OPTIONAL
    -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute        RateMatchingAttribute,
    cRC-Size            CRC-Size,
    mode                TransportFormatSet-ModeSSP,
    iE-Extensions           ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-
ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd             SecondInterleavingMode,
    notApplicable           NULL,
    ...
}

TransportLayerAddress           ::= BIT STRING (SIZE(1..160, ...))
```

TEXT OMITTED

3GPP TSG-RAN WG3 Meeting #27
Orlando, USA, February 18-22, 2002

R3-020648

CR-Form-v5

CHANGE REQUEST

⌘ **25.423** **CR** **586** ⌘ **rev** **1** ⌘ Current version: **4.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network ☐

Title:	⌘	Removing of channel coding option "no coding" for FDD and 3.84Mcps TDD
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	18.02.2002
Category:	⌘	**A**
Release:	⌘	REL-4

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.

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 change:	⌘	In the last joint RAN1/RAN2 meeting Feb. 5-6, 2002 it has been agreed to remove the channel coding option “no coding” for FDD and 3.84 Mcps TDD from Rel.99 & REL-4 since 'this feature was not used by anyone'.
Summary of change:	⌘	The type of channel coding "no coding" is removed in the tabular format and in the ASN.1 code by replacing it by a dummy parameter 'void' as done for Rel.99. For Rel.4 for 1.28Mcps TDD this 'no coding' option should still exist. Therefore a new option 'No coding LCR' was introduced after the ellipsis. Revision 1: CR cover page and semantic description modified. **Isolated impact analysis**: Impact assessment towards the previous version of the specification (same release): For **FDD and 3.84Mcps TDD** this CR has no impact with the previous version of the specification (same release) because the removed type of channel coding wasn't used at all for FDD and 3.84Mcps TDD and in the ASN.1 the value 'no coding' is just replaced by the dummy parameter 'void'. For **1.28Mcps TDD** this CR has isolated impact with the previous version of the specification (same release) because the former 'No coding' option is replaced by 'No codingLCR'. So this CR has an impact under protocol point of view for cases where 'no coding' is used for 1.28Mcps TDD. The impact can be considered isolated because the change affects only the channel coding type.
Consequences if not approved:	⌘	"no coding" option would still be possible.

Clauses affected:	⌘	9.2.1.64, 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 627r1 25.433 v3.8.0 CR 628r1 25.433 v4.3.0
affected:			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.

TEXT OMITTED

9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1..<maxTFcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	M		INTEGER (0..512)	
>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE *Mode*	M			
>>*TDD*				
>>>**Transmission Time Interval Information**	C-TTIdynamic	1..<maxTTIcount>		
>>>>Transmission Time Interval	M		ENUMERATED(10, 20, 40, 80,…)	msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	M		ENUMERATED (10, 20, 40, 80, dynamic, …)	msec Value “dynamic” for TDD only
>Type of Channel Coding	M		ENUMERATED (Void~~No coding~~, Convolutional, 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		ENUMERATED (1/2, 1/3,…)	
>Rate Matching Attribute	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24,…)	
>CHOICE *Mode*	M			
>>*TDD*				
>>>2nd Interleaving Mode	M		ENUMERATED(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.
MaxTTIcount	The amount of different TTI that are possible for that transport format is.

TEXT OMITTED

9.3.4 Information Element Definitions

```
-- **************************************************************
--
-- Information Element Definitions
--
-- **************************************************************
```

TEXT OMITTED

```
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

ChannelCodingType ::= ENUMERATED {
    voidno-coding,
    convolutional-coding,
    turbo-coding,
    ...,
    no-codingLCR
}

ChipOffset              ::= INTEGER (0..38399)
```

TEXT OMITTED

```
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
    SEQUENCE {
        transmissionTimeInterval    TransmissionTimeIntervalDynamic,
        iE-Extensions           ProtocolExtensionContainer {
{TransmissionTimeIntervalInformation-ExtIEs} } OPTIONAL,
        ...
    }
```

```
TransmissionTimeIntervalInformation-ExtIEs 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              OPTIONAL
    -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute        RateMatchingAttribute,
    cRC-Size            CRC-Size,
    mode                TransportFormatSet-ModeSSP,
    iE-Extensions           ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-
ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd             SecondInterleavingMode,
    notApplicable           NULL,
    ...
}

TransportLayerAddress           ::= BIT STRING (SIZE(1..160, ...))
```

TEXT OMITTED

3GPP TSG-RAN WG3 Meeting #27
Orlando, USA, February 18-22, 2002

R3-020649

CR-Form-v5

CHANGE REQUEST

⌘ **25.433** **CR** **627** ⌘ **rev** **1** ⌘ Current version: **3.8.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network ☐

Title:	⌘	Removing of channel coding option "no coding" for FDD and 3.84Mcps TDD
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	18.02.2002
Category:	⌘	**F**
Release:	⌘	R99

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.

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 change:	⌘	In the last joint RAN1/RAN2 meeting Feb. 5-6, 2002 it has been agreed to remove the channel coding option “no coding” for FDD and 3.84 Mcps TDD from Rel.99 & REL-4 since 'this feature was not used by anyone'.
Summary of change:	⌘	The type of channel coding "no coding" is removed in the tabular format and in the ASN.1 code by replacing it by a dummy parameter 'void'. Revision 1: CR cover page and semantic description modified. **Isolated impact analysis**: Impact assessment towards the previous version of the specification (same release): This CR has no impact with the previous version of the specification (same release) because the removed type of channel coding wasn't used at all and in the ASN.1 the value 'no coding' is just replaced by the dummy parameter 'void'.
Consequences if not approved:	⌘	"no coding" option would still be possible.

Clauses affected:	⌘	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 628r1 25.433 v4.3.0
affected:		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.

TEXT OMITTED

9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 to <maxTFcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport blocks	M		INTEGER (0..512)	
>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE *Mode*	M			
>>*TDD*				
>>>**Transmission Time interval Information**	C-TTIdynamic	1 to <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,…)	ms Value “dynamic” for TDD only
>Type of channel coding	M		ENUMERATED (Void~~No coding~~, 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	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24,…)	
>CHOICE *Mode*	M			
>>*TDD*				
>>>2^{nd} interleaving mode	M		Enumerated(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 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.
MaxTTIcount	The amount of different TTI that are possible for that transport format.

TEXT OMITTED

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
'turbo'
    rateMatcingAttribute           TransportFormatSet-RateMatchingAttribute,
    cRC-Size                       TransportFormatSet-CRC-Size,
    mode                           TransportFormatSet-ModeSSP  ,
    iE-Extensions                  ProtocolExtensionContainer { { TransportFormatSet-Semi-
staticPart-ExtIEs} }        OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    void~~no-coding~~,
    convolutional-coding,
    turbo-coding,
    ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
}
```

TEXT OMITTED

3GPP TSG-RAN WG3 Meeting #27
Orlando, USA, February 18-22, 2002

R3-020650

CR-Form-v5

CHANGE REQUEST

⌘ **25.433** **CR** **628** ⌘ **rev** **1** ⌘ Current version: **4.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network ☐

Title:	⌘	Removing of channel coding option "no coding" for FDD and 3.84Mcps TDD
Source:	⌘	R-WG3
Work item code:	⌘	TEI
Date:	⌘	18.02.2002
Category:	⌘	**F**
Release:	⌘	REL-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
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REL-5 (Release 5)

Reason for change:	⌘	In the last joint RAN1/RAN2 meeting Feb. 5-6, 2002 it has been agreed to remove the channel coding option “no coding” for FDD and 3.84 Mcps TDD from Rel.99 & REL-4 since 'this feature was not used by anyone'.
Summary of change:	⌘	The type of channel coding "no coding" is removed in the tabular format and in the ASN.1 code by replacing it by a dummy parameter 'void' as done for Rel.99. For Rel.4 for 1.28Mcps TDD this 'no coding' option should still exist. Therefore a new option 'No coding LCR' was introduced after the ellipsis. Revision 1: CR cover page and semantic description modified. **Isolated impact analysis**: Impact assessment towards the previous version of the specification (same release): For **FDD and 3.84Mcps TDD** this CR has no impact with the previous version of the specification (same release) because the removed type of channel coding wasn't used at all for FDD and 3.84Mcps TDD and in the ASN.1 the value 'no coding' is just replaced by the dummy parameter 'void'. For **1.28Mcps TDD** this CR has isolated impact with the previous version of the specification (same release) because the former 'No coding' option is replaced by 'No codingLCR'. So this CR has an impact under protocol point of view for cases where 'no coding' is used for 1.28Mcps TDD. The impact can be considered isolated because the change affects only the channel coding type.
Consequences if not approved:	⌘	"no coding" option would still be possible.

Clauses affected:	⌘	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 O&M Specifications	
Other comments:	⌘		

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://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.

TEXT OMITTED

9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Dynamic Transport Format Information		1 to <maxTFcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport blocks	M		INTEGER (0..512)	
>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE *Mode*	M			
>>*TDD*				
>>>**Transmission Time interval Information**	C-TTIdynamic	1 to <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 (Void~~No coding~~, Convolutional, 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		ENUMERATED (1/2, 1/3,…)	
>Rate matching attribute	M		INTEGER (1..maxRM)	
>CRC size	M		ENUMERATED (0, 8, 12, 16, 24,…)	
>CHOICE *Mode*	M			
>>*TDD*				
>>>2nd interleaving mode	M		Enumerated(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 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.
MaxTTIcount	The amount of different TTI that are possible for that transport format.

TEXT OMITTED

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
'turbo'
    rateMatcingAttribute            TransportFormatSet-RateMatchingAttribute,
    cRC-Size                        TransportFormatSet-CRC-Size,
    mode                            TransportFormatSet-ModeSSP  ,
    iE-Extensions                   ProtocolExtensionContainer { { TransportFormatSet-Semi-
staticPart-ExtIEs} }        OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    voidno-coding,
    convolutional-coding,
    turbo-coding,
    ...,
    no-codingLCR
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
}
```

TEXT OMITTED