TSG RAN Meeting #22 **RP-030590**
Maui, Hawaii, US, 9 - 12 December 2003

Title **CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.101, "Correction of W-CDMA modulated interferer definition"**
Source **TSG RAN WG4**
Agenda Item **7.5.3**

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-031087	25.101	300	1	F	R99	3.15.0	Correction of W-CDMA modulated interferer definition	TEI
R4-031088	25.101	301	1	A	Rel-4	4.9.0	Correction of W-CDMA modulated interferer definition	TEI
R4-031089	25.101	306		A	Rel-5	5.8.0	Correction of W-CDMA modulated interferer definition	TEI
R4-031090	25.101	307		A	Rel-6	6.2.0	Correction of W-CDMA modulated interferer definition	TEI

3GPP TSG RAN WG4 (Radio) Meeting #29 **R4-031087**

San Diego, USA 17 - 21 November 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.101** **CR** **300** ⌘ **rev** **1** ⌘ Current version: **3.15.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Correction to W-CDMA modulated interferer definition
Source:	⌘	RAN WG4
Work item code:	⌘	TEI
Date:	⌘	26/11/2003
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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The control channels for the W-CDMA modulated interferer definition are not defined relative to the overall interferer power level.
Summary of change:	⌘	In table E.4 the power of the control channels is modified to be relative to the power of the interferer. A note is added to table C.6 to indicate that the power levels of the OCNS channels are relative to each other and that they need to be modified relative to Ior depending on which signal they are to be used in so that the total power adds to one (0 dB).
Consequences if not approved:	⌘	The current definition does not define the relative power between the control channel part and the OCNS part of the modulated interferer. Without this change the signal cannot be reliably generated and this may have consequences on the reliability of the tests that use the W-CDMA modulated interferer.

Clauses affected:	⌘	C3.4, C.4			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	
			X	Test specifications	34.121
			X	O&M Specifications	
Other comments:	⌘	Equivalent CRs in other Releases: CR301r1 cat. A to 25.101 v4.9.0, CR306r1			

	cat. A to 25.101 v5.8.0, CR307r1 cat. A to 25.101 v6.2.0

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.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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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.

C.3.4 Connection with closed loop transmit diversity mode

Table C.5 is applicable for measurements for subclause 8.6.2 (Demodulation of DCH in closed loop transmit diversity mode).

Table C.5: Downlink Physical Channels transmitted during a connection[1]

Physical Channel	Power ratio	NOTE
P-CPICH (antenna 1)	P-CPICH_Ec1/Ior = -13 dB	1. Total P-CPICH_Ec/Ior = -10 dB
P-CPICH (antenna 2)	P-CPICH_Ec2/Ior = -13 dB	
P-CCPCH (antenna 1)	P-CCPCH_Ec1/Ior = -15 dB	1. STTD applied
P-CCPCH (antenna 2)	P-CCPCH_Ec2/Ior = -15 dB	1. STTD applied, 2. total P-CCPCH_Ec/Ior = -12 dB
SCH (antenna 1 / 2)	SCH_Ec/Ior = -12 dB	1. TSTD applied
PICH (antenna 1)	PICH_Ec1/Ior = -18 dB	1. STTD applied
PICH (antenna 2)	PICH_Ec2/Ior = -18 dB	2. STTD applied, total PICH_Ec/Ior = -15 dB
DPCH	Test dependent power	1. Total power from both antennas
OCNS	Necessary power so that total transmit power spectral density of Node B (Ior) adds to one[1]	1.This power shall be divided equally between antennas 2. OCNS interference consists of 16 dedicated data channels. as specified in Table C.6.

NOTE 1 For dynamic power correction required to compensate for the presence of transient channels, e.g. control channels, a subset of the DPCH channels may be used.

Table C.6: DPCH Channelization Code and relative level settings for OCNS signal

Channelization Code at SF=128	Relative Level setting[1] (dB)	DPCH Data
2	-1	The DPCH data for each channelization code shall be uncorrelated with each other and with any wanted signal over the period of any measurement.
11	-3	
17	-3	
23	-5	
31	-2	
38	-4	
47	-8	
55	-7	
62	-4	
69	-6	
78	-5	
85	-9	
94	-10	
125	-8	
113	-6	
119	0	

Note 1 The relative level setting specified in dB refers only to the relationship between the OCNS channels. The level of the OCNS channels relative to the Ior of the complete signal is a function of the power of the other channels in the signal with the intention that the power of the group of OCNS channels is used to make the total signal add up to 1.

C.4 W-CDMA Modulated Interferer

Table C.7 describes the downlink ~~Physical Control~~ Channels that are transmitted as part of the W-CDMA modulated interferer.

Table C.7: Spreading Code, Timing offsets and relative level settings for W-CDMA Modulated Interferer signal ~~control~~ channels

Channel Type	Spreading Factor	Channelization Code	Timing offset (x256T_{chip})	~~Relative level setting (dB)~~Power	NOTE
P-CCPCH	256	1	0	P-CCPCH_Ec/Ior = –10 dB~~ 1~~	
SCH	256	-	0	SCH_Ec/Ior = –10 dB ~~1~~	The SCH power shall be divided equally between Primary and Secondary Synchronous channels
P-CPICH	256	0	0	P-CPICH_Ec/Ior = –10 dB~~ 1~~	
PICH	256	16	16	PICH_Ec/Ior = –15 dB~~ 6~~	
OCNS	See table C.6			Necessary power so that total transmit power spectral density of Node B (Ior) adds to one	OCNS interference consists of the dedicated data channels. as specified in Table C.6.

~~See table C.6 for the definition of the 16 DPCH portion of the W-CDMA modulated interferer.~~

3GPP TSG RAN WG4 (Radio) Meeting #29 **R4-031088**

San Diego, USA 17 - 21 November 2003

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CHANGE REQUEST

⌘ **25.101** **CR** **301** ⌘ **rev** **1** ⌘ Current version: **4.9.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Correction to W-CDMA modulated interferer definition
Source:	⌘	RAN WG4
Work item code:	⌘	TEI
Date:	⌘	26/11/2003
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)*
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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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The control channels for the W-CDMA modulated interferer definition are not defined relative to the overall interferer power level.
Summary of change:	⌘	In table E.4 the power of the control channels is modified to be relative to the power of the interferer. A note is added to table C.6 to indicate that the power levels of the OCNS channels are relative to each other and that they need to be modified relative to Ior depending on which signal they are to be used in so that the total power adds to one (0 dB).
Consequences if not approved:	⌘	The current definition does not define the relative power between the control channel part and the OCNS part of the modulated interferer. Without this change the signal cannot be reliably generated and this may have consequences on the reliability of the tests that use the W-CDMA modulated interferer.

Clauses affected:	⌘	C3.4, C.4			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	
					34.121
		X /	Test specifications		
		/ X	O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR300r1 cat. F to 25.101 v3.15.0, CR306r1			

	cat. A to 25.101 v5.8.0, CR307r1 cat. A to 25.101 v6.2.0

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C.3.4 Connection with closed loop transmit diversity mode

Table C.5 is applicable for measurements for subclause 8.6.2 (Demodulation of DCH in closed loop transmit diversity mode).

Table C.5: Downlink Physical Channels transmitted during a connection[1]

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P-CPICH (antenna 2)	P-CPICH_Ec2/Ior = -13 dB	
P-CCPCH (antenna 1)	P-CCPCH_Ec1/Ior = -15 dB	1. STTD applied
P-CCPCH (antenna 2)	P-CCPCH_Ec2/Ior = -15 dB	1. STTD applied, 2. total P-CCPCH_Ec/Ior = -12 dB
SCH (antenna 1 / 2)	SCH_Ec/Ior = -12 dB	1. TSTD applied
PICH (antenna 1)	PICH_Ec1/Ior = -18 dB	1. STTD applied
PICH (antenna 2)	PICH_Ec2/Ior = -18 dB	2. STTD applied, total PICH_Ec/Ior = -15 dB
DPCH	Test dependent power	1. Total power from both antennas
OCNS	Necessary power so that total transmit power spectral density of Node B (Ior) adds to one[1]	1.This power shall be divided equally between antennas 2. OCNS interference consists of 16 dedicated data channels. as specified in Table C.6.

NOTE 1 For dynamic power correction required to compensate for the presence of transient channels, e.g. control channels, a subset of the DPCH channels may be used.

Table C.6: DPCH Channelization Code and relative level settings for OCNS signal

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85	-9	
94	-10	
125	-8	
113	-6	
119	0	

Note 1 The relative level setting specified in dB refers only to the relationship between the OCNS channels. The level of the OCNS channels relative to the Ior of the complete signal is a function of the power of the other channels in the signal with the intention that the power of the group of OCNS channels is used to make the total signal add up to 1.

C.4 W-CDMA Modulated Interferer

Table C.7 describes the downlink ~~Physical Control~~ Channels that are transmitted as part of the W-CDMA modulated interferer.

Table C.7: Spreading Code, Timing offsets and relative level settings for W-CDMA Modulated Interferer signal ~~control~~ channels

Channel Type	Spreading Factor	Channelization Code	Timing offset (x256T_{chip})	~~Relative level setting (dB)~~Power	NOTE
P-CCPCH	256	1	0	P-CCPCH_Ec/Ior = –10 dB~~-1~~	
SCH	256	-	0	SCH_Ec/Ior = –10 dB ~~-1~~	The SCH power shall be divided equally between Primary and Secondary Synchronous channels
P-CPICH	256	0	0	P-CPICH_Ec/Ior = –10 dB~~-1~~	
PICH	256	16	16	PICH_Ec/Ior = –15 dB~~-6~~	
OCNS	See table C.6			Necessary power so that total transmit power spectral density of Node B (Ior) adds to one	OCNS interference consists of the dedicated data channels. as specified in Table C.6.

~~See table C.6 for the definition of the 16 DPCH portion of the W-CDMA modulated interferer.~~

3GPP TSG RAN WG4 (Radio) Meeting #29 **R4-031089**

San Diego, USA 17 - 21 November 2003

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CHANGE REQUEST

⌘ **25.101** **CR** **306** ⌘ **rev** ⌘ Current version: **5.8.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Correction to W-CDMA modulated interferer definition
Source:	⌘	RAN WG4
Work item code:	⌘	TEI
Date:	⌘	26/11/2003
Category:	⌘	**A**
Release:	⌘	Rel-5

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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The control channels for the W-CDMA modulated interferer definition are not defined relative to the overall interferer power level.
Summary of change:	⌘	In table E.4 the power of the control channels is modified to be relative to the power of the interferer. A note is added to table C.6 to indicate that the power levels of the OCNS channels are relative to each other and that they need to be modified relative to Ior depending on which signal they are to be used in so that the total power adds to one (0 dB).
Consequences if not approved:	⌘	The current definition does not define the relative power between the control channel part and the OCNS part of the modulated interferer. Without this change the signal cannot be reliably generated and this may have consequences on the reliability of the tests that use the W-CDMA modulated interferer.

Clauses affected:	⌘	C3.4, C.4			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	34.121
			Test specifications		
			O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR300 cat. F to 25.101 v3.15.0, CR301 cat. A			

	to 25.101 v4.9.0, CR307 cat. A to 25.101 v6.2.0

How to create CRs using this form:

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C.3.4 Connection with closed loop transmit diversity mode

Table C.5 is applicable for measurements for subclause 8.6.2 (Demodulation of DCH in closed loop transmit diversity mode).

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P-CCPCH (antenna 2)	P-CCPCH_Ec2/Ior = -15 dB	1. STTD applied, 2. total P-CCPCH_Ec/Ior = -12 dB
SCH (antenna 1 / 2)	SCH_Ec/Ior = -12 dB	1. TSTD applied
PICH (antenna 1)	PICH_Ec1/Ior = -18 dB	1. STTD applied
PICH (antenna 2)	PICH_Ec2/Ior = -18 dB	2. STTD applied, total PICH_Ec/Ior = -15 dB
DPCH	Test dependent power	1. Total power from both antennas
OCNS	Necessary power so that total transmit power spectral density of Node B (Ior) adds to one[1]	1.This power shall be divided equally between antennas 2. OCNS interference consists of 16 dedicated data channels. as specified in Table C.6.

NOTE 1 For dynamic power correction required to compensate for the presence of transient channels, e.g. control channels, a subset of the DPCH channels may be used.

Table C.6: DPCH Channelization Code and relative level settings for OCNS signal

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62	-4	
69	-6	
78	-5	
85	-9	
94	-10	
125	-8	
113	-6	
119	0	

Note 1 The relative level setting specified in dB refers only to the relationship between the OCNS channels. The level of the OCNS channels relative to the Ior of the complete signal is a function of the power of the other channels in the signal with the intention that the power of the group of OCNS channels is used to make the total signal add up to 1.

C.4 W-CDMA Modulated Interferer

Table C.7 describes the downlink ~~Physical Control~~ Channels that are transmitted as part of the W-CDMA modulated interferer.

Table C.7: Spreading Code, Timing offsets and relative level settings for W-CDMA Modulated Interferer signal ~~control~~ channels

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P-CPICH	256	0	0	P-CPICH_Ec/Ior = –10 dB~~ 1~~	
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OCNS	See table C.6			Necessary power so that total transmit power spectral density of Node B (Ior) adds to one	OCNS interference consists of the dedicated data channels. as specified in Table C.6.

~~See table C.6 for the definition of the 16 DPCH portion of the W-CDMA modulated interferer.~~

3GPP TSG RAN WG4 (Radio) Meeting #29 **R4-031090**

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CR-Form-v7

CHANGE REQUEST

⌘ **25.101** **CR** **307** ⌘ **rev** ⌘ Current version: **6.2.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Correction to W-CDMA modulated interferer definition
Source:	⌘	RAN WG4
Work item code:	⌘	TEI
Date:	⌘	26/11/2003
Category:	⌘	**A**
Release:	⌘	Rel-6

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)*
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Rel-4	*(Release 4)*
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Reason for change:	⌘	The control channels for the W-CDMA modulated interferer definition are not defined relative to the overall interferer power level.
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Consequences if not approved:	⌘	The current definition does not define the relative power between the control channel part and the OCNS part of the modulated interferer. Without this change the signal cannot be reliably generated and this may have consequences on the reliability of the tests that use the W-CDMA modulated interferer.

Clauses affected:	⌘	C3.4, C.4			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	
			☐ / ☒		
		☒ / ☐	Test specifications		34.121
			☐ / ☒		
			O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR300 cat. F to 25.101 v3.15.0, CR301 cat. A			

	to 25.101 v4.9.0, CR306 cat. A to 25.101 v5.8.0

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C.3.4 Connection with closed loop transmit diversity mode

Table C.5 is applicable for measurements for subclause 8.6.2 (Demodulation of DCH in closed loop transmit diversity mode).

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P-CCPCH (antenna 2)	P-CCPCH_Ec2/Ior = -15 dB	1. STTD applied, 2. total P-CCPCH_Ec/Ior = -12 dB
SCH (antenna 1 / 2)	SCH_Ec/Ior = -12 dB	1. TSTD applied
PICH (antenna 1)	PICH_Ec1/Ior = -18 dB	1. STTD applied
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Table C.7 describes the downlink ~~Physical Control~~ Channels that are transmitted as part of the W-CDMA modulated interferer.

Table C.7: Spreading Code, Timing offsets and relative level settings for W-CDMA Modulated Interferer signal ~~control~~ channels

Channel Type	Spreading Factor	Channelization Code	Timing offset (x256T_{chip})	~~Relative level setting (dB)~~Power	NOTE
P-CCPCH	256	1	0	P-CCPCH_Ec/Ior = –10 dB~~ 1~~	
SCH	256	-	0	SCH_Ec/Ior = –10 dB ~~-1~~	The SCH power shall be divided equally between Primary and Secondary Synchronous channels
P-CPICH	256	0	0	P-CPICH_Ec/Ior = –10 dB~~ 1~~	
PICH	256	16	16	PICH_Ec/Ior = –15 dB~~ 6~~	
OCNS	See table C.6			Necessary power so that total transmit power spectral density of Node B (Ior) adds to one	OCNS interference consists of the dedicated data channels. as specified in Table C.6.

~~See table C.6 for the definition of the 16 DPCH portion of the W-CDMA modulated interferer.~~