3GPP TSG_CN

Tdoc NP-000543
Rev from Tdoc NP-000471

Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Source: **TSG_N WG 3**

Title: **CRs to R99 Work Item T.E.I (CS Data Services) part 4 of 4**

Agenda item: **8.6.3**

Document for: **APPROVAL**

Introduction:

This document contains **8** CRs on **R99** Work Item **CS Data Services**, that has been agreed by **TSG_N WG3**, and is forwarded to TSG_N Plenary meeting #9 for approval.

Doc-2nd-	Spec	CR	Rev	Phase	Subject	Cat	Version-
N3-000368	23.910	009		R99	Cleanup of RAB parameter setting	F	3.1.0
N3-000369	23.910	013		R00	Cleanup of RAB parameter setting	A	3.1.0
N3-000370	27.001	026		R99	Cleanup of RAB parameter setting	F	3.5.0
N3-000371	27.001	027		R00	Cleanup of RAB parameter setting	A	4.0.0
N3-000424	27.001	035		R99	Delivery of erroneous SDUs parameter value	F	3.5.0
N3-000425	27.001	040		R00	Delivery of erroneous SDUs parameter value	A	4.0.0
N3-000426	23.910	016		R99	Delivery of erroneous SDUs parameter value	F	3.1.0
N3-000427	23.910	015		R00	Delivery of erroneous SDUs parameter value	A	3.1.0

3GPP TSG-N3 #11
Oslo, Norway 10th-14th July 2000

N3-000368

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.910	CR	009	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-N#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [X] Core Network [X]

Source: TSG_N3 **Date:** 2000-06-09

Subject: Cleanup of RAB parameter setting

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:

1) Upon recommendation from N3 to S2 to keep the streaming traffic class for NT data services (LS N3-000170), S2 has agreed to keep the value range as defined in 23.107, specifying a transfer delay minimum value of 250 ms. (LS answer S2-000995). This minimum value does not match with the currently specified value in table B.1.13.2, specifying < 250 ms. To align 23.107 with 23.910, and further on, to avoid interpretation of 250 ms being a maximum value, it is proposed to remove the inequality sign from the transfer delay value. It is also proposed to remove the inequality sign from the SDU error ratio.
2) According to agreed CR N3-000261, SDU sizes for T data need to be aligned accordingly.
3) According to agreed CR R3-0001454, a note has been added clarifying the relation between RAB subflow combination bit rates and maximum bit rate values.

Clauses affected: 5.2.1, 5.2.2, 6.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:	23.910CR013, 27.001CR026 and 27.001CR027
Other GSM core specifications	[ ]	→ List of CRs:	
MS test specifications	[ ]	→ List of CRs:	
BSS test specifications	[ ]	→ List of CRs:	
O&M specifications	[ ]	→ List of CRs:	

Other comments:

5.2.1 Non-transparent services, including Fax

Service identified by the BC IE			Non-transparent data	Comments
Traffic Class			Streaming	Subject to operator tuning
RAB Asymmetry Indicator			Symmetric	
Maximum bit rate (1)			14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate			14,4 kbit/s	Operator can choose 14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.
Delivery Order			Yes	
Maximum SDU size			576 bits	
Transfer Delay			< 250 ms	Subject to operator tuning
Traffic Handling Priority			-	Not applicable to the streaming traffic class
Source statistics descriptor			Unknown	
SDU Parameters				
	SDU error ratio		< 10 %	Subject to operator tuning
	Residual bit error ratio		10^{-3}	Subject to operator tuning.
	Delivery of erroneous SDUs		No	
	SDU format information			
		RAB Subflow Combination bit rate	57,6 kbit/s	(note 2)
		RAB Subflow Combination bit rate	28,8 kbit/s	(note 2)
		RAB Subflow Combination bit rate	14,4 kbit/s	
		RAB Subflow Combination bit rate	0 kbit/s	Indicates DTX, RFCI is not assigned

NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

5.2.2 Transparent Data, including Multimedia

Service identified by the BC IE		Transparent data and BS for support of multimedia service	Comments
Traffic Class		Conversational	Subject to operator tuning
Maximum bit rate		= guaranteed bit rate	
Guaranteed bit rate		FNUR = 64 .. 28.8 kbit/s	GBR for FNUR=56 kbit/s is 64 kbit/s (note 1)
Delivery Order		Yes	
Maximum SDU size		640 ~~.. 280~~ bits ~~(depending on the FNUR)~~ for FNUR=32, 56 and 64 kbit/s 576 bits for FNUR=28.8 kbit/s	~~Maximum SDU size for FNUR=56 kbit/s is 640 bits~~(note 2)
Transfer Delay		< 200 ms	Subject to operator tuning
Traffic Handling Priority		-	Not applicable for the conversational traffic class
Source statistics descriptor		Unknown	
SDU Parameters			
	SDU error ratio	-	Not applicable
	Residual bit error ratio	10^{-4}	Subject to operator tuning according to 3G TS 23.107. Operator may also choose different value for Multimedia and other transparent data services.
	Delivery of erroneous SDUs	-	No error detection in the core network
NOTE 1: In case the FNUR = 56 kbit/s, the GBR is set to 64 kbit/s. Last bit in each data octet is set to 1. NOTE 2: The maximum SDU size for FNUR=33.6 kbit/s is still under discussion.			

6 Iu User Plane

6.2 T services

The Iu UP is used in transparent mode, see 3G TS 25.415. The payload of the Iu frame will consist of user data bits only.

The payload (SDU) size is fixed, determined by the bit rate. Following table shows SDU size defined by GSM Association - IMT-2000 Steering Group (Typical Radio Interface Parameter Sets). AAL2 is used. The AAL2 SSCS layer must be supported for segmentation and re-assembly.

Bit rate	SDU size (= RLC PDU payload size)
28.8 kbit/s	~~[Editor's note] Waiting for decision by GSM Association~~576 bits
33.6 kbit/s	[Editor's note] Waiting for decision by GSM Association
32 kbit/s	640 bits
56/64 kbit/s	640 bits

The primitive Iu-UP_UNIT-DATA-REQUEST is invoked at regular intervals in order to have a constant bit rate (every SDU).

3GPP TSG-N3 #11
Oslo, Norway 10th-14th July 2000

N3-000369

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.910	CR	013	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-N#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [X] Core Network [X]

Source: TSG_N3 **Date:** 2000-06-09

Subject: Cleanup of RAB parameter setting

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release	X		Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change:

1) Upon recommendation from N3 to S2 to keep the streaming traffic class for NT data services (LS N3-000170), S2 has agreed to keep the value range as defined in 23.107, specifying a transfer delay minimum value of 250 ms. (LS answer S2-000995). This minimum value does not match with the currently specified value in table B.1.13.2, specifying < 250 ms. To align 23.107 with 23.910, and further on, to avoid interpretation of 250 ms being a maximum value, it is proposed to remove the inequality sign from the transfer delay value. It is also proposed to remove the inequality sign from the SDU error ratio.
2) According to agreed CR N3-000261, SDU sizes for T data need to be aligned accordingly.
3) According to agreed CR R3-0001454, a note has been added clarifying the relation between RAB subflow combination bit rates and maximum bit rate values.

Clauses affected: 5.2.1, 5.2.2, 6.2

Other specs affected:

Other 3G core specifications		→ List of CRs:	23.910CR009, 27.001CR026 and 27.001CR027
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

5.2.1 Non-transparent services, including Fax

Service identified by the BC IE			Non-transparent data	Comments
Traffic Class			Streaming	Subject to operator tuning
RAB Asymmetry Indicator			Symmetric	
Maximum bit rate (1)			14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate			14,4 kbit/s	Operator can choose 14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.
Delivery Order			Yes	
Maximum SDU size			576 bits	
Transfer Delay			< 250 ms	Subject to operator tuning
Traffic Handling Priority			-	Not applicable to the streaming traffic class
Source statistics descriptor			Unknown	
SDU Parameters				
	SDU error ratio		< 10 %	Subject to operator tuning
	Residual bit error ratio		10^{-3}	Subject to operator tuning.
	Delivery of erroneous SDUs		No	
	SDU format information			
		RAB Subflow Combination bit rate	57,6 kbit/s	(note 2)
		RAB Subflow Combination bit rate	28,8 kbit/s	(note 2)
		RAB Subflow Combination bit rate	14,4 kbit/s	
		RAB Subflow Combination bit rate	0 kbit/s	Indicates DTX, RFCI is not assigned

NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

5.2.2 Transparent Data, including Multimedia

Service identified by the BC IE		Transparent data and BS for support of multimedia service	Comments
Traffic Class		Conversational	Subject to operator tuning
Maximum bit rate		= guaranteed bit rate	
Guaranteed bit rate		FNUR = 64 .. 28.8 kbit/s	GBR for FNUR=56 kbit/s is 64 kbit/s (note 1)
Delivery Order		Yes	
Maximum SDU size		640 ~~.. 280~~ bits ~~(depending on the FNUR)~~ for FNUR=32, 56 and 64 kbit/s 576 bits for FNUR=28.8 kbit/s	~~Maximum SDU size for FNUR=56 kbit/s is 640 bits~~(note 2)
Transfer Delay		< 200 ms	Subject to operator tuning
Traffic Handling Priority		-	Not applicable for the conversational traffic class
Source statistics descriptor		Unknown	
SDU Parameters			
	SDU error ratio	-	Not applicable
	Residual bit error ratio	10^{-4}	Subject to operator tuning according to 3G TS 23.107. Operator may also choose different value for Multimedia and other transparent data services.
	Delivery of erroneous SDUs	-	No error detection in the core network
NOTE 1: In case the FNUR = 56 kbit/s, the GBR is set to 64 kbit/s. Last bit in each data octet is set to 1. NOTE 2: The maximum SDU size for FNUR=33.6 kbit/s is still under discussion.			

6 Iu User Plane

6.2 T services

The Iu UP is used in transparent mode, see 3G TS 25.415. The payload of the Iu frame will consist of user data bits only.

The payload (SDU) size is fixed, determined by the bit rate. Following table shows SDU size defined by GSM Association - IMT-2000 Steering Group (Typical Radio Interface Parameter Sets). AAL2 is used. The AAL2 SSCS layer must be supported for segmentation and re-assembly.

Bit rate	SDU size (= RLC PDU payload size)
28.8 kbit/s	~~[Editor's note] Waiting for decision by GSM Association~~576 bits
33.6 kbit/s	[Editor's note] Waiting for decision by GSM Association
32 kbit/s	640 bits
56/64 kbit/s	640 bits

The primitive Iu-UP_UNIT-DATA-REQUEST is invoked at regular intervals in order to have a constant bit rate (every SDU).

3GPP TSG-N3 #11
Oslo, Norway 10th-14th July 2000

N3-000370

CHANGE REQUEST

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27.001	CR	026	Current Version:	3.5.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-N#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: TSG_N3 **Date:** 2000-06-09

Subject: Cleanup of RAB parameter setting

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:

1) Upon recommendation from N3 to S2 to keep the streaming traffic class for NT data services (LS N3-000170), S2 has agreed to keep the value range as defined in 23.107, specifying a transfer delay minimum value of 250 ms. (LS answer S2-000995). This minimum value does not match with the currently specified value in table B.1.13.2, specifying < 250 ms. To align 23.107 with 27.001, and further on, to avoid interpretation of 250 ms being a maximum value, it is proposed to remove the inequality sign from the transfer delay value. It is also proposed to remove the inequality sign from the SDU error ratio value.
2) According to agreed CR N3-000261, SDU sizes for T data need to be aligned accordingly.
3) According to agreed CR R3-0001454, a note has been added clarifying the relation between RAB subflow combination bit rates and maximum bit rate values.

Clauses affected: B.1.13.1, B1.13.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:	23.910CR009, 23.910CR013 and 27.001CR027
Other GSM core specifications	[ ]	→ List of CRs:	
MS test specifications	[ ]	→ List of CRs:	
BSS test specifications	[ ]	→ List of CRs:	
O&M specifications	[ ]	→ List of CRs:	

Other comments:

B.1.13.1 Transparent Services

Depending on the FNUR negotiated between the network and the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Conversational	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	= guaranteed bit rate	
Guaranteed bit rate	FNUR = 64 .. 28,8 kbit/s	GBR for FNUR=56 kbit/s is 64 kbit/s (note 1)
Delivery Order	Yes	
Maximum SDU size	640 ~~.. 288~~ bits for FNUR = 32, 56 and 64 kbit/s~~(depending on the FNUR)~~ 576 bits for FNUR = 28.8 kbit/s	~~Maximum SDU size for FNUR=56 kbit/s is 640 bits~~(note 2)
Transfer Delay	< 200 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable for the conversational traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	-	Not applicable
Residual bit error ratio	10^{-4}	Subject to operator tuning according to 3G TS 23.107. Operator may also choose different value for Multimedia and other transparent data services.
Delivery of erroneous SDUs	-	No error detection in the core network

Note 1: In case the FNUR = 56 kbit/s, the GBR is set to 64 kbit/s. Last bit in each data octet is set to 1

Note 2: The maximum SDU size for bit rate 33.6 kbit/s is still under discussion.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate	14.4 kbit/s	Operator can choose 14.4, 28.8 or 57.6 kbit/s.
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	~~<~~ 250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	~~<~~ 10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	(note 2)
RAB Subflow Combination bit rate	28.8 kbit/s	(note 2)
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	Indicates DTX, RFCI is not assigned

NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

~~NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

3GPP TSG-N3 #11
Oslo, Norway 10th-14th July 2000

N3-000371

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

27.001	CR	027	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: TSG-N#9 *list expected approval meeting # here ↑*

for approval [X]
for information [ ]

strategic [ ]
non-strategic [ ]
(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: TSG_N3 **Date:** 2000-06-09

Subject: Cleanup of RAB parameter setting

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release	X		Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change:

1) Upon recommendation from N3 to S2 to keep the streaming traffic class for NT data services (LS N3-000170), S2 has agreed to keep the value range as defined in 23.107, specifying a transfer delay minimum value of 250 ms. (LS answer S2-000995). This minimum value does not match with the currently specified value in table B.1.13.2, specifying < 250 ms. To align 23.107 with 27.001, and further on, to avoid interpretation of 250 ms being a maximum value, it is proposed to remove the inequality sign from the transfer delay value. It is also proposed to remove the inequality sign from the SDU error ratio value.
2) According to agreed CR N3-000261, SDU sizes for T data need to be aligned accordingly.
3) According to agreed CR R3-0001454, a note has been added clarifying the relation between RAB subflow combination bit rates and maximum bit rate values.

Clauses affected: B.1.13.1, B1.13.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:	23.910CR009, 23.910CR013 and 27.001CR026
Other GSM core specifications	[ ]	→ List of CRs:	
MS test specifications	[ ]	→ List of CRs:	
BSS test specifications	[ ]	→ List of CRs:	
O&M specifications	[ ]	→ List of CRs:	

Other comments:

B.1.13.1 Transparent Services

Depending on the FNUR negotiated between the network and the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Conversational	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	= guaranteed bit rate	
Guaranteed bit rate	FNUR = 64 .. 28,8 kbit/s	GBR for FNUR=56 kbit/s is 64 kbit/s (note 1)
Delivery Order	Yes	
Maximum SDU size	640 ~~.. 288~~ bits for FNUR = 32, 56 and 64 kbit/s~~(depending on the FNUR)~~ 576 bits for FNUR = 28.8 kbit/s	~~Maximum SDU size for FNUR=56 kbit/s is 640 bits~~(note 2)
Transfer Delay	< 200 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable for the conversational traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	-	Not applicable
Residual bit error ratio	10^{-4}	Subject to operator tuning according to 3G TS 23.107. Operator may also choose different value for Multimedia and other transparent data services.
Delivery of erroneous SDUs	-	No error detection in the core network

Note 1: In case the FNUR = 56 kbit/s, the GBR is set to 64 kbit/s. Last bit in each data octet is set to 1

Note 2: The maximum SDU size for bit rate 33.6 kbit/s is still under discussion.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate	14.4 kbit/s	Operator can choose 14.4, 28.8 or 57.6 kbit/s.
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	~~<~~ 250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	~~<~~ 10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	(note 2)
RAB Subflow Combination bit rate	28.8 kbit/s	(note 2)
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	Indicates DTX, RFCI is not assigned

NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

~~NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

3GPP N3 Meeting #12
Seattle, USA, 28 Aug-1 Sept 2000

***Document* N3-000424**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

27.001	CR	035	Current Version:	3.5.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio	X	Core Network	X

Source: TSG_CN3 **Date:** 2000-08-17

Subject: Delivery of erroneous SDUs parameter value

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X
A	Corresponds to a correction in an earlier release	
B	Addition of feature	
C	Functional modification of feature	
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	X
Release 00	

Reason for change: 3G TS 25.413 defines three possible values for the 'Delivery of erroneous SDUs' parameter:
Yes: error detection applied, erroneous SDU delivered
No: Error detection is applied , erroneous SDU discarded
no-error-detection-consideration: SDUs delivered without considering error detection.
For NT bearers, the third option is appropriate, since RLP provides the error detection mechanism.

Clauses affected:

Other specs affected:

Other 3G core specifications		→ List of CRs:	23.910 CR ??
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate	14.4 kbit/s	Operator can choose 14.4, 28.8 or 57.6 kbit/s.
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	< 250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	< 10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	~~N~~no error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	
RAB Subflow Combination bit rate	28.8 kbit/s	
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

3GPP N3 Meeting #12
Seattle, USA, 28 Aug-1 Sept 2000

***Document* N3-000425**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

27.001	CR	040	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio	X	Core Network	X

Source: TSG_N3 **Date:** 2000-08-17

Subject: Delivery of erroneous SDUs parameter value

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction		
A	Corresponds to a correction in an earlier release	X	
B	Addition of feature		
C	Functional modification of feature		
D	Editorial modification		

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	
Release 00	X

Reason for change:
3G TS 25.413 defines three possible values for the 'Delivery of erroneous SDUs' parameter:
Yes: error detection applied, erroneous SDU delivered
No: Error detection is applied , erroneous SDU discarded
no-error-detection-consideration: SDUs delivered without considering error detection.
For NT bearers, the third option is appropriate, since RLP provides the error detection mechanism.

Clauses affected:

Other specs affected:

Other 3G core specifications		→ List of CRs:	23.910 CR 15
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note 1)
Guaranteed bit rate	14.4 kbit/s	Operator can choose 14.4, 28.8 or 57.6 kbit/s.
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	< 250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	< 10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	~~N~~no error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	
RAB Subflow Combination bit rate	28.8 kbit/s	
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

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Seattle, USA, 28 Aug-1 Sept 2000

Document N3-000426
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.910	CR	016	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [X] Core Network [X]

Source: TSG_N3 **Date:** 2000-08-24

Subject: Delivery of erroneous SDUs parameter value

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X	
A	Corresponds to a correction in an earlier release		
B	Addition of feature		
C	Functional modification of feature		
D	Editorial modification		

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	X
Release 00	

Reason for change: 3G TS 25.413 defines three possible values for the 'Delivery of erroneous SDUs' parameter:
Yes: error detection applied, erroneous SDU delivered
No: Error detection is applied , erroneous SDU discarded
no-error-detection-consideration: SDUs delivered without considering error detection.
For NT bearers, the third option is appropriate, since RLP provides the error detection mechanism.

Clauses affected:

Other specs affected:

Other 3G core specifications		→ List of CRs:	27.001 CR 035
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

5.2.1 Non-transparent services, including Fax

Service identified by the BC IE			Non-transparent data	Comments
Traffic Class			Streaming	Subject to operator tuning
RAB Asymmetry Indicator			Symmetric	
Maximum bit rate (1)			14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note)
Guaranteed bit rate			14,4 kbit/s	Operator can choose 14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.
Delivery Order			Yes	
Maximum SDU size			576 bits	
Transfer Delay			< 250 ms	Subject to operator tuning
Traffic Handling Priority			-	Not applicable to the streaming traffic class
Source statistics descriptor			Unknown	
SDU Parameters				
	SDU error ratio		< 10 %	Subject to operator tuning
	Residual bit error ratio		10^{-3}	Subject to operator tuning.
	Delivery of erroneous SDUs		~~No~~no error detection consideration	
	SDU format information			
		RAB Subflow Combination bit rate	57,6 kbit/s	
		RAB Subflow Combination bit rate	28,8 kbit/s	
		RAB Subflow Combination bit rate	14,4 kbit/s	
		RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned
NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.				

3GPP N3 Meeting #12
Seattle, USA, 28 Aug-1 Sept 2000

Document N3-000427
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.910	CR	015	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio	X	Core Network	X

Source: TSG_N3 **Date:** 2000-08-24

Subject: Delivery of erroneous SDUs parameter value

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction		
A	Corresponds to a correction in an earlier release	X	
B	Addition of feature		
C	Functional modification of feature		
D	Editorial modification		

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	
Release 00	X

Reason for change:
3G TS 25.413 defines three possible values for the 'Delivery of erroneous SDUs' parameter:
Yes: error detection applied, erroneous SDU delivered
No: Error detection is applied , erroneous SDU discarded
no-error-detection-consideration: SDUs delivered without considering error detection.
For NT bearers, the third option is appropriate, since RLP provides the error detection mechanism.

Clauses affected:

Other specs affected:

Other 3G core specifications		→ List of CRs:	27.001 CR 40
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

5.2.1 Non-transparent services, including Fax

Service identified by the BC IE			Non-transparent data	Comments
Traffic Class			Streaming	Subject to operator tuning
RAB Asymmetry Indicator			Symmetric	
Maximum bit rate (1)			14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (note)
Guaranteed bit rate			14,4 kbit/s	Operator can choose 14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.
Delivery Order			Yes	
Maximum SDU size			576 bits	
Transfer Delay			< 250 ms	Subject to operator tuning
Traffic Handling Priority			-	Not applicable to the streaming traffic class
Source statistics descriptor			Unknown	
SDU Parameters				
	SDU error ratio		< 10 %	Subject to operator tuning
	Residual bit error ratio		10^{-3}	Subject to operator tuning.
	Delivery of erroneous SDUs		~~No~~no error detection consideration	
	SDU format information			
		RAB Subflow Combination bit rate	57,6 kbit/s	
		RAB Subflow Combination bit rate	28,8 kbit/s	
		RAB Subflow Combination bit rate	14,4 kbit/s	
		RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned
NOTE: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.				