

**TSG RAN Meeting #22**  
**Maui, USA, 9 - 12 December 2003**

**RP-030689**

**Title** CRs (Rel-5 only) to TS 25.423 and TS 25.433 on Correction of Transmission Gap Pattern Sequence Information  
**Source** TSG RAN WG3  
**Agenda Item** 7.4.6

<b>RAN3 Tdoc</b>	<b>Spec</b>	<b>curr. Vers.</b>	<b>new Vers.</b>	<b>REL</b>	<b>CR</b>	<b>Rev</b>	<b>Cat</b>	<b>Title</b>	<b>Work item</b>
R3-031700	25.423	5.7.0	5.8.0	REL-5	891	-	F	Correction of Transmission Gap Pattern Sequence Information	TEI5
R3-031699	25.433	5.6.0	5.7.0	REL-5	941	-	F	Correction of Transmission Gap Pattern Sequence Information	TEI5

## CHANGE REQUEST

# 25.423 CR 891 # rev - # Current version: 5.7.0 #

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

<b>Title:</b>	# Correction of Transmission Gap Pattern Sequence Information		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 12/11/2003
<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	2	(GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)	R96	(Release 1996)
	<b>B</b> (addition of feature),	R97	(Release 1997)
	<b>C</b> (functional modification of feature)	R98	(Release 1998)
	<b>D</b> (editorial modification)	R99	(Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4	(Release 4)
		Rel-5	(Release 5)
		Rel-6	(Release 6)

<b>Reason for change:</b>	# In the <i>Transmission Gap Pattern Sequence Information ID</i> , the <i>Downlink Compressed Mode Method</i> field's semantics description, the statement "None means that compressed mode pattern is stopped." is misleading. Indeed, it can lead to two different interpretations: <ol style="list-style-type: none"> <li>1. Set the value "None" in the enumerated, but there is no value "None" in the enumerated, then this interpretation is not valid.</li> <li>2. Leave out the IE even if its presence condition is true which will lead to an Abstract Syntax Error as specified in section 10.3.3, then this interpretation is neither valid.</li> </ol> <p>The understanding is that the compressed mode activation/deactivation can only be done by means of the <i>Active Pattern Sequence Information</i> IE rather than <i>Transmission Gap Pattern Sequence Information</i> IE. It is then propose to remove this ambiguous statement.</p>
<b>Summary of change:</b>	# In the <i>Downlink Compressed Mode Method</i> IE's semantics description, the statement "None means that compressed mode pattern is stopped" is removed. <p><u>Impact Analysis:</u></p> <p>Impact assessment towards the previous version of the specification (same release):</p> <p>This CR has [isolated impact] with the previous version of the specification (same release) because it might affect only compressed mode .</p> <p>This CR has an impact under [functional] point of view.                  The impact [can] be considered isolated because the change affects [one] [system function] namely the compressed mode deactivation.</p>

**Consequences if not approved:** ⌘

**Clauses affected:** ⌘ 9.2.2.47A

<b>Other specs affected:</b>	⌘	<table border="1"><tr><td>Y</td><td>N</td></tr><tr><td>X</td><td></td></tr><tr><td></td><td>X</td></tr><tr><td></td><td></td><td>X</td></tr></table>	Y	N	X			X			X	Other core specifications	⌘ CR941 25.433 Rel-5
		Y	N										
		X											
	X												
		X											
	X	Test specifications											
	X	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/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.
- 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.

### 9.2.2.47A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Transmission Gap Pattern Sequence Information</b>		1..<maxTGPS>		
>TGPSI Identifier	M		INTEGER(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		INTEGER(0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		INTEGER(1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	O		INTEGER(1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		INTEGER(0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		INTEGER(1..144,...)	The duration of transmission gap pattern 1 in frames.
>TGPL2	O		INTEGER(1..144,...)	The duration of transmission gap pattern 2 in frames. If omitted, then TGPL2=TGPL1.
>UL/DL mode	M		ENUMERATED(UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATED(puncturing, SF/2, higher layer scheduling, ...)	Method for generating downlink compressed mode gap. <del>None means that compressed mode pattern is stopped.</del>
>Uplink Compressed Mode Method	C-UL		ENUMERATED(SF/2, higher layer scheduling, ...)	Method for generating uplink compressed mode gap.
>Downlink Frame Type	M		ENUMERATED(A, B,...)	Defines if frame type 'A' or 'B' shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER(0..30)	Delta in SIR target value to be set in the DRNS during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) Step 0.1 dB, Range 0-3dB
>DeltaSIRafter1	M		INTEGER(0..30)	Delta in SIR target value to be set in the DRNS one frame after

				the frame containing the start of the first transmission gap in the transmission gap pattern,. Step 0.1 dB, Range 0-3dB
>DeltaSIR2	O		INTEGER (0..30)	Delta in SIR target value to be set in the DRNS during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1. Step 0.1 dB, Range 0-3dB
>DeltaSIRafter2	O		INTEGER (0..30)	Delta in SIR target value to be set in the DRNS one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1 dB, Range 0-3dB

Condition	Explanation
UL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "UL only" or "UL/DL".
DL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "DL only" or "UL/DL".

Range bound	Explanation
<i>maxTGPS</i>	Maximum number of transmission gap pattern sequences.

## CHANGE REQUEST

# **25.433 CR 941** # rev **-** # Current version: **5.6.0** #

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

<b>Title:</b>	# Correction of Transmission Gap Pattern Sequence Information		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 12/11/2003
<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
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			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	# In the <i>Transmission Gap Pattern Sequence Information ID</i> , the <i>Downlink Compressed Mode Method</i> field's semantics description, the statement "None means that compressed mode pattern is stopped." is misleading. Indeed, it can lead to two different interpretations: <ol style="list-style-type: none"> <li>1. Set the value "None" in the enumerated, but there is no value "None" in the enumerated, then this interpretation is not valid.</li> <li>2. Leave out the IE even if its presence condition is true which will lead to an Abstract Syntax Error as specified in section 10.3.3, then this interpretation is neither valid.</li> </ol> <p>The understanding is that the compressed mode activation/deactivation can only be done by means of the <i>Active Pattern Sequence Information</i> IE rather than <i>Transmission Gap Pattern Sequence Information</i> IE. It is then propose to remove this ambiguous statement.</p>
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**Consequences if not approved:** ⌘

**Clauses affected:** ⌘ 9.2.2.53A

<b>Other specs affected:</b>	⌘	<table border="1"><tr><td>Y</td><td>N</td></tr><tr><td>X</td><td></td></tr><tr><td></td><td>X</td></tr><tr><td></td><td>X</td><td>O&amp;M Specifications</td></tr></table>	Y	N	X			X		X	O&M Specifications	Other core specifications ⌘ CR891 25.423 Rel-5
		Y	N									
		X										
	X											
	X	O&M Specifications										
	X	Test specifications										
	X	O&M Specifications										

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### 9.2.2.53A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Transmission Gap Pattern Sequence Information</b>		<i>1..&lt;maxTGPS&gt;</i>		
>TGPS Identifier	M		INTEGER (1..maxTGPS)	Transmission Gap Pattern Sequence Identifier: Establish a reference to the compressed mode pattern sequence. Up to <maxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		INTEGER (0..14)	Transmission Gap Starting Slot Number: The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		INTEGER (1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	O		INTEGER (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		INTEGER (0, 15.. 269)	Transmission Gap Distance: indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to "0" ("0" =undefined).
>TGPL1	M		INTEGER (1..144,...)	The duration of transmission gap pattern 1 in frames.
>TGPL2	O		INTEGER (1..144,...)	The duration of transmission gap pattern 2 in frames. If omitted, then TGPL2=TGPL1.
>UL/DL Mode	M		ENUMERATED ( UL only, DL only, UL/DL)	Defines whether only DL, only UL or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATED ( Puncturing, SF/2, Higher Layer Scheduling, ...)	Method for generating downlink compressed mode gap <del>None means that compressed mode pattern is stopped.</del>
>Uplink Compressed Mode Method	C-UL		ENUMERATED ( SF/2, Higher Layer Scheduling, ...)	Method for generating uplink compressed mode gap.
>Downlink Frame Type	M		ENUMERATED (A, B,...)	Defines if frame structure type "A" or "B" shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER (0..30)	Delta in SIR target value to be set in the Node B during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Unit: dB Range: 0..3 dB Step: 0.1 dB

>DeltaSIRafter1	M		INTEGER (0..30)	Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the first transmission gap in the transmission gap pattern. Unit: dB Range: 0..3 dB Step: 0.1 dB
>DeltaSIR2	O		INTEGER (0..30)	Delta in SIR target value to be set in the Node B during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). When omitted, DeltaSIR2 = DeltaSIR1. Unit: dB Range: 0..3 dB Step: 0.1 dB
>DeltaSIRafter2	O		INTEGER (0..30)	Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Unit: dB Range: 0..3 dB Step: 0.1 dB

Condition	Explanation
UL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "UL only" or "UL/DL".
DL	The IE shall be present if the <i>UL/DL mode</i> IE is set to "DL only" or "UL/DL".

Range Bound	Explanation
<i>maxTGPS</i>	Maximum number of transmission gap pattern sequences