## TSGRP#14(01) 0897

## TSG-RAN Meeting #14 Kyoto, Japan, 11 - 14, December, 2001

Title: Agreed CRs to TS 25.433

Source: TSG-RAN WG3

Agenda item: 8.3.3/8.3.4/9.4.3

RP Tdoc	R3 Tdoc	Spec	CR_Num	Rev	Release	CR_Subject	Cat	Cur_Ver	New_Ver	Workitem
RP-010897	R3-013723	25.433	530	2	Rel-4	CR on Priority range	А	4.2.1	4.3.0	TEI

### 3GPP TSG-RAN3 Meeting #25 Makuhari, Japan, 26-30 November 2001

												CR-Form-v4
CHANGE REQUEST												
*	25	.433	CR	530	¥	ev	2	ж	Current vers	sion:	4.2.1	l #
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.												
Proposed change affects:												
Title:	CR	on Prio	rity range	)								
Source:	R-\	VG3										
Work item code: ₩	в те	Į							Date: ♯	17	-10-2001	
Category:  # A  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.  Release:  Rel-4  Use one of the following releases:  C (GSM Phase 2)  R96 (Release 1996)  R97 (Release 1997)  R98 (Release 1999)  R99 (Release 1999)  REL-4 (Release 4)  REL-5 (Release 5)									2) 6) 7) 8)			
Reason for change:  In Allocation/Retention priority IE, it is not clear whether priority values 2 to 13 are possible or not. The initial intention of the group was to define 15 values. The range and the usage must be specified clearly, and should be aligned to the Allocation/Retention priority IE of TS25.413.  The value "not used" is unclear and not aligned to TS 25.413.												
Rev2: Adding missed change reagrding the behaviour related to value zero.  Rev1: In the tabular format, value 15 (no-priority) description is removed since all the procedure text. Behaviour related to value zero is specified for the recesside only and treated as a logical error for backward compatibility reasons. layout as CR to 25.413 is used in tabular format.  Rev0: The range and the order of the allocation/retention priorities are specified The value "not used" is changed into "no priority" for alignment with TS25  Impact Analysis: This CR has no impact with the previous version of the specification (sam release) with the assumed interpretation of the previous version of the specification.							eceiving ns. Same led. :25.413.					
Consequences if not approved:	*			ues 2 to 1					lear and may ns.	lead	to differ	ent
Clauses affected:	ж	9.2.1.	1A, A1,	A2								
Other specs affected:	¥	Test specifications 25.423 v						v3.7.0 CR52 v3.7.0 CR47 v3.7.0 CR36	7, 25			

#### 9.2.1.1A Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of Node B internal resources. See Annex A.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Priority Level	M		INTEGER	This IE indicates the priority of
			<pre>{spare (0),</pre>	the request.
			highest (1),	<del>0 = spare.</del>
			lowest (14), no	1 = highest priority.
			priority (15)}	- · · ·
			(015)	-
				<u>-</u>
				14 = Lowest priority.
				15= not used.
				Usage:
				Values between 1 and 14 are
				ordered in decreasing order of
				priority, '1' being the highest
				and '14' the lowest.
				Value 0 shall be treated as a
	1		EN !! !! 4ED 4 T	logical error if received.
Pre-emption Capability	M		ENUMERAT	
			ED(shall not	
			trigger pre-	
			emption,	
			may trigger	
			pre-emption)	
Pre-emption Vulnerability	М		ENUMERAT	
_			ED (not pre-	
			emtable,	
			pre-emtable)	

## A.1 Deriving Allocation Information for a Radio Link

#### A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or

- b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels that are intended to use the Radio Link is set to "not usedno priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels that are intended to use the Radio Link is not set to "not usedno priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:
  - The transport channels that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "not used no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.
  - The allocation priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all non excluded transport channels that are intended to use the Radio Link.
  - If all non-excluded transport channels that are intended to use a Radio Link to be established have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

If one or more non-excluded transport channels that are intended to use the Radio Link to be established have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

### A.1.2 Modification of an Existing Radio Link

The Allocation Information for a Radio Link in the case of modification of a Radio Link (addition or modification of transport channels using the Radio Link) shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B,

- b) a previous procedure adding or modifying the transport channel, or
- c) the current procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels to be added or modified in the Radio Link is set to "not used no priority", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels to be added or modified in the Radio Link is not set to "not used no priority", the allocation priority of and the preemption capability of the Radio Link to be modified shall be set according to the following:

- The transport channels to be added or modified that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "not used no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link to be modified.
- The allocation priority for a Radio Link to be modified shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all the non-excluded transport channels that are to be added or modified.
- If all non-excluded transport channels that are to be added or modified in the Radio Link have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".
  - If one or more of the non-excluded transport channels to be added or modified in the Radio Link have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

# A.2 Deriving Retention Information for a Radio Link

The Retention Information for an existing Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or

b) a procedure adding or modifying the transport channel.

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more transport channels using the Radio Link is set to "not usedno priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all the transport channels using the Radio Link is not set to "not used no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:
  - The retention priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all transport channels that uses the Radio Link.
  - If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".
    If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the *Allocation/Retention Priority* IE, the retention information shall be derived again according to above.