# TSGW3#7(99)B71

TSG-RAN Working Group 3 meeting #7 Sophia Antipolis 20<sup>th</sup> – 24<sup>th</sup> September 1999

**Agenda Item:** 10.2 Actions

Source: NEC

**Title:** Timer for RANAP

**Document for:** Discussion

## [1] 25.313 RANAP Specification v1.2.1

#### 1.Abstract

In the RAN WG3 Iu-SWG meeting in Helsinki, timer handling has been discussed, and it was agreed to discuss further based on contribution. This contribution gives some timers for discussion.

#### 2. principle for specifying timer

Timers for RANAP should be specified in order to satisfy multi-vendor concept. The timers that should be specified in the RANAP procedure are those related to the elementary procedures which are categorized as class 1, i.e. element procedure with response (success or failure).

### 3. Timer list

Table 1 shows timer list for elementary procedure in RANAP.

Timer	Cause for	Normal	At Expiry	At recycle out	Counter	Nodes which
	initiation	Termination				start timers
Trepre	When Relocation Required is sent	At receipt of:: -Relocation Command or -Relocation Failure or -Reset or -Iu Release	Repeat Relocation Required, Crepre+1	Terminate Relocation Preparation procedure	Crepre	RNC
Trereq	When Relocation Request is sent	At receipt of:: -Relocation Request Ack or -Relocation Failure or -Reset or -Iu Release Request	Repeat Relocation Request, Crereq+1	Terminate Relocation Resource allocation	Crereq	CN
Trecan	When Relocation Cancel is sent	At receipt of: -Relocation Cancel Acknowledge or -Reset or -Iu Release	Repeat Relocation Cancel, Crecan+1	Initiate Iu Release Request	Crecan	RNC
Trabass [NOTE1]	When RAB Assignment Request is sent	At receipt of: -RAB Assignment Response or -RAB Assignment Failure or -Reset or -Iu Release Request  If a Queuing Indication is received, the CN re-start the timer and not	Repeat RAB Assignment Request Crabass+1	Terminate RAB Assignment Procedure. In case of the RAB Assignment is related to -RABs to establish → if the RAB is the only one or all in the Iu connection, Iu Release procedure is initiated	Crabass	CN

		increasing		-RABs to		
		Crabass.		modify		
		Crabass.		→do nothing		
				-RABs to		
				release		
				→ If the RAB is		
				the only one or		
				all in the Iu		
				connection, Iu		
				Release		
				procedure is		
				initiated		
Trabrelre	When RAB	At receipt of:	Repeat RAB	If the RAB is	Crabrelreq	RNC
q	Release Request	-RAB	Release	the only one or	•	
1	is sent	Assignment	Request,	all, Iu Release		
		Request or	Crabrelreq+	Request is		
		-Reset or	1	initiated		
		-Iu Release	*	madada		
Tqueuing	When Queuing	Successful of	RAB	_	_	RNC
rqueumg	Indication is sent	allocation the	Assignment			10110
	marcation is sent	radio resource or	Failure			
		at receipt of	ranure			
		-Reset or				
Tr 1	When Iu Release	-Iu Release	T 141 - 4 -			CNI
Tiurel		At receipt ot:	Initiate	_	-	CN
	is sent	-Iu Release	release of			
		Complete or	SCCP			
		-Reset	Connection			
Tiurelreq	When Iu Release	At receipt of:	Initiate	-	-	RNC
	Request is sent	-Iu Release or	release of			
		-Reset	SCCP			
			Connection			
Treset	When Reset is	At receipt of:	repeat	no re-cycle out	Creset=	RNC, CN
	sent	-Reset	Reset	is expected		
		Acknowledge		_		
Tresetac	At receipt of Rest	-	sent Reset	-	-	RNC, CN
k	•		Acknowledg			
			е			
Tcipher	When Cipher	At receipt of:	repeat	Initiate Iu	Ccipher	CN
1	Control	-Cipher Control	Cipher	Release	*	
	Command is	Complete or	Control	procedure		
	sent	-Reset or	Command,	1		
		-Iu Release	Ccipher+1			
		Request	Jeipher 1			
Tcnbroad	When CN	At receipt of:	Repeat	do nothing	Ccnbroad	CN
Teribroad	Broadcast	-CN Broadcast	Broadcast	ao noumig	CCIDIOAU	OIV
	Information	Information	Information			
	Request is sent	Confirm or	Request,			
		-Reset or	Ccnbroad+			
		-Iu Release	1			
		Request				

Table1 Timer list in RANAP procedure

[NOTE1] The alternative of the timer Trabass can be initiated in the RNC when receiving

RAB Assignment Request from the CN. It could be like below.

The Briediginitette recogness from the civil to could be like below.								
Timer	Cause	for	Normal	At Expiry	At recycle out	Counter	Nodes which	
	initiation		Termination		•		start timers	
Trabass	When	RAB	At sending of:	Send RAB			RNC	
	Assignment		RAB Assignment	Assignment	=			
	Request	is	Response or,	Failure for				
	received		At receipt of:	each RAB				
			-Reset or	or all RABs				
			-Iu Release					

Table 2 The alternative of the timer Trabass

The Table 1 can be incorporated into chapter 9.5 of [1] for further discussion.