R3#6(99)980

TSG-RAN Working Group 3 Meeting #6 Sophia-Antipolis, France 23 – 27 August 1999

9.1
NTT DoCoMo
Correspondence of mode in Iu UP protocol layer to services
Discussion

1.Introduction

This document describes Correspondence of the mode in Iu UP protocol layer to service.

2.Discussion

Reference [1] specifies two modes: *support mode* and *transparent mode*. Each mode has its own applied region. Support mode should be applied to the services that are not capable of performing the following functions in upper layer:

- Timing assurance (i.e. receiver can retrieve the correct interval of frames despite jitter)
- Error detection

On the other hand, if other layer already provides these functions, transparent mode should be applied to the service in Iu UP protocol. Derived from the above rule, support mode should be applied to speech service and transparent mode should be applied to PS service. This has already implicitly been regarded as an assumption.

In addition to speech and PS services, applied mode for other services such as UDI CS data, Multi Media Telephony and Circuit switched type of data should be specified. The following table proposes the applied mode for each service.

			UDI CS data			Multi Media Telephony			Circuit switched type		
									of data modem ar	such Id fax	as
Timing	assurance	for	Needed,	but	no	Needed,	but	no	Not neede	d	
payload			function			function					
Error detection for payload		Not needed			Not needed			Needed,	and	RLP	
									has this fu	nction	I
Applied mode		Support mode			Support mode			Transparent mode			

3.Proposal

It is proposed that the following table should be added in an annex of reference [1].

Examples of service	Applied mode
Speech	Support mode
UDI CS data	
Multi Media Telephony	
Packet	Transparent
Circuit switched type of data such as modem and	mode
fax	

4.References

[1] UMTS 25.415, Ver.0.2.1