

3GPP TSG_CN#6
Nice, France
13th – 15th December 1999

NP-99476

3GPP TSG-CN WG2
Phoenix, USA
15-19 November 1999

Tdoc N2-99J36

Source: TSG N2
Title: Proposed Work Item: GTP Enhancements
Document for: Approval

This contribution provides a proposed *Work Item Description* of GTP Enhancements to be approved.

x GTP Enhancements

x.1 3GPP Project

X	UMTS Radio Access
	GSM Radio Access
X	GSM-UMTS Core Network
	UMTS Services

x.2 Linked Work Items

Enhanced QoS Support in GPRS.

x.3 Justification

With the introduction of 3G services there is a need for some enhancements to the GPRS Tunnelling Protocol (GTP) specified in TS 3G 29.060. For example, GTP shall be able to tunnel real-time multimedia user flows in an efficient way.

Another requirement is that, in the 3G context, the user plane part of GTP (GTP-U) shall also be used for tunnelling of user data over the Iu interface between RNC and SGSN. This requires a clearer separation of the user plane part from the signalling plane part (GTP-C).

x.4 Service Aspects

None

x.5 MMI Aspects

None

x.6 Charging Aspects

None

x.7 Security Aspects

None

x.8 Impacts

Affects:	USIM	ME	NW	Others
Yes			X	
No	X	X		
Don't know				

x.9 Expected Output and Timescales (to be updated at each plenary)

Approval of WI TSG-CN #06 (13-15 December 1999)
Approval of related CRs TSG-CN2 #x (15-19 November 1999)
TSG-SA2 #x (15 - 17 December 1999)

x.10 Work Item rapporteurs

Ericsson L.M.

x.11 Supporting Companies

Nokia, NTT DoCoMo, Lucent Technologies, Ericsson

x.12 Responsible TSG(s)

Primary Responsibility TSG-CN

Secondary Responsibility TSG-RAN, TSG-SA

x.13 Specifications

The following specification will need to be enhanced to support the GTP Enhancements:

TS 3G 29.060 Specification of the GPRS Tunnelling Protocol (GTP)

TS 3G 23.060