

Source: CN4
Title: Preferred Framing Protocol
Agenda item: 9.9
Document for: Information/Approval

Work Item Description For REL-6

Title Preferred Framing Protocol

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

3 Justification

In Release 4 CN3 has specified the use of IuFP framing protocol on the Nb interface, TS 29.415. This framing protocol carries CS speech and data services in Support Mode through the 3GPP PLMN. However external networks can deploy narrowband trunking for compressed voice and other narrowband bitrate services and do so using other framing protocols than IuFP. On AAL2 for example a Service Specific Convergence Sublayer (SSCS) for narrowband services is defined by ITU Recommendation I.366.2. On IP, framing such as RTP can be used. These protocols are not directly compatible with IuFP and it is desirable for 3GPP PLMNs to be able to interwork with these networks without reverting to conventional 64K PCM at the network border or requiring specific interworking functions.

In order to avoid always mapping to the (assumed) default framing of an external network or transcoding it is desired to have a mechanism to indicate the most suitable (preferred) framing protocol. Thus in cases where an external network supports IuFP or PLMN-PLMN interworking occurs, framing protocol interworking can be avoided.

4 Objective

To define preferred framing protocol request signalling procedures in order to avoid framing protocol interworking whenever possible.

5 Service Aspects

The framing protocol interworking shall be backward compatible with existing versions of BICC.

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
-	-	-	-	-	-	-
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
23.205		Preferred Framing Protocol Request – stage 2 procedures		CN#18	New Chapter	
29.205		Stage 3 – Q.765.5 updates for 3GPP (note this is in lieu of BICC CS3 release – codepoints are reserved)		CN#18	Additional codepoints defined in Q.765.5	

11 Work item rapporteurs

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12 Work item leadership

CN WG4

13 Supporting Companies

14 Classification of the WI (if known)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

none

14b The WI is a Building Block: parent Feature

none

14c The WI is a Work Task: parent Building Block

none