

**3GPP TSG\_CN**  
**Plenary Meeting #9, Oahu, Hawaii**  
**20<sup>th</sup> – 22<sup>nd</sup> September 2000**

**Tdoc RP-000507**

**Title: Proposed Work Item Description: Transcoder Free Operations**

**Source: TrFO Convenor**

**Purpose: Approval**

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This contribution proposes the Work Item Description for Transcoder Free Operations.

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## Work Item Description

### Transcoder Free Operations

**1 3GPP Work Area**

X	Radio Access
	Core Network
	Services

**2 Linked work items**

Out of band Transcoder Control (CN Work Item)

**3 Justification**

This WI is the complementary part of the WI that has been agreed for TSG CN. It shall provide more details for the Radio Access Network standardisation that is required for the Transcoder Free Operations.

**4 Objective**

- The number of transcoders to be installed in the core network can be minimised.
- The bandwidth to be provided in the core network may be reduced by TrFO or transcoder at the core network edge for both MS to MS calls and for MS from/to wireline calls.

**5 Service Aspects**

The service aspects for Transcoder Free Operations are:

- Usage of the Iu UP Framing in the Core Network needs to be supported
- Symmetrical set of RFCIs needs to be supported
- The behaviour of a RNC for receiving RFCIs at Iu UP initialisation from the core network shall be changed to be applied for both uplink and downlink.
- The possibility of standardisation the RFCI indexes needs to be analysed
- The mechanism to make the RFCIs available during TrFO Break needs to be supported (e.g. interrogation, storage of RFCIs)

**6 MMI-Aspects**

None

**7 Charging Aspects**

None

**8 Security Aspects**

None

**9 Impacts**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>			X		
<b>No</b>	X	X		X	
<b>Don't know</b>					X

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

<b>New specifications</b>						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.153	Out of Band Transcoder Control - Stage 2	CN4	RAN3	TSG-CN#7	TSG-CN#10	
<b>Affected existing specifications</b>						
Spec No.	CR	Subject			Approve d at plenary#	Comments
TS 25.401					TSG- RAN#11	
TS 25.410					TSG- RAN#11	
TS 25.413		To support the mechanism to make the RFCI set available during TrFO Break			TSG- RAN#11	
TS 25.415		To support the mechanism to make the RFCI set available during TrFO Break			TSG- RAN#11	

**11 Work item rapporteurs**

**12 Work item leadership**

TSG-RAN3

**13 Supporting Companies**

**14 Classification of the WI (if known)**

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

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

**14b** The WI is a Building Block: parent Feature

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

**Out of Band Transcoder Control**