### NP-050129

# 3GPP TSG CN Plenary Meeting #27 9<sup>th</sup> – 11<sup>th</sup> March 2005 Tokyo, JAPAN.

Source: TSG CN WG4

Title: Corrections on TEI4

Agenda item: 7.11

**Document for:** APPROVAL

Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Ver_C
N4-050480	29.232	118	3	Rel-4	Requirements for support of procedures	F	4.10.0
N4-050481	29.232	119	3	Rel-5	Requirements for support of procedures	F	5.9.0
N4-050482	29.232	120	3	Rel-6	Requirements for support of procedures	Α	6.0.0

CR-Form-v7.1												
CHANGE REQUEST												
[ <b>35</b> ]	29.	232	CR	118	æ	rev	2 3	$\mathbb{H}$	Current vers	sion:	4.10.0	O EE
For <u>HELP</u> on u	ısing tı	his for	m, see	bottom o	of this p	age or	look a	t the	pop-up tex	t over	the 光 sy	mbols.
Proposed change affects: UICC apps   ME Radio Access Network Core Network   X												
Title:	Rec	uirem	ents fo	or support	t of proc	edures	}					
Source:	CN <sup>2</sup>	1										
Work item code: ₩	TEI	4							Date: ⊯	06/0	01/2005	
Category: ⊯	Use <u>c</u> I I Detai	F (corr A (corr B (add C (fund D (edial led exp	rection) respond dition of ctional torial m blanatic	owing cate ds to a cor feature), modification odification ns of the a FR 21.900	rection in on of feat ) above ca	ture)		ease,	Release:  \text{\text{\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\tex{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\exitt{\$\text{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$\e	f the fol (GSM (Rele (Rele (Rele (Rele (Rele (Rele		') ') ')
Reason for change	e: Ж	have that i	guida s requ e requi	nce on th ired. Cur	e minim	ium set nis leve	of fur of de	nctio etail i	e, it is neces nality (ie ma is not provid ures defined	ndato ed in 2	ry requir 29.232 w	ements) vith regard
Summary of chang	ge:⊯	succ	essful		ntation o	of the M			onditional or e is identifie		latory for	r
Consequences if not approved:	<b> </b>	interf resul	face su	ccessful	and inte	eropera erabilit	ble. \ y bein	/end	rocedure se lor impleme successful a d.	ntation	ns will va	ry widely
Clauses affected:	æ	14.1	14.2									
Other specs affected:	[ <b>ૠ</b> ]	Y N X X	Test	core spespecificat	ions	ons	[ <b>X</b> ]					
Other comments:	<b></b>								096 to 29.23 ine for section			proved,

#### How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked 🗷 contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 14.1 Call independent H.248 transactions

Table 2 shows the relationship between each non call-related procedure in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) and the corresponding stage 2 procedure defined in 3GPP TS 23.205 [2], as well as specifying the requirement for support of each procedure on the Mc interface.

For further description of error codes and service change reasons, refer to <u>ITU-T Recommendation H.248 Annex L</u> [14].

Table 2: Correspondence between Q.1950 non call-related transactions and TS 23.205 procedures

Transaction used in Q.1950	Procedure defined in 3GPP TS 23.205 [2]	Support	Comments
BIWF_Service_Cancellation_Indication	MGW Out of Service	Mandatory	
BIWF_Lost_Communication	MGW Communication Up	Mandatory	
BIWF_Service_Restoration_Indicat ion	MGW Restoration	Mandatory	
BIWF_Registration	MGW Register	<b>Mandatory</b>	
BIWF_Re-Registration	MGW Re-register	Mandatory	
CCU Ordered BIWF Re-	(G)MSC Server Ordered Re-	Mandatory	
Registration	register		
CCU Initiated Service Restoration	(G)MSC Server Restoration	<u>Optional</u>	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	<u>Optional</u>	
BIWF_Service_Cancellation_Indica	Termination Out-of-Service	Mandatory	Is a part of BIWF Service
tion			cancellation in Q.1950
BIWF_Service_Restoration_Indicat	Termination Restoration	Mandatory	Is a part of BIWF Service
ion			cancellation in Q.1950
Audit_Values	Audit Value	<u>FFS</u>	
Audit_Capabilities	Audit Capability	<u>Optional</u>	
BIWF_Capability_Change	Capability Update	<u>Optional</u>	

\*\*\*\*\* Next Changed Section \*\*\*\*\*

## 14.2 Call related H.248 transactions

Table 3 shows the relationship between each call-related procedure in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) and the corresponding stage 2 procedure defined in 3GPP TS 23.205 [2], as well as specifying the requirement for support of each procedure on the Mc interface.

Table 3: Correspondence between Q.1950 call-related transactions and 3GPP TS 23.205 and 23.153 procedures

Transaction used in Q.1950	Procedure defined in 3GPP TS 23.205 [2] and 23.153 [1]	Support	Comments
Change_Topology	Change Flow Direction	<u>Mandatory</u>	
Join	Join Bearer Termination	<b>Mandatory</b>	
Isolate	Isolate Bearer Termination	Mandatory	
Establish_BNC_Notify+(tunnel)	Establish Bearer	Mandatory	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	Mandatory	
Cut_Through	Change Through Connection	Mandatory	
Not defined in Q.1950	Activate Interworking Function	Optional	
Cut_BNC (include several procedures).	Release Bearer (Release	Mandatory	
	Bearer and Release termination)		
BNC Established	Bearer Established	Mandatory	
BNC Release	Bearer Released	Mandatory	
Insert_Tone	Send Tone	Mandatory	
Insert_Annoucement	Play Announcement	Mandatory	
Signal Completion	Announcement Completed	Mandatory	
Detect_Digit	Detect DTMF	Mandatory	
Insert_Digit	Send DTMF	Mandatory	
Digit Detected	Report DTMF	Mandatory	
Confirm Char	Confirm Char	Optional	
Modify_Char	Modify Char	Optional	
Reserve_Char	Reserve Char	Optional	
BNC Modified	Bearer Modified	<u>Optional</u>	
Echo Canceller	Activate Voice Processing Function	Mandatory	
BNC Modification failed	Bearer Modified Failed	<u>Optional</u>	
Tunnel (MGC-MGW)	Tunnel Information Down	<b>Optional</b>	Shall be supported if the Nb
			interface transport protocol is IP
Tunnel (MGW-MGC)	Tunnel Information Up	<u>Optional</u>	Shall be supported if the Nb interface transport protocol is IP
Insert _Tone	Stop Tone	Mandatory	
Insert Announcement	Stop Announcement	Mandatory	
Detect_Digit	Stop DTMF Detection	Optional	
Insert_Digit	Stop DTMF	Mandatory	
Signal Completion	Tone Completed	Optional	
Not defined	Reserve Circuit	Mandatory	
Not defined	Command Rejected	Mandatory	
Not defined	TFO Activation	Optional	
Not defined	Codec Modify	Optional	
Not defined	Optimal Codec and Distant	Optional	
	List_Notify		
Not defined	Distant Codec List	Optional	
Modify_Char	Modify Bearer Characteristics	Mandatory	
Not defined	Rate Change	Optional	
Not defined	Bearer Modification Support	Optional	
Not defined	Protocol Negotiation Result	<u>Optional</u>	
Reserve_Char	Reserve Bearer Characteristics	<u>Optional</u>	
Confirm Char	Confirm Bearer Characteristics	<u>Optional</u>	
	3 can be combined with another pr	ocedure in the	e same action. This means that
they can share the same cont	extID and termination ID(s).		

NOTE: A procedure defined in table 3 can be combined with another procedure in the same action. This means that they can share the same contextID and termination ID(s).

CR-Form-v7.1							
CHANGE REQUEST							
<b>29</b>	0.232 CR 119						
For <u>HELP</u> on using	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>x</b> symbols.						
Proposed change affects: UICC apps   ME Radio Access Network Core Network X							
Title: 第 Re	equirements for support of procedures						
Source:	N4						
Work item code:	Date:   □ 06/01/2005						
Deta	Release:  Release: Rel-5  one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature),  C (functional modification of feature)  P(Release 1997)  Release 1998)  Release 1999)  Release 1999)  Release 1999)  Release 1999)  Release 1999)  Release 1999)  Rel-4 (Release 4)  Rel-5 (Release 5)  Rel-6 (Release 6)  Rel-7 (Release 7)						
Reason for change: #	Reason for change: In order to have an interoperable Mc interface, it is necessary for vendors to have guidance on the minimum set of functionality (ie mandatory requirements) that is required. Currently this level of detail is not provided in 29.232 with regard to the requirements for support of the procedures defined in sections 14.1 and 14.2.						
Summary of change:	Whether support of procedures is optional, conditional or mandatory for successful implementation of the Mc interface is identified.  This is an essential correction						
Consequences if # mot approved:	No guidance is provided about the required procedure set to make the Mc interface successful and interoperable. Vendor implementations will vary widely resulting intervendor interoperability being unsuccessful and the functionality of the BICN network being severly compromised.						
Clauses affected:	14.1, 14.2						
Other specs # affected:	Y N Other core specifications						
Other comments:	This CR is based on the assumption that CR097 to 29.232 has been approved, and takes the content of that CR as it's baseline for section 14.2.						

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 14.1 Call independent H.248 transactions

Table 2 shows the relationship between each non call-related procedure in ITU-T Recommendation Q.1950 [23] (see 3GPP TS 29.205 [7]) and the corresponding stage 2 procedure defined in 3GPP TS 23.205 [2], as well as specifying the requirement for support of each procedure on the Mc interface.

For further description of error codes and service change reasons, refer to ITU-T Recommendation H.248.8 [14].

Table 2: Correspondence between ITU-T Recommendation Q.1950 [23] non call-related transactions and 3GPP TS 23.205 [2] procedures

Transaction used in ITU-T Recommendation Q.1950 [23]	Procedure defined in 3GPP TS 23.205 [2]	Support	Comments
BIWF_Service_Cancellation_Indication	MGW Out of Service	Mandatory	
BIWF_Lost_Communication	MGW Communication Up	Mandatory	
BIWF_Service_Restoration_Indication	MGW Restoration	<u>Mandatory</u>	
BIWF_Registration	MGW Register	Mandatory	
BIWF_Re-Registration	MGW Re-register	Mandatory	
CCU Ordered BIWF Re-Registration	(G)MSC Server Ordered Re-register	Mandatory	
CCU Initiated Service Restoration	(G)MSC Server Restoration	<u>Optional</u>	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	<u>Optional</u>	
BIWF_Service_Cancellation_Indication	Termination Out-of-Service	Mandatory	Is a part of BIWF Service cancellation in Q.1950
BIWF_Service_Restoration_Indication	Termination Restoration	Mandatory	Is a part of BIWF Service cancellation in Q.1950
Audit_Values	Audit Value	<u>FFS</u>	
Audit_Capabilities	Audit Capability	<u>Optional</u>	
BIWF_Capability_Change	Capability Update	<u>Optional</u>	
	MGW Resource Congestion Handling - Activate	Mandatory	
	MGW Resource Congestion Handling - Indication	Mandatory	

\*\*\*\*\* Next Changed Section \*\*\*\*\*

## 14.2 Call related H.248 transactions

Table 3 shows the relationship between each call-related procedure in ITU-T Recommendation Q.1950 [23] (see 3GPP TS 29.205 [7]) and the corresponding stage 2 procedure defined in 3GPP TS 23.205 [2], as well as specifying the requirement for support of each procedure on the Mc interface.

Table 3: Correspondence between ITU-T Recommendation Q.1950 [23] call-related transactions and 3GPP TS 23.205 [2] and 3GPP TS 23.153 [1] procedures

Transaction used in ITU-T Recommendation Q.1950 [23]	Procedure defined in 3GPP TS 23.205 [2] and 3GPP TS 23.153 [1]	Support	Comments
Change_Topology	Change Flow Direction	Mandatory	
Join	Join Bearer Termination	Mandatory	
Isolate	Isolate Bearer Termination	Mandatory	
Establish_BNC_Notify+(tunnel)	Establish Bearer	Mandatory	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	Mandatory	
Cut_Through	Change Through-Connection	Mandatory	
Not defined in Q.1950	Activate Interworking Function	Optional	
Cut_BNC (include several	Release Bearer (Release Bearer and		
procedures).	Release termination)	<u> </u>	
BNC Established	Bearer Established	Mandatory	
BNC Release	Bearer Released	Mandatory	
Insert_Tone	Send Tone	Mandatory	
Insert Annoucement	Play Announcement	Mandatory	
Signal Completion	Announcement Completed	Mandatory	
Detect_Digit	Detect DTMF	Mandatory	
Insert Digit	Send DTMF	Mandatory	
Digit Detected	Report DTMF	Mandatory	
Confirm_Char	Confirm Char	Optional	
Modify_Char	Modify Char	Optional	
Reserve_Char	Reserve Char		
BNC Modified	Bearer Modified	Optional Optional	
		Optional Mandatan	
Echo Canceller	Activate Voice Processing Function	Mandatory	
BNC Modification failed	Bearer Modified Failed	Optional	Ob all has a constant of the Alle
Tunnel (MGC-MGW)	Tunnel Information Down	<u>Optional</u>	Shall be supported if the Nb
Toward (MOVA/ MOO)	Town all late was all and like	0-4	interface transport protocol is IP
Tunnel (MGW-MGC)	Tunnel Information Up	<u>Optional</u>	Shall be supported if the Nb
Insert_Tone	Stop Tone	Mandatory	interface transport protocol is IP
Insert_Announcement	Stop Announcement	Mandatory	
Detect_Digit	Stop DTMF Detection	Optional	
Insert_Digit	Stop DTMF	Mandatory	
Signal Completion	Tone Completed	Optional	
Not defined	Reserve Circuit	Mandatory	
Not defined	Command Rejected	Mandatory	
Not defined	TFO Activation	Optional	
Not defined	Codec Modify	Optional	
Not defined	Optimal Codec and Distant	Optional	
Not defined	List_Notify	Optional	
Not defined	Distant Codec List	Optional	
Modify_Char	Modify Bearer Characteristics	Mandatory	
Not defined	Rate Change	Optional	
Not defined	Bearer Modification Support	Optional	
Not defined	CTM report	Optional	
	Prepare IP transport		
Not defined	i Fregare ie nausoon	<u>Optional</u>	
Not defined		Ontional	
Not defined	Modify IP transport address	<u>Optional</u>	
Not defined Not defined	Modify IP transport address Protocol Negotiation Result	<u>Optional</u>	
Not defined Not defined Reserve Char	Modify IP transport address Protocol Negotiation Result Reserve Bearer Characteristics	Optional Optional	
Not defined Not defined Reserve Char Confirm Char	Modify IP transport address Protocol Negotiation Result	Optional Optional Optional	

CR-Form-v7.1							
CHANGE REQUEST							
<b>2</b> 9	9.232 CR	120	жrev	2 3	Current vers	6.0.0	[ <b>H</b> ]
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>x</b> symbols.							
Proposed change affects: UICC apps   ME Radio Access Network Core Network X							
Title: 器 Re	equirements fo	or support of p	rocedures				
Source: # CI	N4						
Work item code: ₩ T	EI4				Date: ⊯	06/01/2005	
Det	F (correction) A (correspond B (addition of C (functional D (editorial m	ds to a correction feature), modification of the odification of the odification) on so the above	n in an ear	ier release)	Ph2	Rel-6 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	
Reason for change:	Reason for change:  In order to have an interoperable Mc interface, it is necessary for vendors to have guidance on the minimum set of functionality (ie mandatory requirements) that is required. Currently this level of detail is not provided in 29.232 with regard to the requirements for support of the procedures defined in sections 14.1 and 14.2.						ements) ith regard
Summary of change:	successful	ipport of proce implementatio essential cori	n of the M			mandatory for I.	
Consequences if not approved:	interface su resulting in	iccessful and i	nteropera operability	ble. Vend / being un	or implemer successful a	t to make the Natations will var	y widely
Clauses affected:	£ 14.1, 14.2						
Other specs affected:	X Test	r core specifica specifications Specifications		[ <b>H</b> ]			
Other comments:		based on the a				2 has been ap	proved,

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BIWF_Service_Restoration_Indication	MGW Restoration	<u>Mandatory</u>	
BIWF_Registration	MGW Register	Mandatory	
BIWF_Re-Registration	MGW Re-register	Mandatory	
CCU Ordered BIWF Re-Registration	(G)MSC Server Ordered Re-register	Mandatory	
CCU Initiated Service Restoration	(G)MSC Server Restoration	<u>Optional</u>	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	<u>Optional</u>	
BIWF_Service_Cancellation_Indication	Termination Out-of-Service	Mandatory	Is a part of BIWF Service cancellation in Q.1950
BIWF_Service_Restoration_Indication	Termination Restoration	Mandatory	Is a part of BIWF Service cancellation in Q.1950
Audit_Values	Audit Value	<u>FFS</u>	
Audit_Capabilities	Audit Capability	<u>Optional</u>	
BIWF_Capability_Change	Capability Update	<u>Optional</u>	
	MGW Resource Congestion Handling - Activate	Mandatory	
	MGW Resource Congestion Handling - Indication	Mandatory	

\*\*\*\*\* Next Changed Section \*\*\*\*\*

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Change_Topology	Change Flow Direction	Mandatory	
Join	Join Bearer Termination	Mandatory	
Isolate	Isolate Bearer Termination	Mandatory	
Establish_BNC_Notify+(tunnel)	Establish Bearer	Mandatory	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	Mandatory	
Cut_Through	Change Through-Connection	Mandatory	
Not defined in Q.1950	Activate Interworking Function	Optional	
Cut_BNC (include several	Release Bearer (Release Bearer and		
procedures).	Release termination)	<u> </u>	
BNC Established	Bearer Established	Mandatory	
BNC Release	Bearer Released	Mandatory	
Insert_Tone	Send Tone	Mandatory	
Insert Annoucement	Play Announcement	Mandatory	
Signal Completion	Announcement Completed	Mandatory	
Detect_Digit	Detect DTMF	Mandatory	
Insert Digit	Send DTMF	Mandatory	
Digit Detected	Report DTMF	Mandatory	
Confirm_Char	Confirm Char	Optional	
Modify_Char	Modify Char	Optional	
Reserve_Char	Reserve Char		
BNC Modified	Bearer Modified	Optional Optional	
		Optional Mandatan	
Echo Canceller	Activate Voice Processing Function	Mandatory	
BNC Modification failed	Bearer Modified Failed	Optional	Ob all has a constant of the Alle
Tunnel (MGC-MGW)	Tunnel Information Down	<u>Optional</u>	Shall be supported if the Nb
Toward (MOVA/ MOO)	Town all late was all and like	0-4	interface transport protocol is IP
Tunnel (MGW-MGC)	Tunnel Information Up	<u>Optional</u>	Shall be supported if the Nb
Insert_Tone	Stop Tone	Mandatory	interface transport protocol is IP
Insert_Announcement	Stop Announcement	Mandatory	
Detect_Digit	Stop DTMF Detection	Optional	
Insert_Digit	Stop DTMF	Mandatory	
Signal Completion	Tone Completed	Optional	
Not defined	Reserve Circuit	Mandatory	
Not defined	Command Rejected	Mandatory	
Not defined	TFO Activation	Optional	
Not defined	Codec Modify	Optional	
Not defined	Optimal Codec and Distant	Optional	
Not defined	List_Notify	Optional	
Not defined	Distant Codec List	Optional	
Modify_Char	Modify Bearer Characteristics	Mandatory	
Not defined	Rate Change	Optional	
Not defined	Bearer Modification Support	Optional	
Not defined	CTM report	Optional	
	Prepare IP transport		
Not defined	i Fregare ie nausoon	<u>Optional</u>	
Not defined		Ontional	
Not defined	Modify IP transport address	<u>Optional</u>	
Not defined Not defined	Modify IP transport address Protocol Negotiation Result	<u>Optional</u>	
Not defined Not defined Reserve Char	Modify IP transport address Protocol Negotiation Result Reserve Bearer Characteristics	Optional Optional	
Not defined Not defined Reserve Char Confirm Char	Modify IP transport address Protocol Negotiation Result	Optional Optional Optional	