

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

**NP-050133**

**Source:** TSG CN WG4  
**Title:** Corrections on TE14  
**Agenda item:** 7.11  
**Document for:** APPROVAL

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

## CHANGE REQUEST

⌘ **29.232** **CR 118** ⌘ rev **2** ⌘ Current version: **4.10.0** ⌘  
4

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:**  UICC apps ⌘  ME  Radio Access Network  Core Network


<b>Title:</b>	<span>⌘</span> Requirements for support of procedures		
<b>Source:</b>	<span>⌘</span> CN4		
<b>Work item code:</b>	<span>⌘</span> TEI4	<b>Date:</b>	<span>⌘</span> 06/01/2005
<b>Category:</b>	<span>⌘</span> <b>F</b>	<b>Release:</b>	<span>⌘</span> Rel-4
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

<b>Reason for change:</b>	<span>⌘</span> 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.
<b>Summary of change:</b>	<span>⌘</span> Whether support of procedures is optional, conditional or mandatory for successful implementation of the Mc interface is identified.  <b>This is an essential correction</b>
<b>Consequences if not approved:</b>	<span>⌘</span> No guidance is provided about the required procedure set to make the Mc interface successful and interoperable. Vendor implementations will vary widely resulting in vendor interoperability being unsuccessful and the functionality of the BICN network being severely compromised.

<b>Clauses affected:</b>	<span>⌘</span> 14.1, 14.2						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications <span>⌘</span>	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input checked="" type="checkbox"/> Test specifications						
	<input checked="" type="checkbox"/> O&M Specifications						
<b>Other comments:</b>	<span>⌘</span> This CR is based on the assumption that CR096 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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## 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 [ITU-T Recommendation H.248 Annex L](#) [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	<a href="#">Mandatory</a>	
BIWF_Lost_Communication	MGW Communication Up	<a href="#">Mandatory</a>	
BIWF_Service_Restoration_Indication	MGW Restoration	<a href="#">Mandatory</a>	
BIWF_Registration	MGW Register	<a href="#">Mandatory</a>	
BIWF_Re-Registration	MGW Re-register	<a href="#">Mandatory</a>	
CCU Ordered BIWF Re-Registration	(G)MSC Server Ordered Re-register	<a href="#">Mandatory</a>	
CCU Initiated Service Restoration	(G)MSC Server Restoration	<a href="#">Optional</a>	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	<a href="#">Optional</a>	
BIWF_Service_Cancellation_Indication	Termination Out-of-Service	<a href="#">Mandatory</a>	Is a part of BIWF Service cancellation in Q.1950
BIWF_Service_Restoration_Indication	Termination Restoration	<a href="#">Mandatory</a>	Is a part of BIWF Service cancellation in Q.1950
Audit_Values	Audit Value	<a href="#">FFS</a>	
Audit_Capabilities	Audit Capability	<a href="#">Optional</a>	
BIWF_Capability_Change	Capability Update	<a href="#">Optional</a>	

\*\*\*\*\* *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	<a href="#">Mandatory</a>	
Join	Join Bearer Termination	<a href="#">Mandatory</a>	
Isolate	Isolate Bearer Termination	<a href="#">Mandatory</a>	
Establish_BNC_Notify+(tunnel)	Establish Bearer	<a href="#">Mandatory</a>	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	<a href="#">Mandatory</a>	
Cut_Through	Change Through_-Connection	<a href="#">Mandatory</a>	
Not defined in Q.1950	Activate Interworking Function	<a href="#">Optional</a>	
Cut_BNC (include several procedures).	Release Bearer (Release Bearer and Release termination)	<a href="#">Mandatory</a>	
BNC Established	Bearer Established	<a href="#">Mandatory</a>	
BNC Release	Bearer Released	<a href="#">Mandatory</a>	
Insert_Tone	Send Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Play Announcement	<a href="#">Mandatory</a>	
Signal Completion	Announcement Completed	<a href="#">Mandatory</a>	
Detect_Digit	Detect DTMF	<a href="#">Mandatory</a>	
Insert_Digit	Send DTMF	<a href="#">Mandatory</a>	
<del>Digit Detected</del> <del>Detected digit(BIWF)</del>	Report DTMF	<a href="#">Mandatory</a>	
Confirm_Char	Confirm Char	<a href="#">Optional</a>	
Modify_-Char	Modify Char	<a href="#">Optional</a>	
Reserve_Char_Notify	Reserve Char	<a href="#">Optional</a>	
BNC Modified	Bearer Modified	<a href="#">Optional</a>	
Echo Cancellor	Activate Voice Processing Function	<a href="#">Mandatory</a>	
<del>BNC-Connected</del>	<del>[Editors note: No definition yet]</del>		
<del>BNC Modification failed</del>	Bearer Modified Failed	<a href="#">Optional</a>	
Tunnel (MGC-MGW)	Tunnel Information Down	<a href="#">Optional</a>	<a href="#">Shall be supported if the Nb interface transport protocol is IP</a>
Tunnel (MGW-MGC)	Tunnel Information Up	<a href="#">Optional</a>	<a href="#">Shall be supported if the Nb interface transport protocol is IP</a>
Insert_Tone	Stop Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Stop Announcement	<a href="#">Mandatory</a>	
Detect_-Digit	Stop DTMF Detection	<a href="#">Optional</a>	
Insert_-Digit	Stop DTMF	<a href="#">Mandatory</a>	
Signal_-Completion	Tone Completed	<a href="#">Optional</a>	
Not defined	Reserve Circuit	<a href="#">Mandatory</a>	
Not defined	Command Rejected	<a href="#">Mandatory</a>	
Not defined	TFO Activation	<a href="#">Optional</a>	
Not defined	Codec_-Modify	<a href="#">Optional</a>	
Not defined	Optimal Codec and Distant List_Notify	<a href="#">Optional</a>	
Not defined	Distant Codec List	<a href="#">Optional</a>	
Modify_-Char	Modify Bearer Characteristics	<a href="#">Mandatory</a>	
Not defined	<del>IWF-Protocol Indication</del> <del>Rate Change</del>	<a href="#">Optional</a>	
Not defined	Bearer Modification Support	<a href="#">Optional</a>	
<del>Not defined</del>	<del>Protocol Negotiation Result</del>	<a href="#">Optional</a>	
<del>Reserve_Char</del>	<del>Reserve Bearer Characteristics</del>	<a href="#">Optional</a>	
<del>Confirm_Char</del>	<del>Confirm Bearer Characteristics</del>	<a href="#">Optional</a>	
<b>NOTE:</b> <a href="#">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).</a>			

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## CHANGE REQUEST

⌘ **29.232 CR 119** ⌘ rev **2** ⌘ Current version: **5.9.0** ⌘  
4

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<b>Title:</b>	<span>⌘</span> Requirements for support of procedures		
<b>Source:</b>	<span>⌘</span> CN4		
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<b>Category:</b>	<span>⌘</span> <b>A</b> <b>F</b>	<b>Release:</b>	<span>⌘</span> Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)


<b>Reason for change:</b>	<span>⌘</span> 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.
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Y	N										
	X										
	X										
	X										
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## 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	<a href="#">Mandatory</a>	
BIWF_Lost_Communication	MGW Communication Up	<a href="#">Mandatory</a>	
BIWF_Service_Restoration_Indication	MGW Restoration	<a href="#">Mandatory</a>	
BIWF_Registration	MGW Register	<a href="#">Mandatory</a>	
BIWF_Re-Registration	MGW Re-register	<a href="#">Mandatory</a>	
CCU Ordered BIWF Re-Registration	(G)MSC Server Ordered Re-register	<a href="#">Mandatory</a>	
CCU Initiated Service Restoration	(G)MSC Server Restoration	<a href="#">Optional</a>	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	<a href="#">Optional</a>	
BIWF_Service_Cancellation_Indication	Termination Out-of-Service	<a href="#">Mandatory</a>	Is a part of BIWF Service cancellation in Q.1950
BIWF_Service_Restoration_Indication	Termination Restoration	<a href="#">Mandatory</a>	Is a part of BIWF Service cancellation in Q.1950
Audit_Values	Audit Value	<a href="#">FFS</a>	
Audit_Capabilities	Audit Capability	<a href="#">Optional</a>	
BIWF_Capability_Change	Capability Update	<a href="#">Optional</a>	
	MGW Resource Congestion Handling - Activate	<a href="#">Mandatory</a>	
	MGW Resource Congestion Handling - Indication	<a href="#">Mandatory</a>	

\*\*\*\*\* *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 Q.1950	Procedure defined in 3GPP TS 23.205 [2] and 23.153 [1]	Support	Comments
Change_Topology	Change Flow Direction	<a href="#">Mandatory</a>	
Join	Join Bearer Termination	<a href="#">Mandatory</a>	
Isolate	Isolate Bearer Termination	<a href="#">Mandatory</a>	
Establish_BNC_Notify+(tunnel)	Establish Bearer	<a href="#">Mandatory</a>	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	<a href="#">Mandatory</a>	
Cut_Through	Change Through_-Connection	<a href="#">Mandatory</a>	
Not defined in Q.1950	Activate Interworking Function	<a href="#">Optional</a>	
Cut_BNC (include several procedures).	Release Bearer (Release Bearer and Release termination)	<a href="#">Mandatory</a>	
BNC Established	Bearer Established	<a href="#">Mandatory</a>	
BNC Release	Bearer Released	<a href="#">Mandatory</a>	
Insert_Tone	Send Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Play Announcement	<a href="#">Mandatory</a>	
Signal Completion	Announcement Completed	<a href="#">Mandatory</a>	
Detect_Digit	Detect DTMF	<a href="#">Mandatory</a>	
Insert_Digit	Send DTMF	<a href="#">Mandatory</a>	
<del>Digit Detected</del> <del>Detected digit(BIWF)</del>	Report DTMF	<a href="#">Mandatory</a>	
Confirm_Char	Confirm Char	<a href="#">Optional</a>	
Modify_-Char	Modify Char	<a href="#">Optional</a>	
Reserve_Char_Notify	Reserve Char	<a href="#">Optional</a>	
BNC Modified	Bearer Modified	<a href="#">Optional</a>	
Echo Cancellor	Activate Voice Processing Function	<a href="#">Mandatory</a>	
<del>BNC-Connected</del>	<del>[Editors note: No definition yet]</del>		
BNC Modification failed	Bearer Modified Failed	<a href="#">Optional</a>	
Tunnel (MGC-MGW)	Tunnel Information Down	<a href="#">Optional</a>	<a href="#">Shall be supported if the Nb interface transport protocol is IP</a>
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Insert_Tone	Stop Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Stop Announcement	<a href="#">Mandatory</a>	
Detect_-Digit	Stop DTMF Detection	<a href="#">Optional</a>	
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Not defined	Optimal Codec and Distant List_Notify	<a href="#">Optional</a>	
Not defined	Distant Codec List	<a href="#">Optional</a>	
Modify_-Char	Modify Bearer Characteristics	<a href="#">Mandatory</a>	
Not defined	<del>IWF-Protocol Indication</del> <del>Rate Change</del>	<a href="#">Optional</a>	
Not defined	Bearer Modification Support	<a href="#">Optional</a>	
<del>Not defined</del>	<del>Protocol Negotiation Result</del>	<a href="#">Optional</a>	
<del>Reserve Char</del>	<del>Reserve Bearer Characteristics</del>	<a href="#">Optional</a>	
<del>Confirm Char</del>	<del>Confirm Bearer Characteristics</del>	<a href="#">Optional</a>	
NOTE: <a href="#">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).</a>			

## CHANGE REQUEST

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4

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<b>Category:</b>	<span>⌘</span> <b>A</b>	<b>Release:</b>	<span>⌘</span> Rel-6
	Use <u>one</u> of the following categories: <i>F</i> (correction) <i>A</i> (corresponds to a correction in an earlier release) <i>B</i> (addition of feature), <i>C</i> (functional modification of feature) <i>D</i> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <i>Ph2</i> (GSM Phase 2) <i>R96</i> (Release 1996) <i>R97</i> (Release 1997) <i>R98</i> (Release 1998) <i>R99</i> (Release 1999) <i>Rel-4</i> (Release 4) <i>Rel-5</i> (Release 5) <i>Rel-6</i> (Release 6) <i>Rel-7</i> (Release 7)

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

\*\*\*\*\* *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 Q.1950	Procedure defined in 3GPP TS 23.205 [2] and 23.153 [1]	Support	Comments
Change_Topology	Change Flow Direction	<a href="#">Mandatory</a>	
Join	Join Bearer Termination	<a href="#">Mandatory</a>	
Isolate	Isolate Bearer Termination	<a href="#">Mandatory</a>	
Establish_BNC_Notify+(tunnel)	Establish Bearer	<a href="#">Mandatory</a>	
Prepare_BNC_Notify+(tunnel)	Prepare Bearer	<a href="#">Mandatory</a>	
Cut_Through	Change Through_-Connection	<a href="#">Mandatory</a>	
Not defined in Q.1950	Activate Interworking Function	<a href="#">Optional</a>	
Cut_BNC (include several procedures).	Release Bearer (Release Bearer and Release termination)	<a href="#">Mandatory</a>	
BNC Established	Bearer Established	<a href="#">Mandatory</a>	
BNC Release	Bearer Released	<a href="#">Mandatory</a>	
Insert_Tone	Send Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Play Announcement	<a href="#">Mandatory</a>	
Signal Completion	Announcement Completed	<a href="#">Mandatory</a>	
Detect_Digit	Detect DTMF	<a href="#">Mandatory</a>	
Insert_Digit	Send DTMF	<a href="#">Mandatory</a>	
<del>Digit Detected</del> <del>Detected digit(BIWF)</del>	Report DTMF	<a href="#">Mandatory</a>	
Confirm_Char	Confirm Char	<a href="#">Optional</a>	
Modify_-Char	Modify Char	<a href="#">Optional</a>	
Reserve_Char_Notify	Reserve Char	<a href="#">Optional</a>	
BNC Modified	Bearer Modified	<a href="#">Optional</a>	
Echo Cancellor	Activate Voice Processing Function	<a href="#">Mandatory</a>	
<del>BNC-Connected</del>	<del>[Editors note: No definition yet]</del>		
<del>BNC Modification failed</del> <del>ure</del>	Bearer Modified Failed	<a href="#">Optional</a>	
Tunnel (MGC-MGW)	Tunnel Information Down	<a href="#">Optional</a>	<a href="#">Shall be supported if the Nb interface transport protocol is IP</a>
Tunnel (MGW-MGC)	Tunnel Information Up	<a href="#">Optional</a>	<a href="#">Shall be supported if the Nb interface transport protocol is IP</a>
Insert_Tone	Stop Tone	<a href="#">Mandatory</a>	
Insert_Announcement	Stop Announcement	<a href="#">Mandatory</a>	
Detect_-Digit <del>s</del>	Stop DTMF Detection	<a href="#">Optional</a>	
Insert_-Digit	Stop DTMF	<a href="#">Mandatory</a>	
Signal_-Completion	Tone Completed	<a href="#">Optional</a>	
Not defined	Reserve Circuit	<a href="#">Mandatory</a>	
Not defined	Command Rejected	<a href="#">Mandatory</a>	
Not defined	TFO Activation	<a href="#">Optional</a>	
Not defined	Codec_-Modify	<a href="#">Optional</a>	
Not defined	Optimal Codec and Distant List_Notify	<a href="#">Optional</a>	
Not defined	Distant Codec List	<a href="#">Optional</a>	
Modify_-Char	Modify Bearer Characteristics	<a href="#">Mandatory</a>	
Not defined	<del>IWF-Protocol Indication</del> <del>Rate Change</del>	<a href="#">Optional</a>	
Not defined	Bearer Modification Support	<a href="#">Optional</a>	
<del>Not defined</del>	<del>Protocol Negotiation Result</del>	<a href="#">Optional</a>	
<del>Reserve Char</del>	<del>Reserve Bearer Characteristics</del>	<a href="#">Optional</a>	
<del>Confirm Char</del>	<del>Confirm Bearer Characteristics</del>	<a href="#">Optional</a>	
NOTE: <a href="#">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).</a>			