NP-030380

3GPP TSG CN Plenary Meeting #21 17th – 19th September 2003 Frankfurt, GERMANY.

Source: TSG CN WG4

Title: Corrections on mobile OoBTC

Agenda item: 7.7

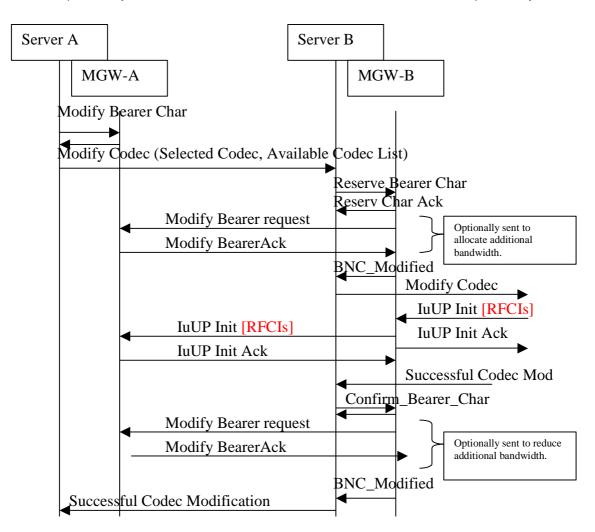
Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.153	062	1	N4-031032	Rel-4	Clarification on codec modification	F	4.8.0
23.153	063	1	N4-031033	Rel-5	Clarification on codec modification	Α	5.5.0
23.153	066	1	N4-031034	Rel-4	Clarification of IuUP Initialisation during codec modification	F	4.8.0
23.153	067	1	N4-031035	Rel-5	Clarification of IuUP Initialisation during codec modification	Α	5.5.0

CHANGE REQUEST								
*	23.153 CR 062							
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text over the % symbols.							
Proposed change at	ffects: UICC apps# ME Radio Access Network Core Network X							
Title: 第	Clarification on codec modification							
Source: #	CN4							
Work item code: 光	OoBTC Date: # 11/08/2003							
1	F Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Release: # Rel-4 Use one of the following releases: 2 (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)							
Reason for change:	1. Errors in Figures 5.8.4/1, which contradict Figures 5.8.4/2, 5.8.5/1 and 5.8.5/2 and the text in this specification with respect to: BNC Modified message is required to be sent UP Initialisation arriving before Confirm Bearer Characteristics should be passed immediately to avoid interruption in speech. 2. Errors in Figures 5.8.4/2: Optional Bearer Modification to reduce bandwidth omitted (allowed according to BICC and Figure 5.8.1/2) Rab Assign Modify Response in wrong direction 3. Figure 5.8.5/2 does not fit on one page and will not be printed completly							
Summary of change	BNC Modified message is not optional Confirm Bearer Characteristics does not trigger UP Initialisation 2. Corrections in Figure 5.8.4/2 Direction of Rab Assign Modify Response turned around Optional Bearer Modification to reduce bandwidth added							

	Figure Split in two for better readability					
	3. Figure 5.8.5/2 is split in two					
Consequences if	Specification is self-contradicting, which may lead to different non-interworking					
not approved:	implementations.					
	·					
Clauses affected:	% 5.8.4, 5.8.5					
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications					
Other comments:	x					

The IuFP must be initialised sequentially from one end to the other in order to store new RFCIs in each node to allow TrFO to resume. The IuFP shall be initialised in the backward direction with respect to the Codec Modification/Modify To Selected Codec message as shown in Figure 5.8.4/1.



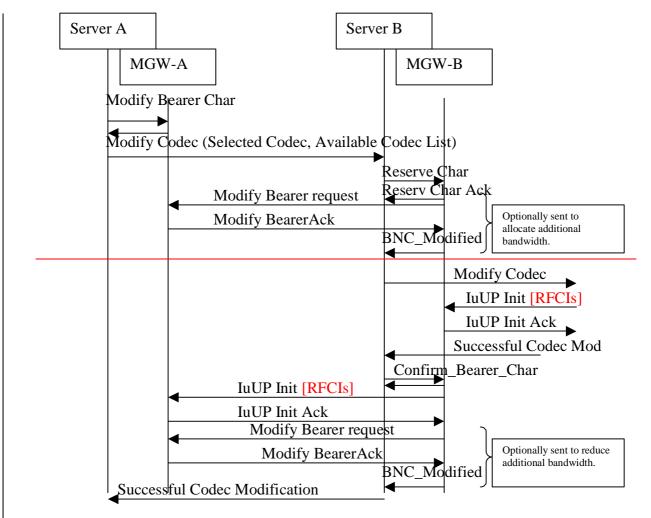


Figure 5.8.3.4/1: Successful Codec Modification including luFP

A MGW receiving a Modify Bearer Characteristics procedure shall be prepared to receive an incoming modify bearer procedure, this may be to increase the bandwidth prior to IuUP Initialisation or to reduce the bandwidth after the IuUP Initialisation. As the new codec indicated in the Modify Bearer Characteristics procedure differs from the codec that is currently used the MGW shall be prepared to receive an IuUP Initialisation for the new codec.

Each termination receiving a Reserve_Char will initiate bearer level modification to the preceding node if needed - i.e. if the bandwidth needs to be increased to support the new IuUP. No IuUP initialisation occurs at this point in time. If the Codec Modification Request is terminated by a MGW the IuUP init through the core-network is triggered by the setting of the 3GUP package property "initialisation direction" to "OUT" in either the Reserve_Char or the Confirm_Char procedure; the MGW shall then start the IuUP Initialisation out from that Termination. If the node terminating the modification is an RNC then it will generate a new IuUP Initialisation toward its access MGW, each Termination shall have the initialisation direction set to "IN". Each MGW shall in turn acknowledge the IuUP Init to the succeeding node (with respect to the modification request) and forward the RFCIs in an IuUP Initialisation to the preceding MGW (as for call set-up). After completing the Iu UP initialisation and receiving the "Confirm Characteristics" procedure, the MGW may decrease the bandwidth of the corresponding bearer performing the "Modify Bearer" procedure (if needed) - no bearer bandwidth reduction shall be initiated while the UP is still initialised for the old codec.

An example call sequence is shown in Figures 5.8.4/2 and 5.8.4/3.

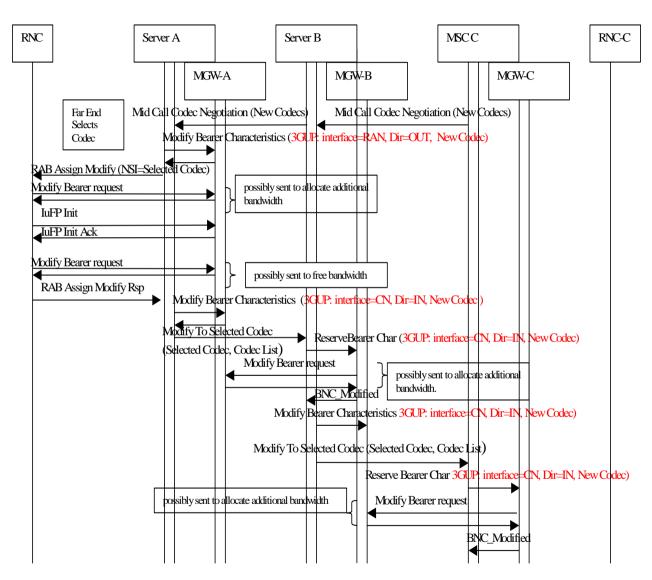


Figure 5.8.4/2: Mid Call Codec Negotiation Call Sequence. Call Flow Part 1

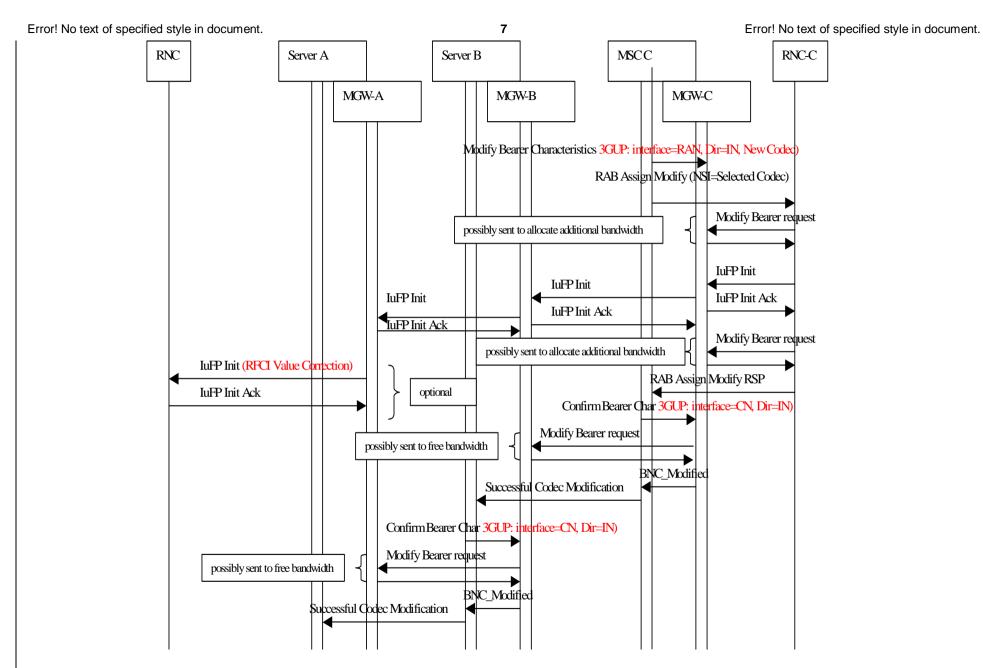


Figure 5.8.4/3: Mid Call Codec Negotiation Call Sequence. Call Flow Part 2

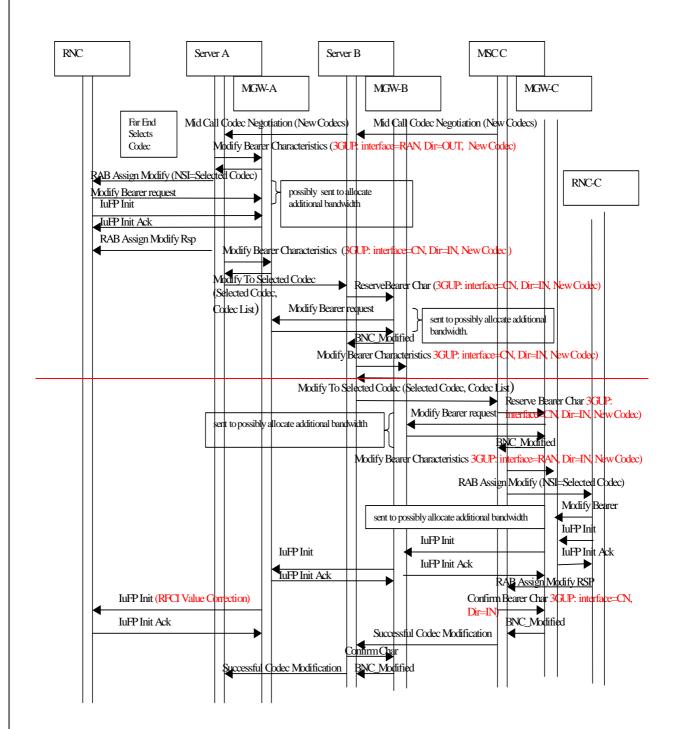


Figure 5.8.4/2: Mid Call Codec Negotiation Call Sequence

5.8.5 Unsuccessful Codec Modification

If the Codec Modification is unsuccessful at a certain node in the connection (due to the MGW rejecting a request to reserve the resources or a server rejecting the request to modify the codec) the Confirm_Char message shall be sent to a termination that previously performed a successful Reserve_Char Procedure to change the bearer back to its original bandwidth (if needed) and free up any reserved resources. However as the IuUP has not been modified, the Confirm_Char shall not trigger an IuFP re-initialisation. The basic sequence is shown in Figure 5.8.5/1 and a detailed call flow is described in Figure 5.8.5/2. A server that performed a Modify Bearer Characteristics procedure to a

termination with the new codec shall perform a subsequent Modify Bearer Characteristics procedure to that termination with the old codec in the failure case. As no IuFP initialisation occurs in the unsuccessful case the IuFP currently intialised will then match the old codec restored by the subsequent Modify Bearer Char; the MGW then knows that it can return to TrFO.

The Codec Modification Failure message shall not be returned to a preceding node until notification of the bearer level modification (BNC Modified).

RAB Assigment Modification Failure

If the reason for failed codec modification is due to an unsuccessful RAB Modification Request then the MSC shall assume that the old RAB is resumed and thus shall restore the old codec.

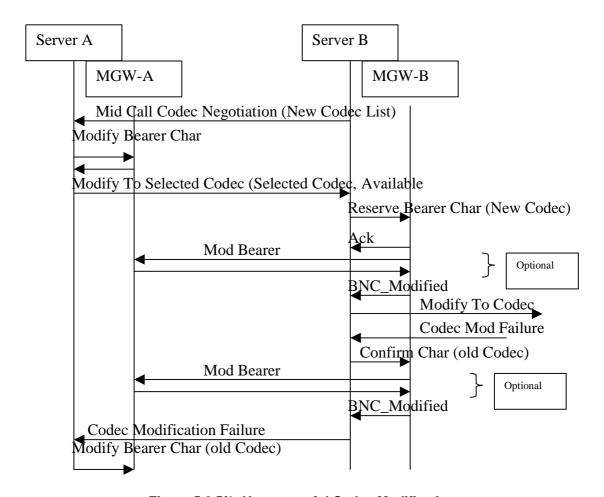
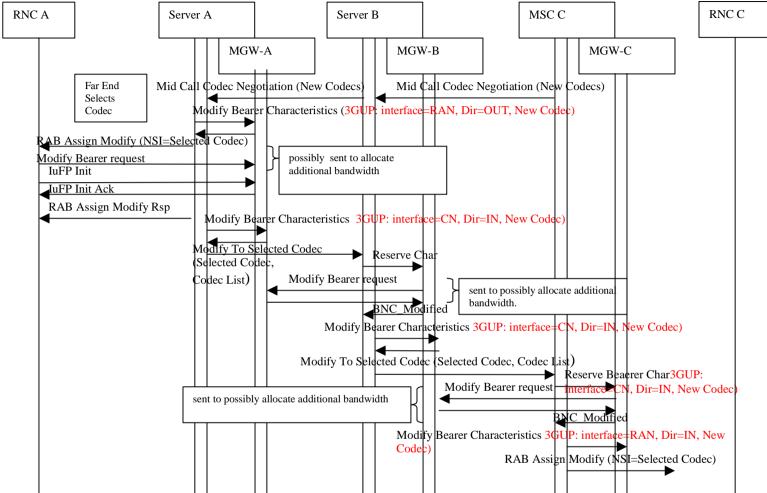


Figure 5.8.5/1: Unsuccessful Codec Modification

IuUP Initialisation Unsuccessful



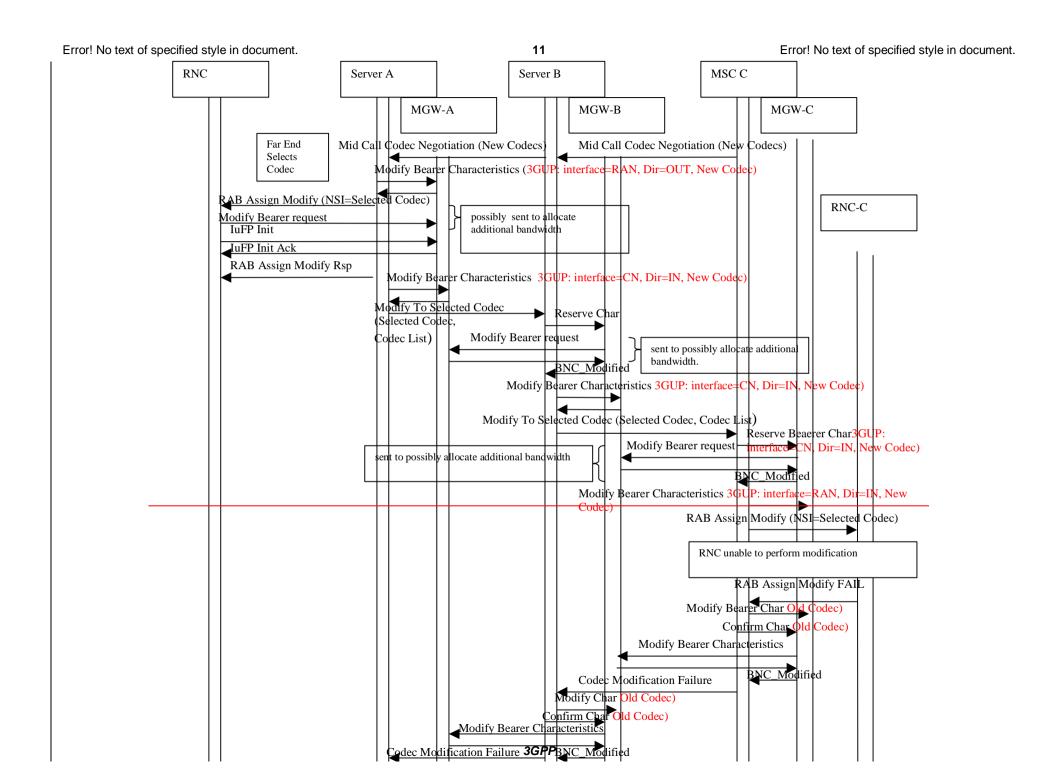


Figure 5.8.5/2: Call Sequence for Unsuccessful Modification. Call Flow Part 1

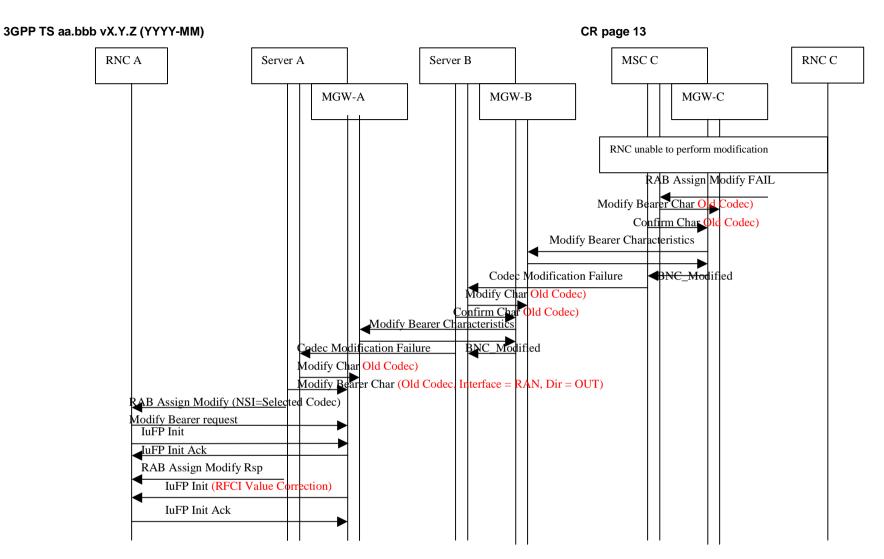
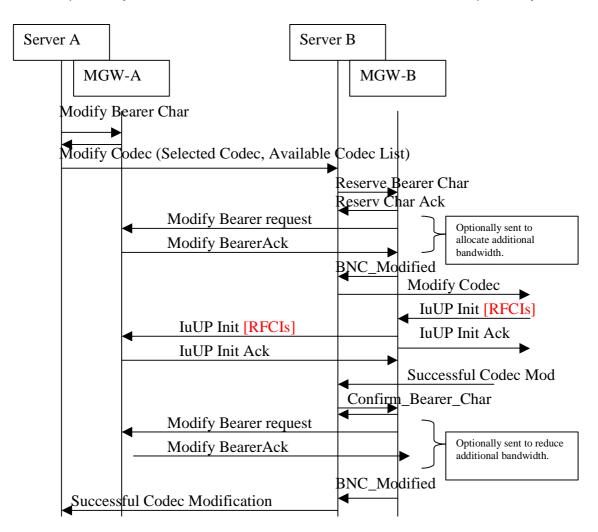


Figure 5.8.5/2: Call Sequence for Unsuccessful Modification. Call Flow Part 2

CHANGE REQUEST								CR-Form-v7			
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		Rab Assign Modify Response in wrong direction 3. Figure 5.8.5/2 does not fit on one page and will not be printed completly									
		3. Figu	re 5.8.	5/2 does not	fit on one pa	ge and	l will	not be printed of	comple	etly	
Summary of char	nge: #	1. Corr	ections	s in Figure 5	.8.4/1						
		BNC M	Iodifie	d message is	s not optional						
		Confirm	n Bear	er Character	ristics does no	ot trigg	ger Ul	P Initialisation			
		2. Corr	ections	s in Figure 5	.8.4/2						
		Direction	on of F	Rab Assign N	Modify Respo	nse tu	ırned	around			
		Optiona	al Bear	er Modifica	tion to reduce	e band	width	added			

	Figure Split in two for better readability					
	3. Figure 5.8.5/2 is split in two					
Consequences if	Specification is self-contradicting, which may lead to different non-interworking					
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	·					
Clauses affected:	% 5.8.4, 5.8.5					
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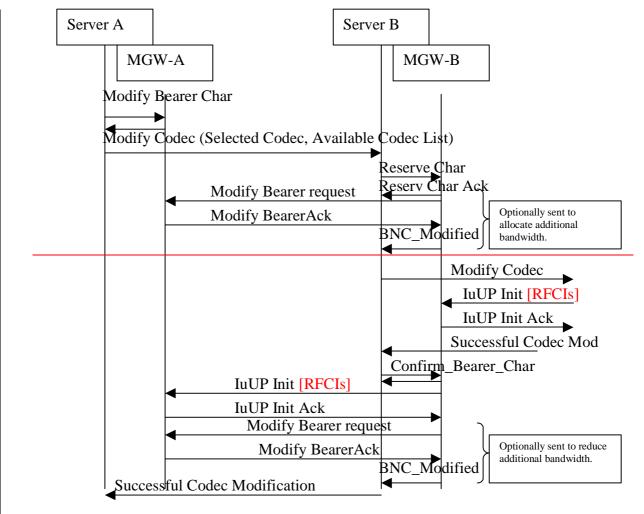


Figure 5.8.3.4/1: Successful Codec Modification including luFP

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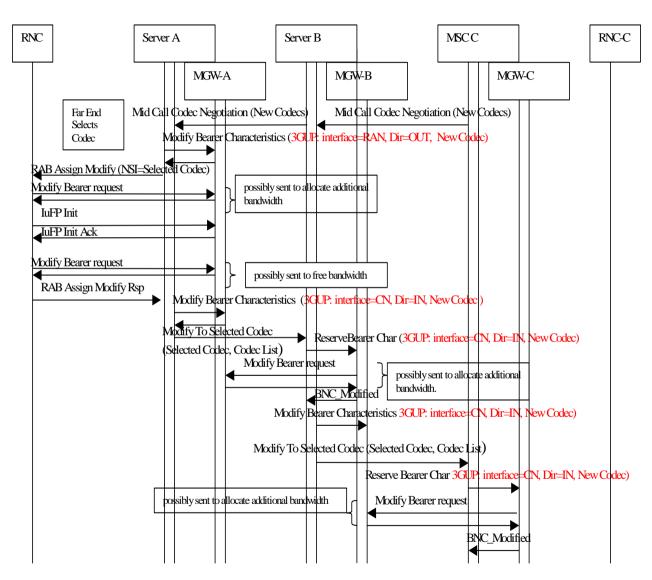


Figure 5.8.4/2: Mid Call Codec Negotiation Call Sequence. Call Flow Part 1

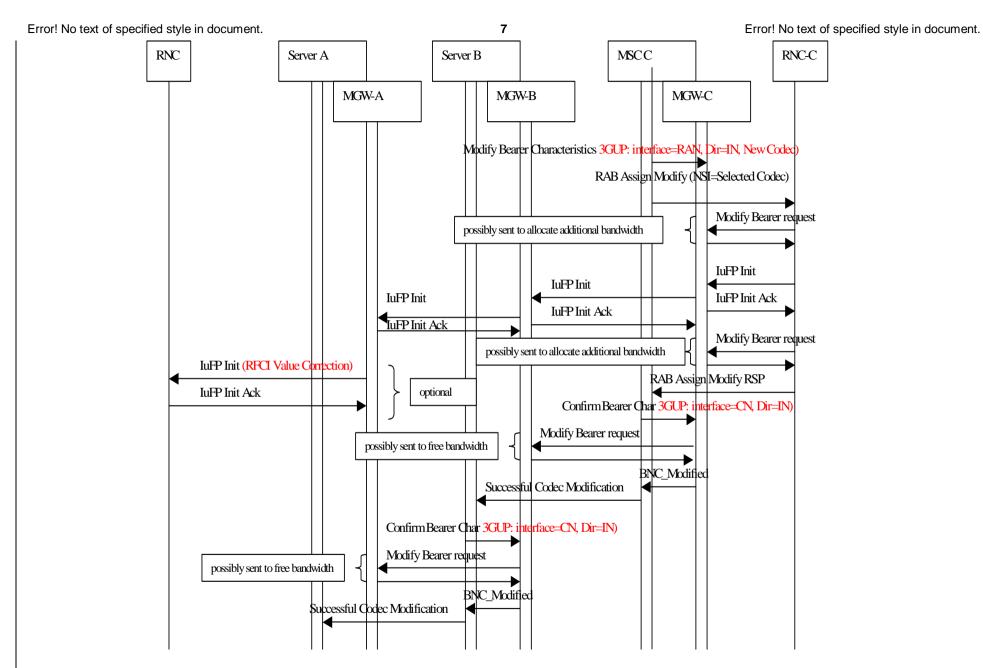


Figure 5.8.4/3: Mid Call Codec Negotiation Call Sequence. Call Flow Part 2

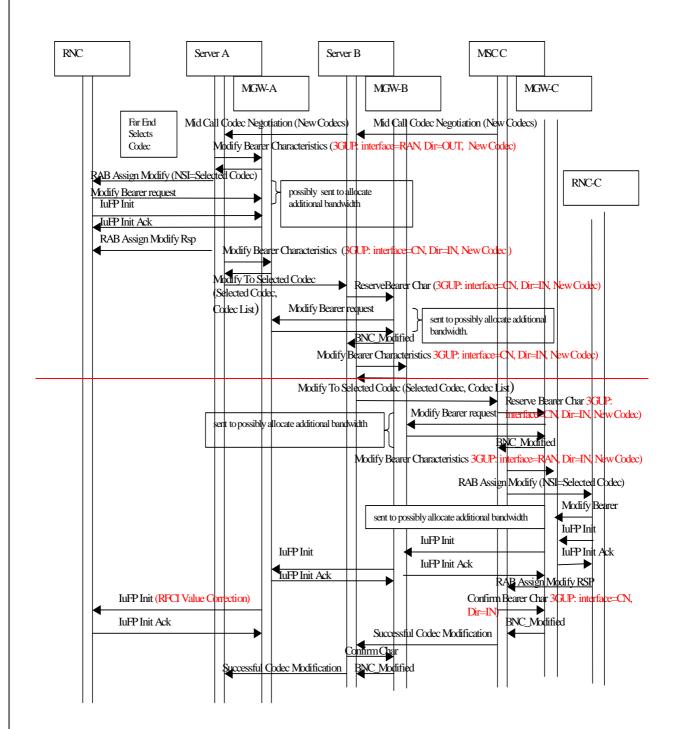


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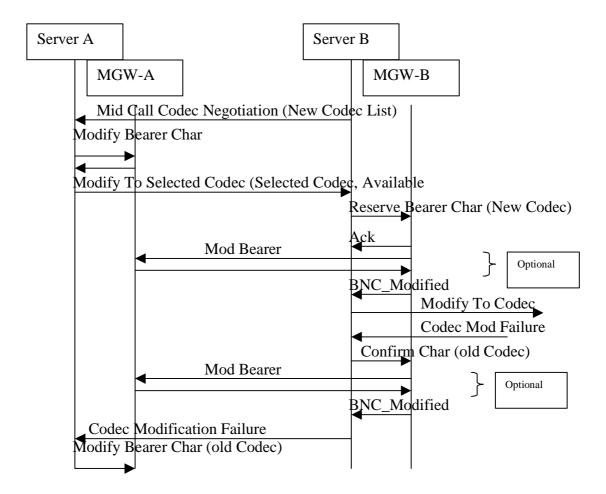
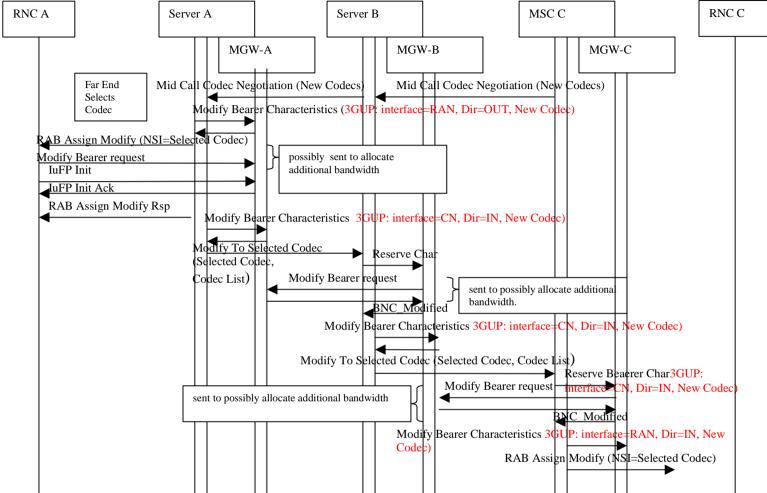


Figure 5.8.5/1: Unsuccessful Codec Modification

IuUP Initialisation Unsuccessful



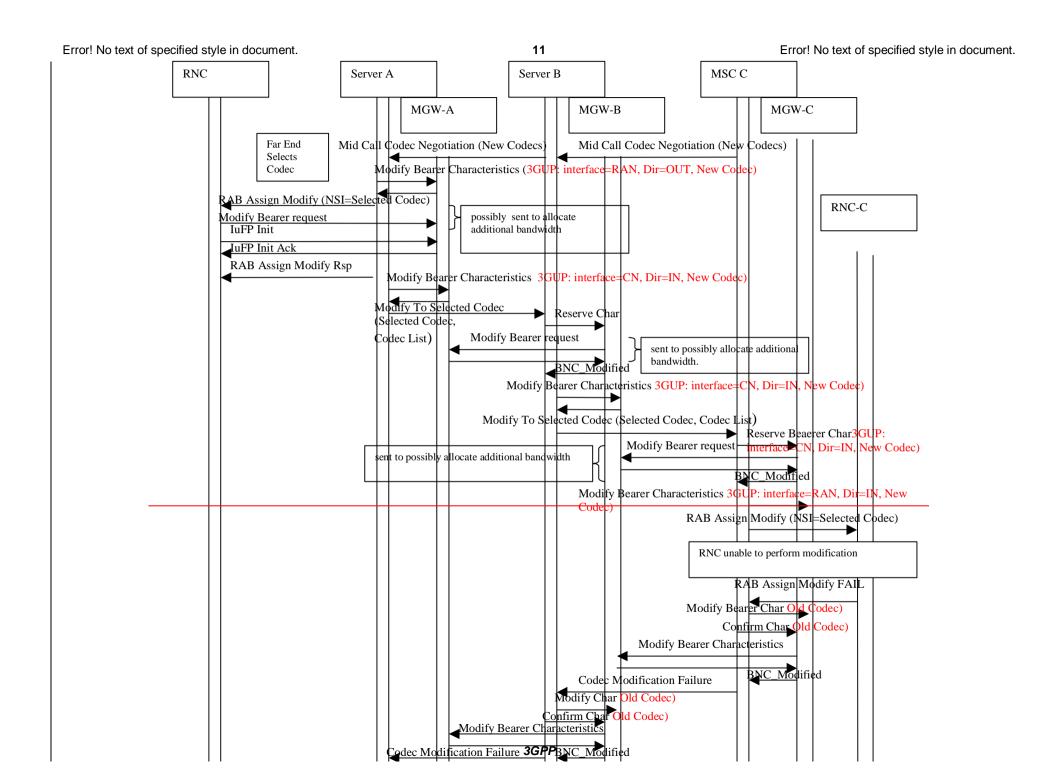


Figure 5.8.5/2: Call Sequence for Unsuccessful Modification. Call Flow Part 1

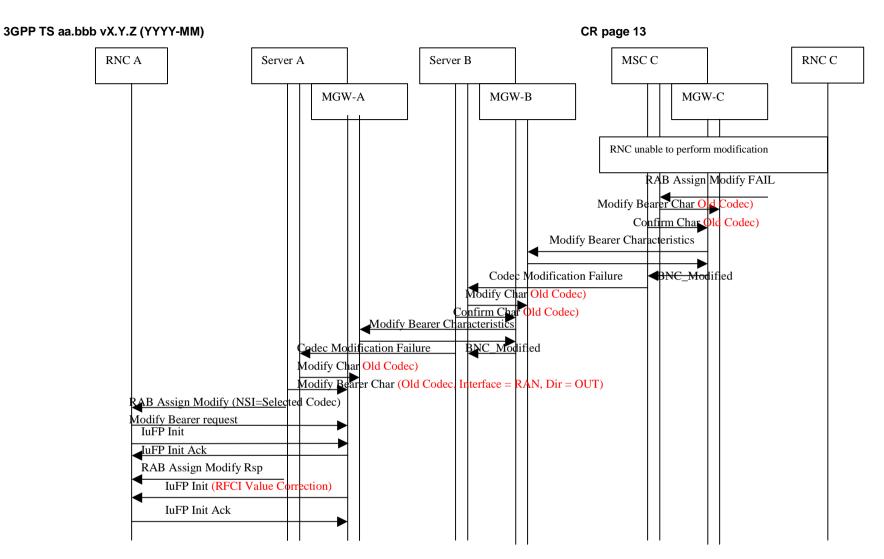


Figure 5.8.5/2: Call Sequence for Unsuccessful Modification. Call Flow Part 2

CHANGE REQUEST											
*	23.153 CR 0	<mark>66</mark>	1 # C	urrent version:	4.8.0	*					
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.											
Proposed change a	Proposed change affects: UICC apps# ME Radio Access Network Core Network										
Title: #	Clarification of lul	P Initialisation during	g codec modi	fication							
Source: #	CN4										
Work item code: ₩	OoBTC			Date: 第 28/	8/2003						
Reason for change	B (addition of fe C (functional mod D (editorial mod Detailed explanations be found in 3GPP TR	to a correction in an eature), odification of feature) ification) of the above categoric 21.900.	es can	R96 (Rele R97 (Rele R98 (Rele R99 (Rele Rel-4 (Rele Rel-5 (Rele Rel-6 (Rele	ollowing rele A Phase 2) Phase 1996) Phase 1997) Phase 1998) Phase 1999) Phase 4) Phase 5) Phase 6)	ments					
Summary of chang	User Plane threshold the specification This is an essentiation to	ough the core-netwo on is unclear in this re- ential correction. That the MGW re-initial control behaviour is clarified	rk or expect tespect.	o receive an Iul	JP Init. Cu	rrently					
Consequences if not approved:	# Interworking page does send on	oroblems – one MGV e.	V may not ex	pect an IuUP ini	it when its	peer					
Clauses affected:	% 5.8.4										
Other specs affected:	Y N X Other c X Test sp	ore specifications ecifications pecifications	æ								
Other comments:	₩ This CD is in	line with CN plenary	and RANG de	acisions							

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

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.

The IuFP must be initialised sequentially from one end to the other in order to store new RFCIs in each node to allow TrFO to resume. The IuFP shall be initialised in the backward direction with respect to the Codec Modification/Modify To Selected Codec message as shown in Figure 5.8.4/1.

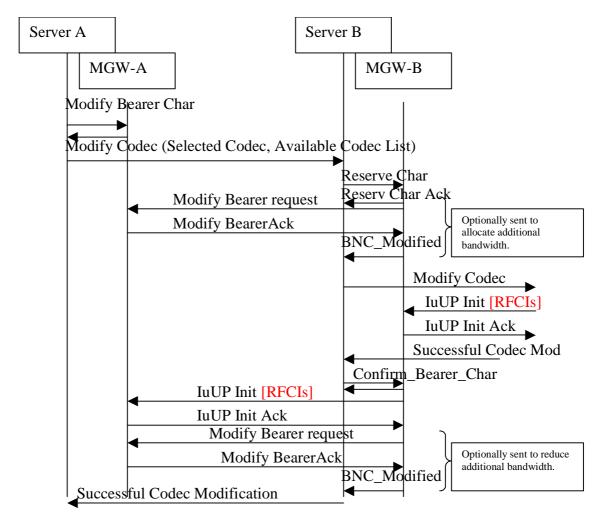


Figure 5.8.3.4/1: Successful Codec Modification including luFP

A MGW receiving a Modify Bearer Characteristics procedure shall be prepared to receive an incoming modify bearer procedure, this may be to increase the bandwidth prior to IuUP Initialisation or to reduce the bandwidth after the IuUP Intialisation. As the new codec indicated in the Modify Bearer Characteristics procedure differs from the codec that is currently used the MGW shall be prepared to receive an IuUP Initialisation for the new codec. The new codec indicated in the Modify Bearer Characteristics procedure shall always result in the MGW being prepared to receive an IuUP initialisation for the new codec, even if the SDU format is unchanged. If the node terminating the modification is an RNC (The MSC shall send the RAB Parameters IE and NAS Synchronisation Indicator IE to the RNC to indicate that the codec has changed and IuUP Initialisation shall be generated.

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An example call sequence is shown in Figure 5.8.4/2.

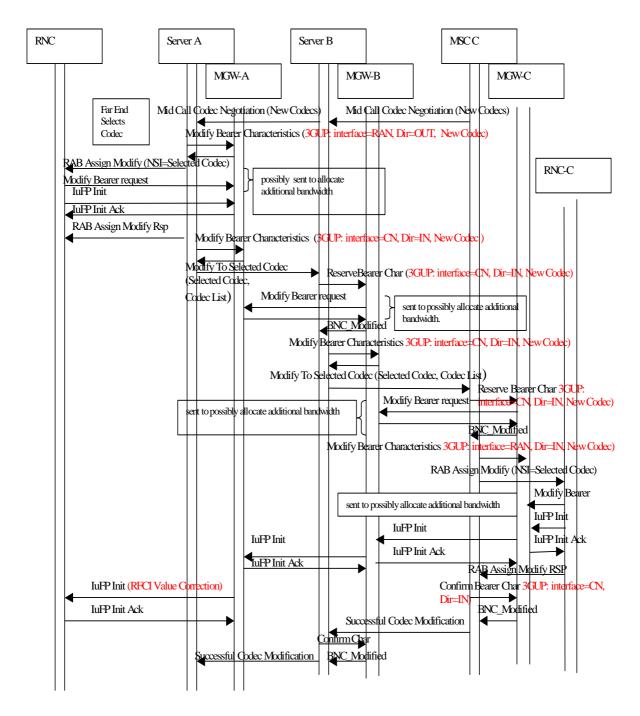


Figure 5.8.4/2: Mid Call Codec Negotiation Call Sequence

5.8.5 Unsuccessful Codec Modification

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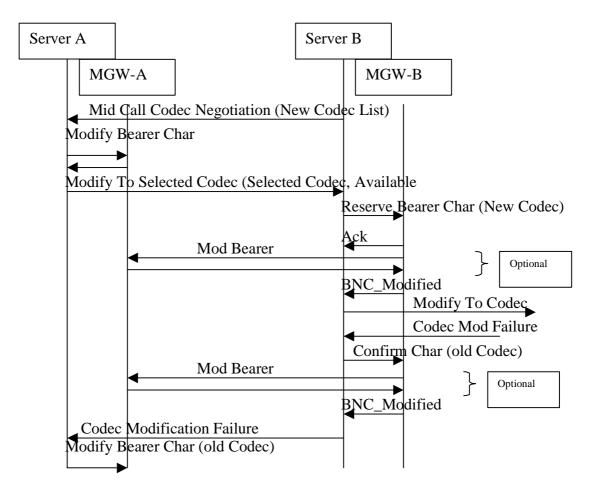


Figure 5.8.5/1: Unsuccessful Codec Modification

IuUP Initialisation Unsuccessful

Figure 5.8.5/2: Call Sequence for Unsuccessful Modification

CHANGE REQUEST										
*	23.153	CR <mark>067</mark>	≋rev	1 *	Current vers	5.5.0	æ			
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Proposed change affects: UICC apps# ME Radio Access Network Core Network										
Title: ₩	Clarificati	on of IuUP Initiali	sation during	codec m	nodification					
Source: #	CN4									
Work item code: 第	OoBTC				Date: %	28/8/2003				
Category:	F (con A (con B (add C (fun D (edi Detailed exp	the following categorection) responds to a corredition of feature), ctional modification torial modification) blanations of the ab	ection in an ear		2	Rel-5 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)				
Reason for change	for the User I the sp	e existing codec to Plane through the pecification is unc as an essential cor	hen at codec e core-networ lear in this re- rection.	modifica k or expe spect.	ation the MGW ect to receive	′ shall re-initiali an IuUP Init. C	se the urrently			
Summary of chang		fication that the M the MSC behavio					iges.			
Consequences if not approved:		working problems send one.	s – one MGW	may no	t expect an Iul	JP init when its	s peer			
Clauses affected:	% 5.8.4									
Other specs affected:	¥ N X X X	Other core spec Test specification O&M Specification	ons	*						
Other comments:	₩ This	CR is in line with	CN plenary a	and RAN	3 decisions.					

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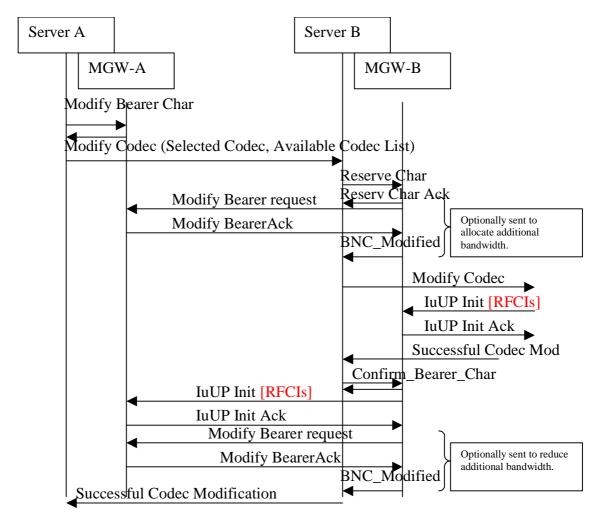


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A MGW receiving a Modify Bearer Characteristics procedure shall be prepared to receive an incoming modify bearer procedure, this may be to increase the bandwidth prior to IuUP Initialisation or to reduce the bandwidth after the IuUP Intialisation. The new codec indicated in the Modify Bearer Characteristics procedure shall always result in the MGW being prepared to receive an Iu UP initialisation for the new codec, even if the SDU format is unchanged. The MSC shall send the RAB Parameters IE and NAS Synchronisation Indicator IE to the RNC to indicate that the codec has changed and IuUP Initialisation shall be generated. As the new codec indicated in the Modify Bearer Characteristics procedure differs from the codec that is currently used the MGW shall be prepared to receive an IuUP Initialisation for the new codec.

Each termination receiving a Reserve_Char will initiate bearer level modification to the preceding node if needed - i.e. if the bandwidth needs to be increased to support the new IuUP. No IuUP initialisation occurs at this point in time. If the Codec Modification Request is terminated by a MGW the IuUP init through the core-network is triggered by the setting of the 3GUP package property "initialisation direction" to "OUT" in either the Reserve_Char or the Confirm_Char procedure; the MGW shall then start the IuUP Initialisation out from that Termination. If the node terminating the modification is an RNC then it will generate a new IuUP Initialisation toward its access MGW, each Termination shall have the initialisation direction set to "IN". Each MGW shall in turn acknowledge the IuUP Init to the succeeding node (with respect to the modification request) and forward the RFCIs in an IuUP Initialisation to the preceding MGW (as for call set-up). After completing the Iu UP initialisation and receiving the "Confirm"

Characteristics" procedure, the MGW may decrease the bandwidth of the corresponding bearer performing the "Modify Bearer" procedure (if needed) - no bearer bandwidth reduction shall be initiated while the UP is still initialised for the old codec.

An example call sequence is shown in Figure 5.8.4/2.

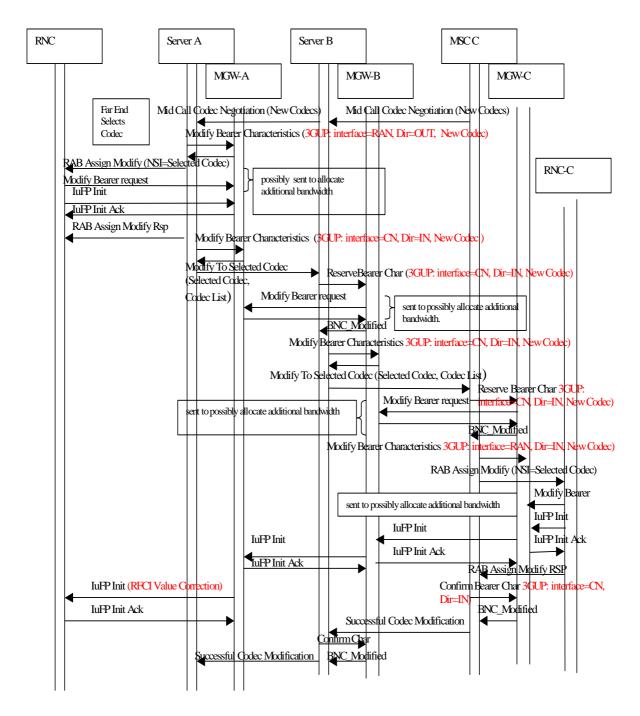


Figure 5.8.4/2: Mid Call Codec Negotiation Call Sequence

5.8.5 Unsuccessful Codec Modification

If the Codec Modification is unsuccessful at a certain node in the connection (due to the MGW rejecting a request to reserve the resources or a server rejecting the request to modify the codec) the Confirm_Char message shall be sent to a termination that previously performed a successful Reserve_Char Procedure to change the bearer back to its original bandwidth (if needed) and free up any reserved resources. However as the IuUP has not been modified, the Confirm_Char shall not trigger an IuFP re-initialisation. The basic sequence is shown in Figure 5.8.5/1 and a detailed

call flow is described in Figure 5.8.5/2. A server that performed a Modify Bearer Characteristics procedure to a termination with the new codec shall perform a subsequent Modify Bearer Characteristics procedure to that termination with the old codec in the failure case. As no IuFP initialisation occurs in the unsuccessful case the IuFP currently intialised will then match the old codec restored by the subsequent Modify Bearer Char; the MGW then knows that it can return to TrFO.

The Codec Modification Failure message shall not be returned to a preceding node until notification of the bearer level modification (BNC_Modified).

RAB Assignent Modification Failure

If the reason for failed codec modification is due to an unsuccessful RAB Modification Request then the MSC shall assume that the old RAB is resumed and thus shall restore the old codec.

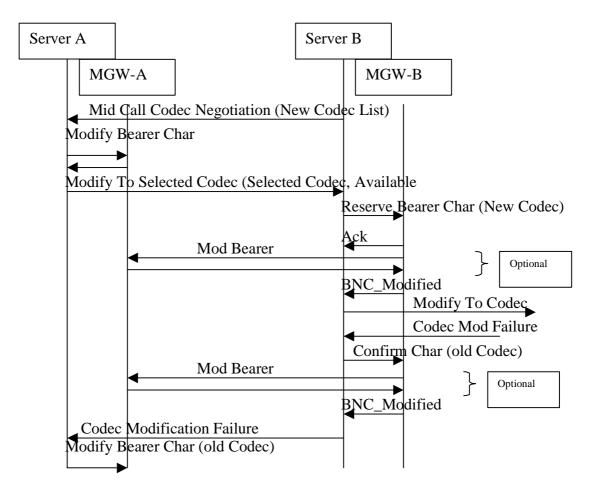


Figure 5.8.5/1: Unsuccessful Codec Modification

IuUP Initialisation Unsuccessful

Figure 5.8.5/2: Call Sequence for Unsuccessful Modification