3GPP TSG_CN
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Tdoc NP-000495

Source: TSG_N WG 4

Title: CRs to R99 Work Item Multicall

Agenda item:

Document for: APPROVAL

Introduction:

This document contains 2 CRs on R99 Work Item Multicall, that have been agreed by TSG_N WG4, and is forwarded to TSG_N Plenary meeting #9 for approval.

SMG#	TDoc	SPEC	CR	REV	PHASE	VERS	SUBJECT	CAT
CN9	N2-000737	23.135	002	4	R99	3.0.0	Requirement on Network to Tear Down Calls to Accept Emergency Calls in Multicall	F
CN9	N4-000756	23.135	004		R99	3.0.0	Correction to MT_Multicall SDL	F

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.135	CR	002r4	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-CN#09	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic	X	

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio		Core Network	X

Source: N4 **Date:** 2000-08-31

Subject: Requirement on Network to Tear Down Calls to Accept EC in Multicall

Work item: Multicall

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:

S1 has agreed to remove the following requirement from the stage 1 for Multicall:

- The UMTS network, which supports Multicall, shall accept the emergency call after tearing down existing call(s) if necessary.

The stage 2 for Multicall needs to be updated accordingly to align it with the approved CR in TSG SA WG1.

Clauses affected: 5.2.1, 6.1

Other specs affected:

Other 3G core specifications	X	→ List of CRs:	CR 22.135-xxx
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

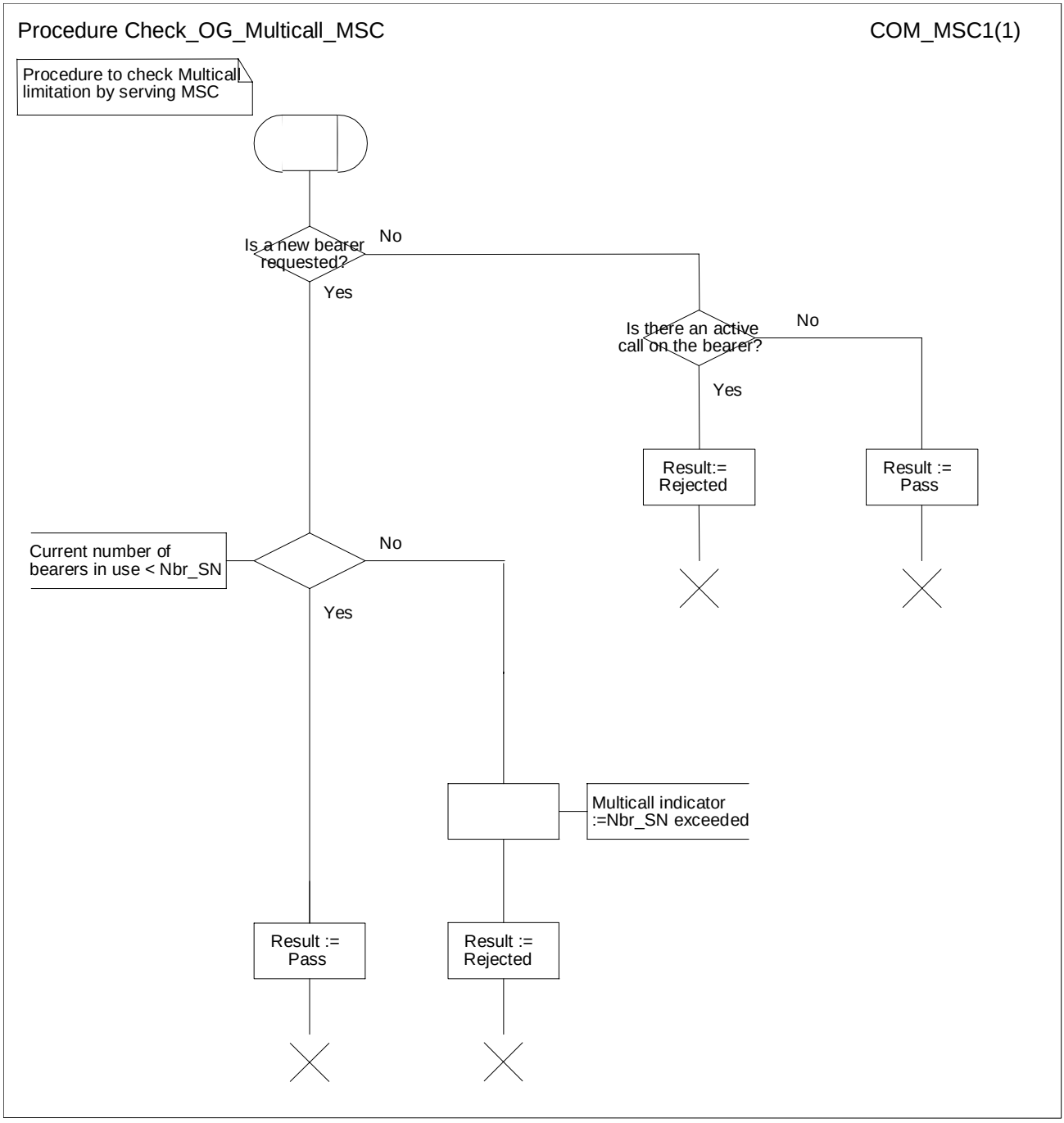
CR was presented and approved in TSG SA WG1.

5.2 MO call

5.2.1 Functional requirements of serving MSC

Figure 8: Procedure Check_OG_Multicall_MSC.

This procedure is called when the MSC receives a Setup message from the MS. After handover procedure completion to another MSC, N_{br}_SN as defined for the target MSC shall overwrite the previous N_{br}_SN.


Procedure Check_OG_Multicall_MSC
COM_MSC1(1)
Procedure to check Multicall limitation by serving MSC
Is a new bearer requested?
No
Yes
Is there an active call on the bearer?
No
Yes
Result:= Rejected
Result := Pass
Current number of bearers in use < Nbr_SN
No
Yes
Multicall indicator :=Nbr_SN exceeded
Result := Pass
Result := Rejected

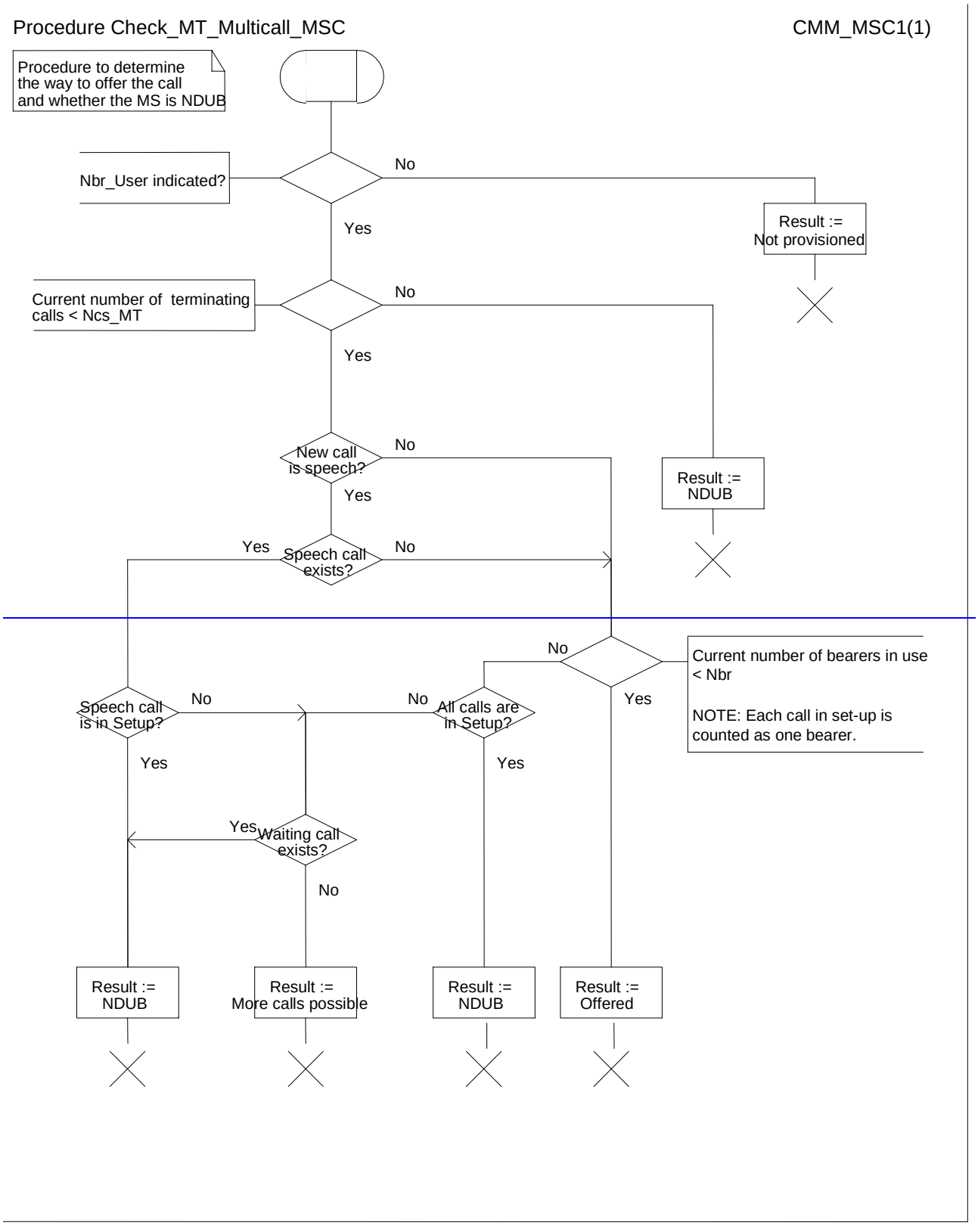


Figure 8: Procedure Check_OG_Multicall_MSC

6 Interaction with telecommunication services

6.1 Speech

The Multicall supplementary service does not provide multiple traffic channels for speech calls. Refer to Procedure Check_OG_Multicall_MSC and Procedure Check_MT_Multicall_MSC.

If N_{br}_UE is greater than N_{br}_SN, the mobile station may initiate an Emergency call even if N_{br}_SN has been reached. When the network receives an Emergency call setup message from the mobile station:

- if N_{br}_SN has not been reached, the network shall accept it regardless of N_{br}_SB or N_{br}_User;
- if N_{br}_SN has been reached, the network shall reject the emergency call setup attempt ~~accept the emergency call after tearing down all other active calls~~. The MS shall release one or more existing calls and it shall re-initiate an Emergency call.

The MS shall ensure that an emergency call setup request is acceptable to a serving network which does not support multicall, if necessary by releasing one or more existing calls.

3GPP TSG CN WG4 Meeting #4
Seattle, USA, 28th August – 1st September 2000 ***Document N4-000756***

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

23.135	CR	004	Current Version:	3.1.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-CN#09	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic	X	

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio		Core Network	X

Source: N4 **Date:** 2000-08-31

Subject: Correction to MT_Multicall SDL

Work item: Multicall

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification	X		Release 99	X
				Release 00	

Reason for change: Figure 10 needs to be replaced in order to reflect CR 001 correctly.

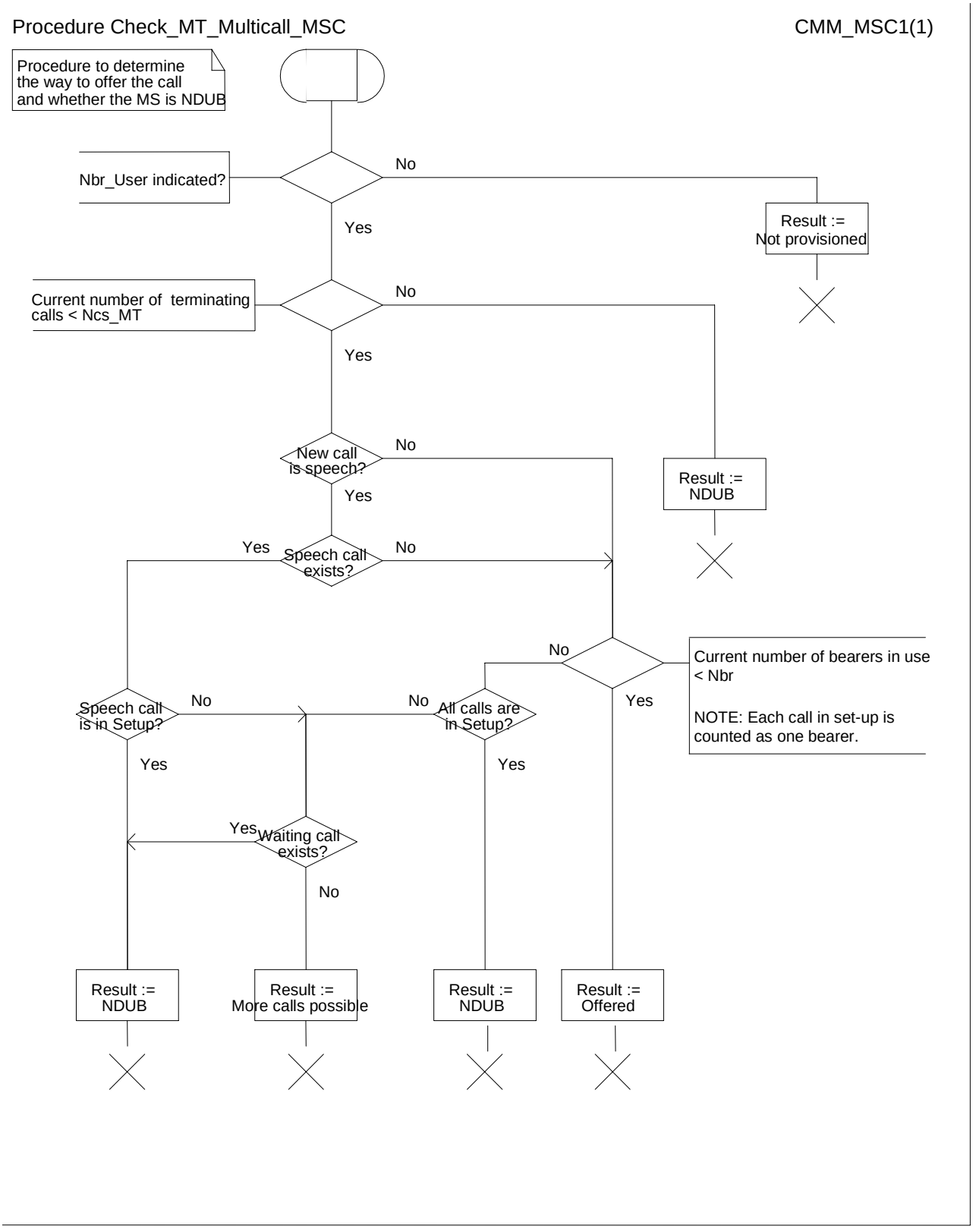
Clauses affected: 5.3.1

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

5.3 MT call

5.3.1 Functional requirements of serving MSC



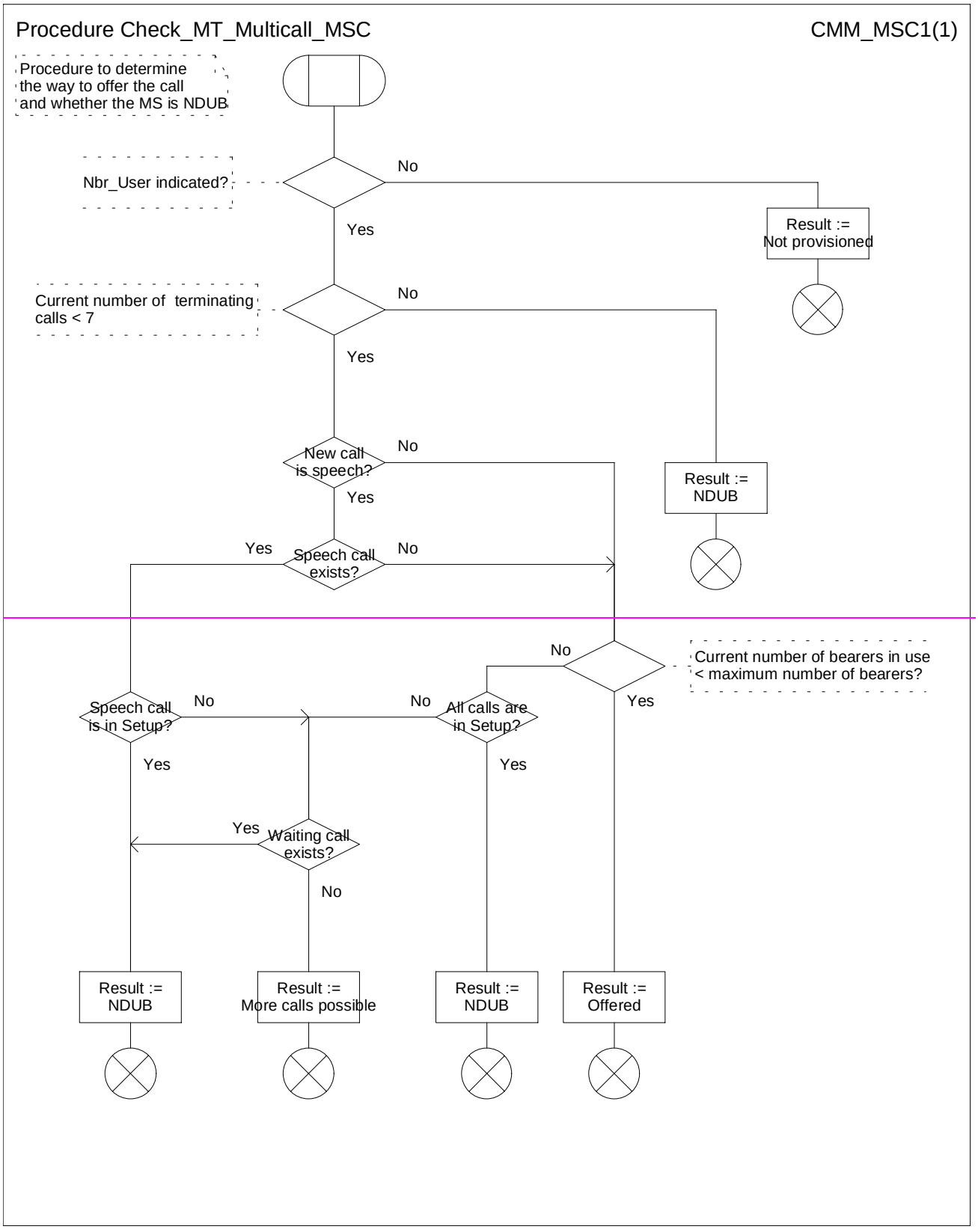


Figure 10: Procedure Check_MT_Multicall_MSC