

3GPP TSG CN Plenary Meeting #24
2nd – 4th June 2004 Seoul, KOREA.

NP-040217

Source: TSG CN WG4
Title: Corrections on Camel4
Agenda item: 8.3
Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level N4-040	Phase	Subject	Cat	Ver_C
23.079	080		588	Rel-5	Enhancement to Route_Permitted procedure to handle Short/ Long FTNs	F	5.4.0

CHANGE REQUEST

⌘ **23.079 CR 080** ⌘ rev **5.4.0** ⌘ Current version: **5.4.0** ⌘

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

Title:	⌘ Enhancement to Route_Permitted procedure to handle Short/ Long FTNs		
Source:	⌘ CN4		
Work item code:	⌘ CAMEL4	Date:	⌘ 5/05/2004
Category:	⌘ F	Release:	⌘ Rel-5
Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:	
F (correction)		2	(GSM Phase 2)
A (corresponds to a correction in an earlier release)		R96	(Release 1996)
B (addition of feature),		R97	(Release 1997)
C (functional modification of feature)		R98	(Release 1998)
D (editorial modification)		R99	(Release 1999)
		Rel-4	(Release 4)
		Rel-5	(Release 5)
		Rel-6	(Release 6)

Reason for change:	⌘	<p>When the GMSC processes a request for Optimal Routeing of Late Call Forwarding (ORLCF), it uses the Route_Permitted procedure. This procedure compares Country Codes to determine whether a route is allowed or not. The requested route depends on the Forwarded-to-Number (FTN), which is conveyed from VMSC to GMSC, in MAP Resume Call Handling (RCH).</p> <p>A CAMEL subscriber with TIF-CSI may register an FTN in HLR, in format other than international E.164. Such number, which may e.g. be a VPN short code or "Long FTNs", may not include a Country Code and hence can't be handled by the current Route_Permitted procedure.</p> <p>As a result, ORLCF can't be applied in combination with VPN-forwarding.</p> <p>When forwarding occurs to a VPN address, a CAMEL Service will translate the VPN Address (the "short FTN") into a corresponding routeable address, i.e. an E.164 number. Therefore, ORLCF for FTNs of which no country code can be determined, shall be allowed only when the FTN in MAP RCH is accompanied by O-CSI or D-CSI.</p>
Summary of change:	⌘	<ul style="list-style-type: none">▪ Enhancement of the Route_Permitted procedure for ORLCF to allow OR of short / long FTNs, provided that O-CSI/ D-CSI is also received in RCH.▪ Correction to OR_Handle_RCH procedure to ensure Reference address and OR indicator is set appropriately before the Route_Permitted procedure is called.

	<ul style="list-style-type: none"> ▪ Removal of note stating 'This is the simplified version for phase 1 of OR' from Figure 8.
Consequences if not approved:	⌘ A GMSC will reject an ORLCF request for VPN forwarding (e.g. to voicemail or to colleague). As a result, VPN forwarding won't benefit from ORLCF. OR_Handle_RCH and Route_Permitted procedures remain ambiguous causing implementation difficulties.

Clauses affected:	⌘ 9.4.2: Figure 7a & 7c; 9.4.3: Figure 8																
Other specs affected:	<table border="1"> <thead> <tr> <th>Y</th> <th>N</th> <th></th> <th>⌘</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>Other core specifications</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>Test specifications</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>O&M Specifications</td> <td></td> </tr> </tbody> </table>	Y	N		⌘		X	Other core specifications			X	Test specifications			X	O&M Specifications	
Y	N		⌘														
	X	Other core specifications															
	X	Test specifications															
	X	O&M Specifications															
Other comments:	⌘																

***** First Modified Section *****

9.4 Functional behaviour of GMSC

9.4.2 Procedure OR_Handle_RCH

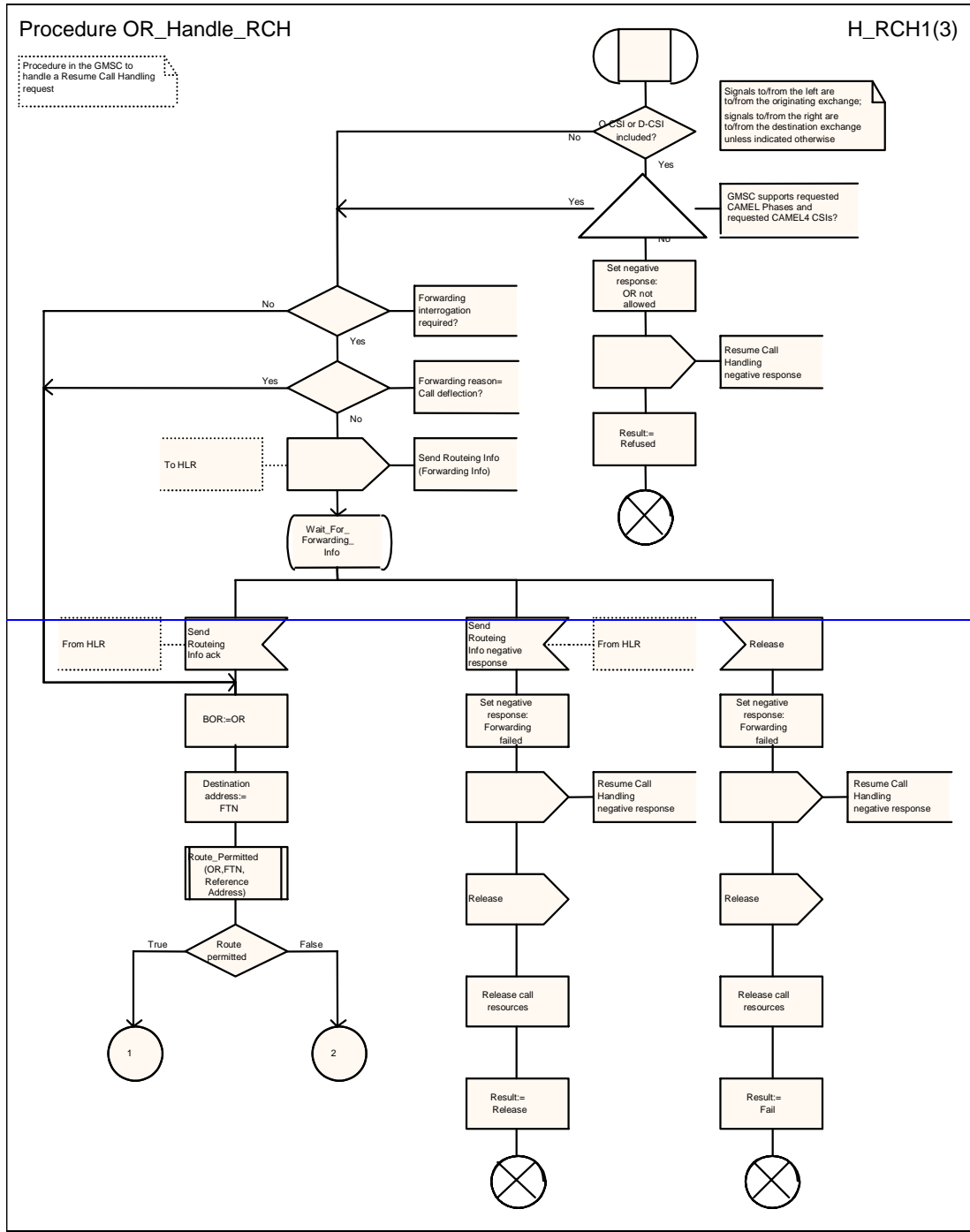


Figure 7a: Procedure OR_Handle_RCH (sheet 1)

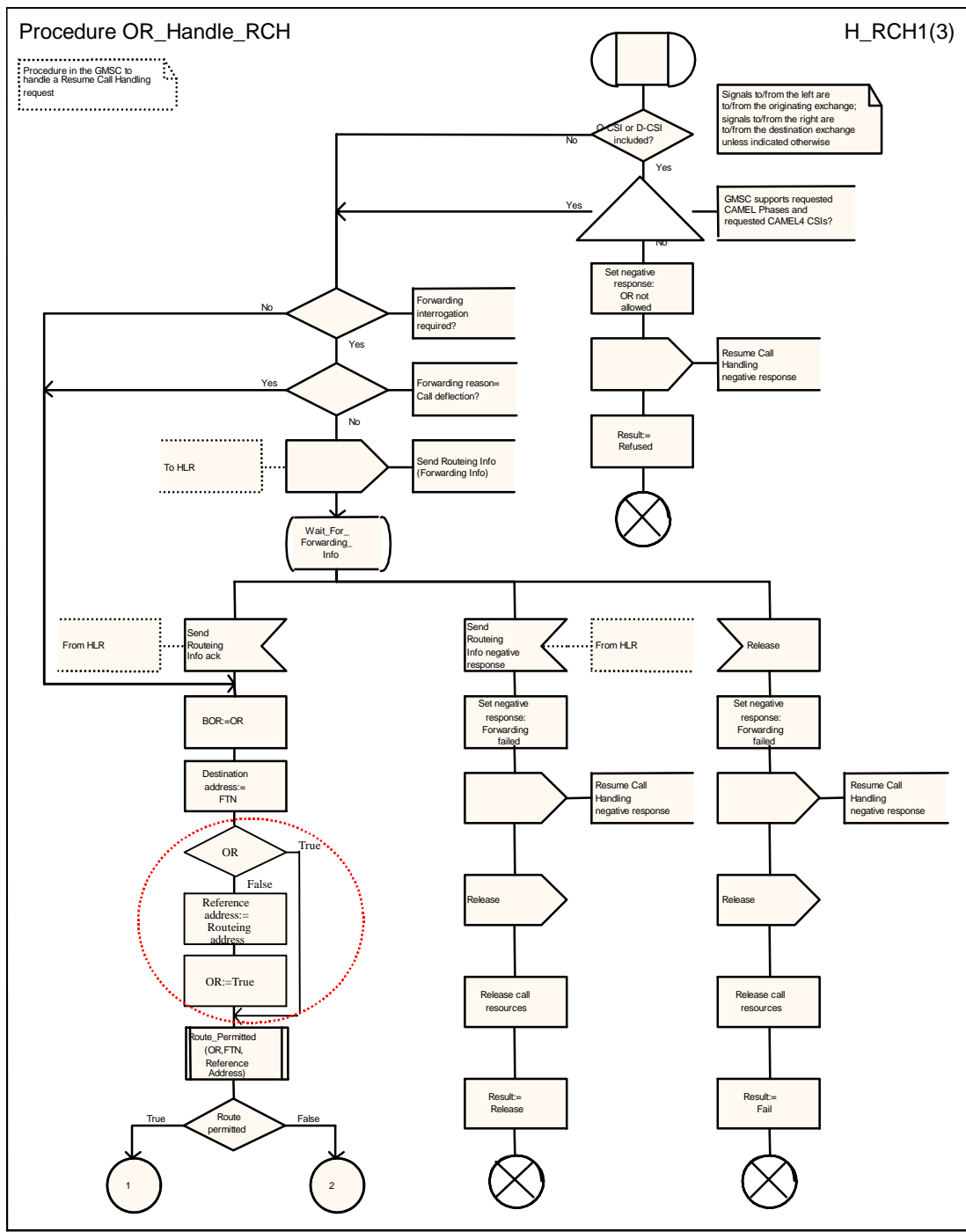


Figure 7a: Procedure OR Handle RCH (sheet 1)

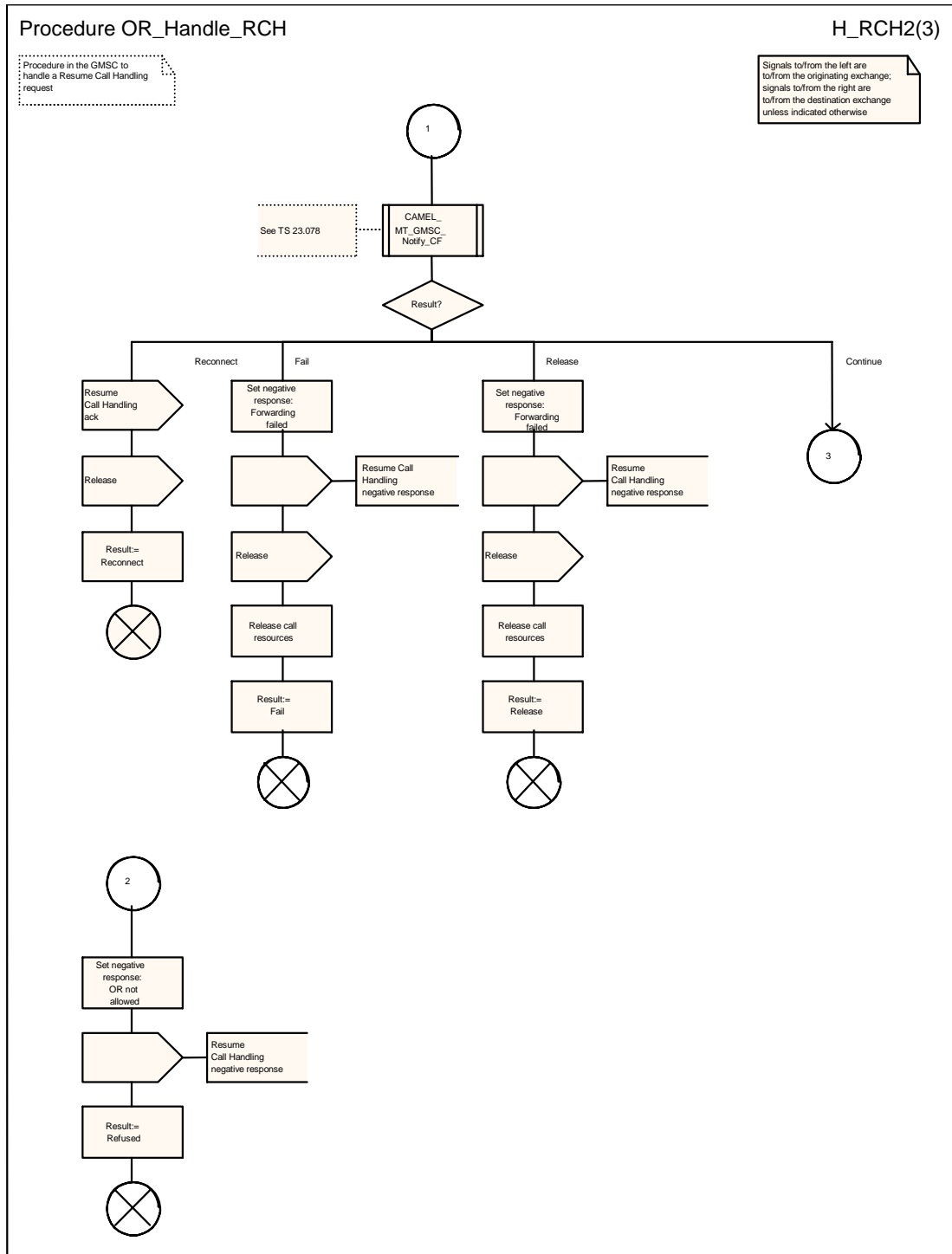


Figure 7b: Procedure OR_Handle_RCH (sheet 2)

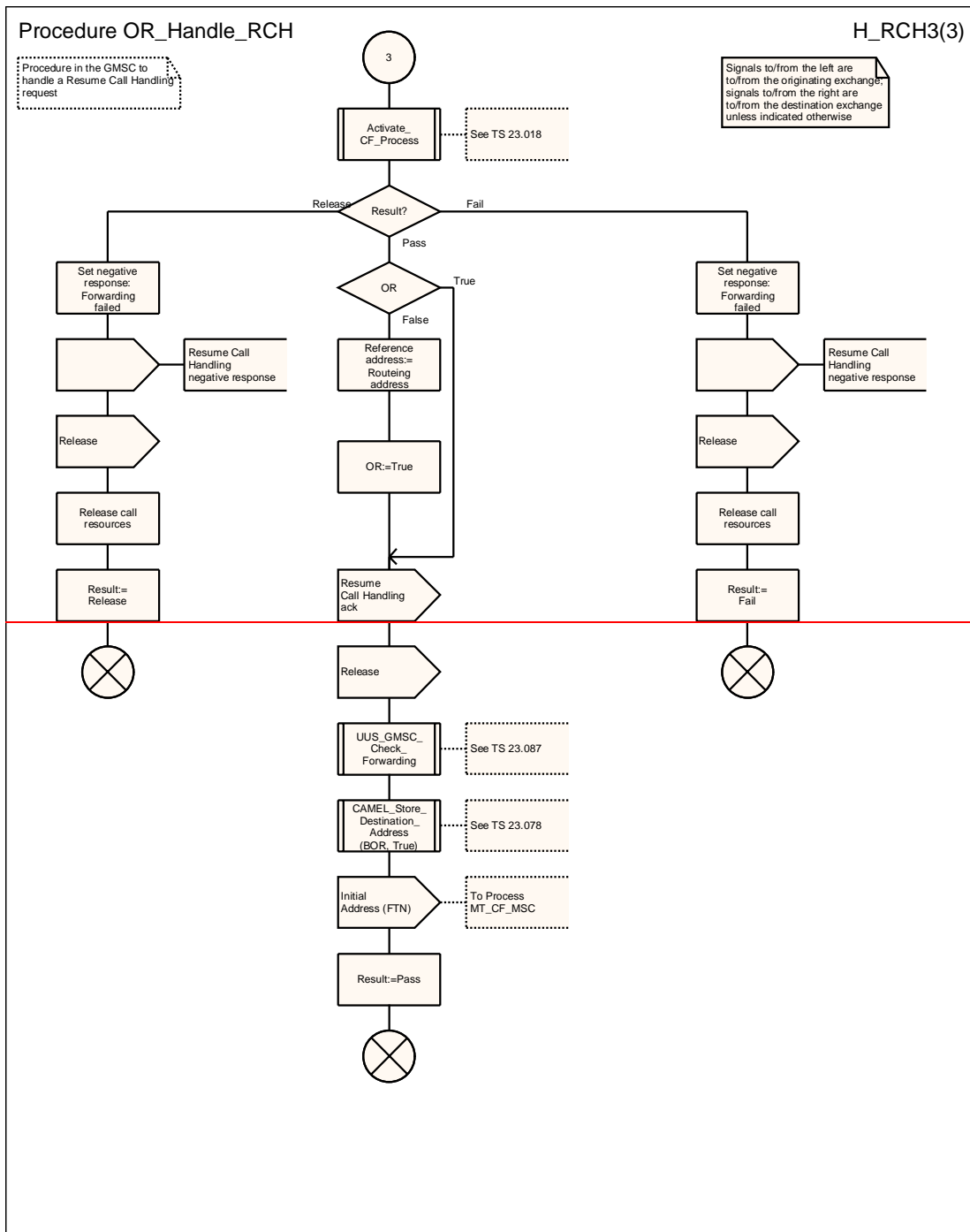


Figure 7c: Procedure OR_Handle_RCH (sheet 3)

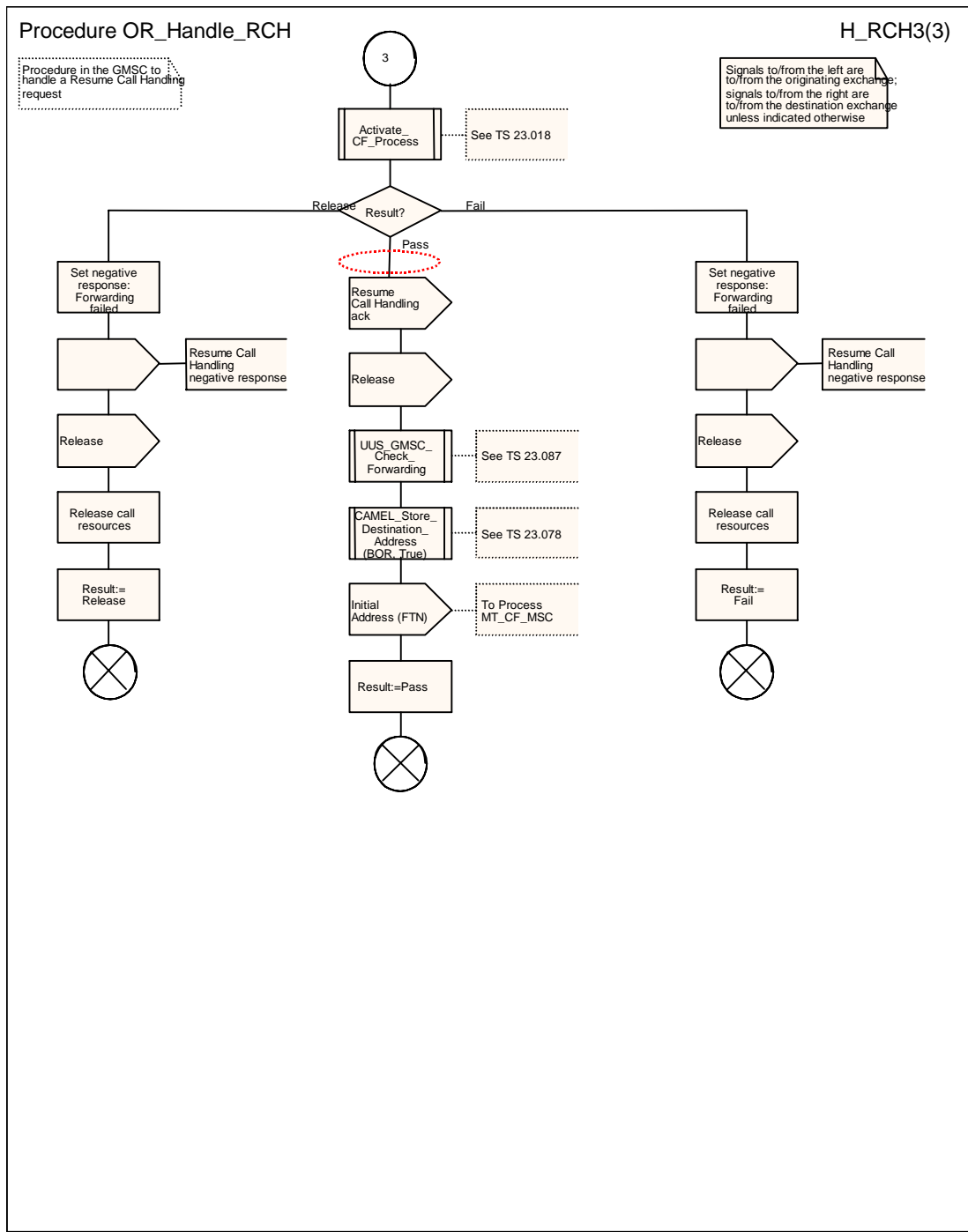


Figure 7c: Procedure OR_Handle_RCH (sheet 3)

*** Next Modified Section ***

9.4.3 Procedure Route_Permitted

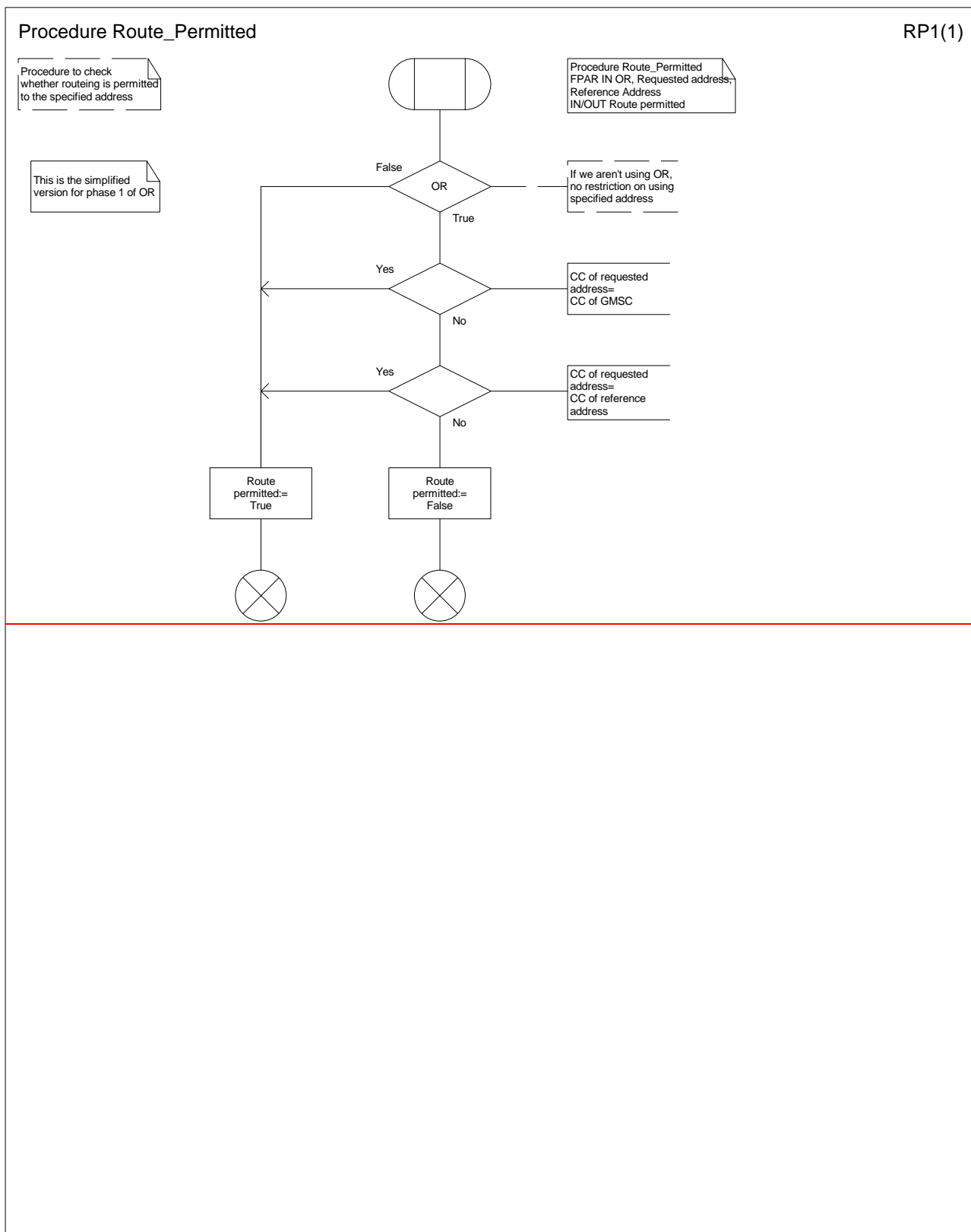


Figure 8: Procedure Route_Permitted

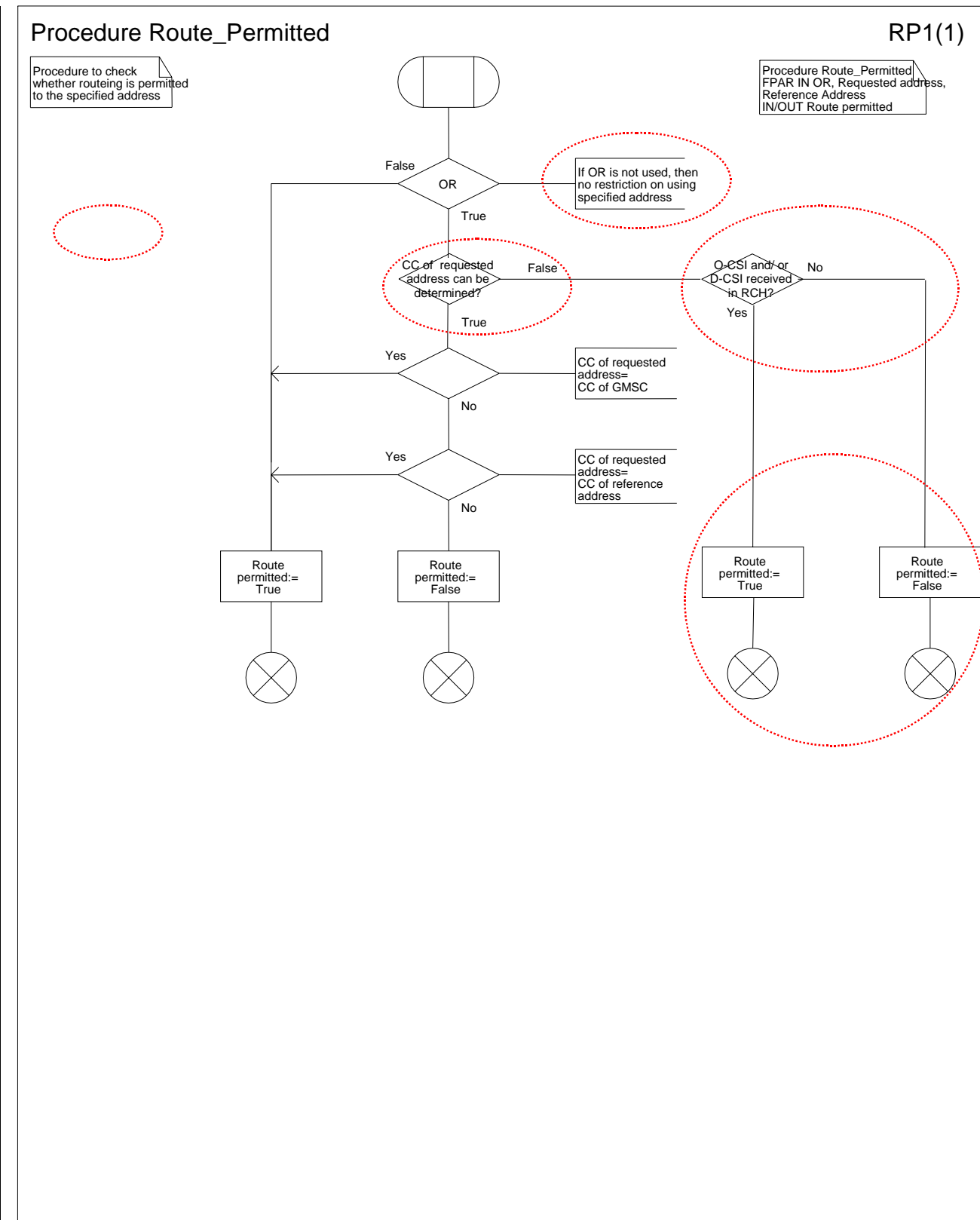


Figure 8: Procedure Route_Permitted

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