3GPP TSG CN Plenary Meeting #20 4th - 6th June 2003. HÄMEENLINNA, Finland.

Source:	CN2
Title:	CRs on Rel-5 Work Item IMS-CAMEL
Agenda item:	8.1
Document for:	APPROVAL

Introduction:

This document contains 3 CRs on ReI-5 WI IMS-CAMEL (TS 23.278). These CRs have been agreed by TSG CN WG2 and are forwarded to TSG CN Plenary meeting #20 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.278	40	1	N2-030302	Rel-5	Incorrect list of TDPs listed for O-IM-CSI	F	5.2.0
23.278	41		N2-030261	Rel-5	Corrections to process IM_SSF	F	5.2.0
					Redundant check for Final_Response_Received		
23.278	42		N2-030262	Rel-5	in Disconnect procedures.	F	5.2.0

3GPP TSG-CN WG2 Meeting #29 San Diego, USA 19th – 23rd May 2003.

Tdoc **#N2-03026**1

CR-Form-v7 CHANGE REQUEST # Current version: 5.2.0 ж 23.278 CR 041 ж жrev For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **#** symbols. Core Network X Proposed change affects: UICC apps **#** ME Radio Access Network Title: æ Corrections to process IM SSF Source: ж Lucent Technologies Work item code: # IMS-CAMEL Date: # 07/05/2003 ж F Category: Release: # Rel-5 Use one of the following categories: Use one of the following releases: (GSM Phase 2) **F** (correction) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) B (addition of feature), (Release 1997) R97 **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can (Release 4) Rel-4 be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change: #	destination S-CSCF via S-CSCF" is found to indicate the source/destination of an input/output from the right. This is correct except for the 100 Trying input from the right, where it is a "hop-by-hop" response. This means that if the INVITE was sent from the IM-SSF to the destination S-CSCF via the originating S-CSCF, that it is the originating S-CSCF acting as a proxy which sent the 100 Trying response to the IM-SSF, and not the destination S-CSCF as the note indicates. A similar problem is found in the SDL process MT_IM_SSF. This CR will also correct some other minor erros found the MO_IM_SSF process. I.e. sending of 200 OK as a response to the provisional response.
Summary of change: ¥	The following changes are made: - Add clarifying text to explain that in Process MO_IM_SSF, the 100Trying input received in the IM-SSF is actually generated and sent by the S-CSCF acting as a proxy. Add similar text to clarify the case in MT_IM_SSF. - Remove sending of 200 OK as response to provisional response in MO_IM_SSF(sheet 2) and MT_IM_SSF (sheet 2).
Consequences if % not approved:	Incorrect IM-SSF process.
Clauses affected: #	4.6.1.3, 4.6.1.4
Other specs %	Y N X Other core specifications %

affected:	X Test specifications X O&M Specifications
Other comments:	×

– Modified section –

4.6.1.3 Handling of Mobile Originated Calls in the IM-SSF

The functional behaviour of the S-CSCF is specified in 3GPP TS 23.218 [Error! Reference source not found.]. The process and the procedures specific to CAMEL are specified in this subclause:

<u>...</u>

4.6.1.3.7 Handling of procedure CAMEL_OCH_CTR, sheet 5

The specifics on transporting information between the MRFC and the Application Server such as the IM-SSF, has not been standardised in 3GPP Rel-5 specifications for IMS. i.e. the SIP method to return the Prompt_and_Collect result from the MRFC to the IM-SSF, the SIP method for sending notification of play announcement completion to the IM-SSF when a request for a Specialised Resource Report was received, the SIP method to request the MRFC to play announcement and the SIP method to request the MRFC to prompt and collect user information, are not standardised.

4.6.1.3.8 Receipt of 100 Trying Provisional Response (Process MO_IM_SSF)

The IM-SSF (acting as B2BUA) uses the S-CSCF as the next-hop server when sending the SIP INVITE to the destination S-CSCF. The 100 Trying provisional response received in the IM-SSF is actually generated and sent from the S-CSCF to indicate that the INVITE request has been received by the next-hop server (i.e. the S-CSCF) and is currently being processed.

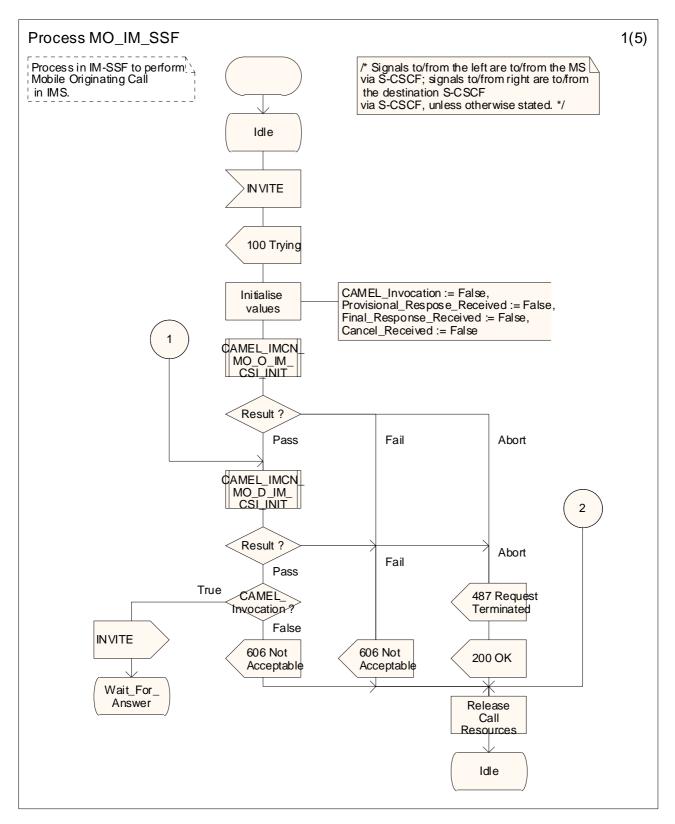
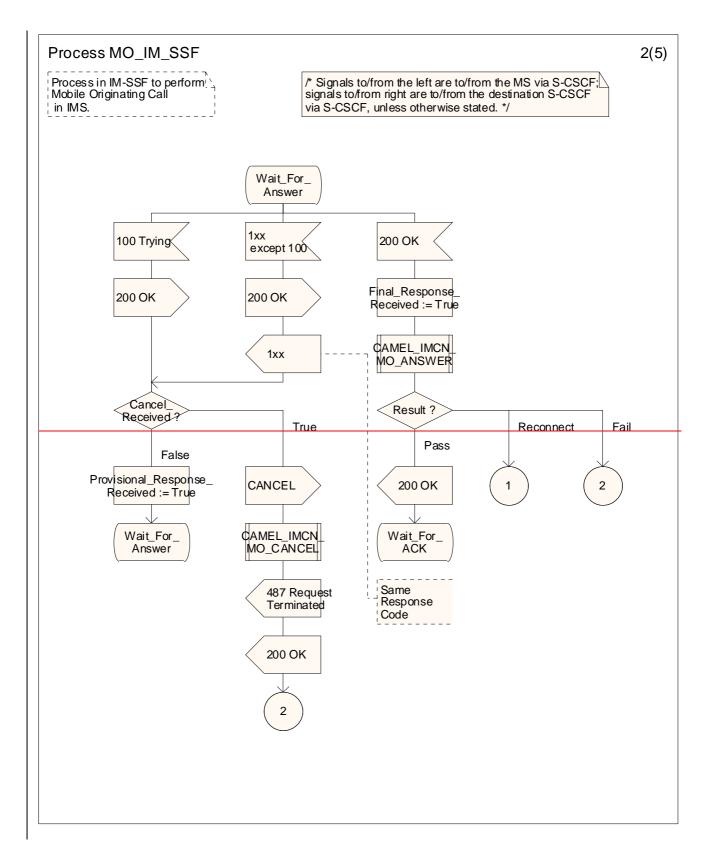


Figure 4.13-1: Process MO_IM_SSF (sheet 1)



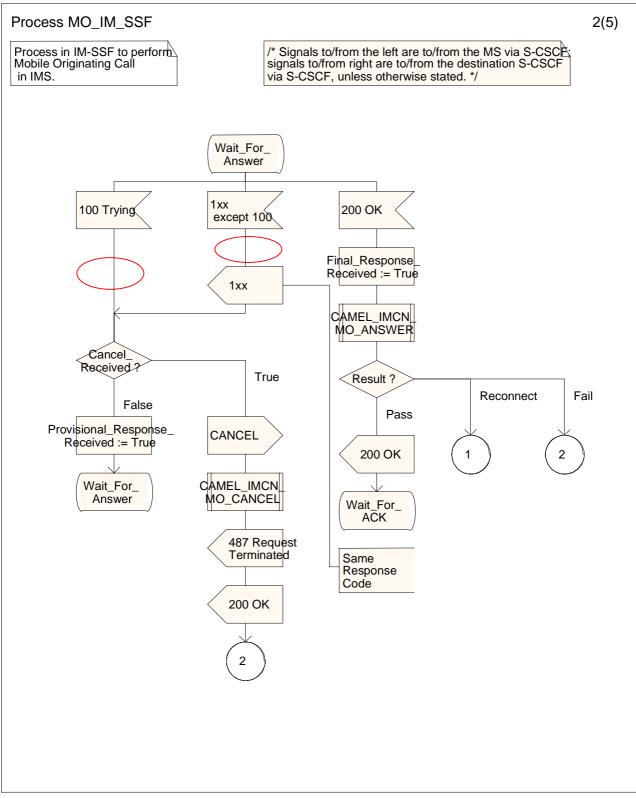


Figure 4.13-2: Process MO_IM_SSF (sheet 2)

- Next modified section ---

4.6.1.4 Handling of Mobile Terminated IP Multimedia sessions in the IM-SSF

<u>...</u>

4.6.1.4.6 Handling of procedure CAMEL_MT_CTR, sheet 5

The specifics on transporting information between the MRFC and the Application Server such as the IM-SSF, has not been standardised in 3GPP Rel-5 specifications for IMS. i.e. the SIP method to return Prompt_And_Collect result from the MRFC to the IM-SSF, the SIP method for sending notification of play announcement completion to the IM-SSF when a request for a Specialised Resource Report was received, the SIP method to request the MRFC to play announcement and the SIP method to request the MRFC to prompt and collect user information, are not standardised.

4.6.1.4.7 Receipt of 100 Trying Provisional Response (Process MT_IM_SSF)

The IM-SSF (acting as a B2BUA) uses the S-CSCF as a next-hop server when sending the SIP INVITE to the terminating subscriber. The 100 Trying provisional response received in the IM-SSF is actually generated and sent from the S-CSCF to indicate that the INVITE request has been received by the next-hop server (i.e. the S-CSCF) and is currently being processed.

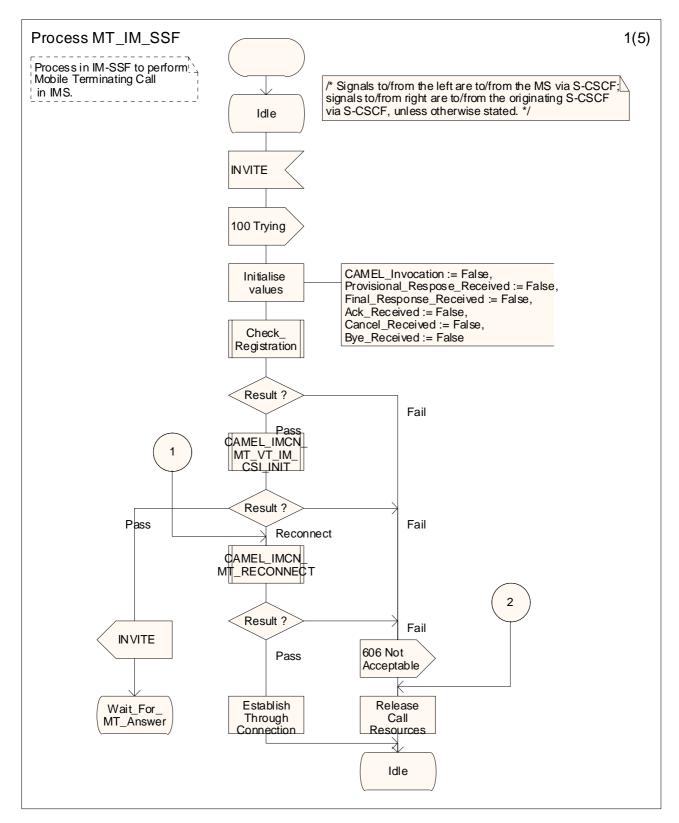
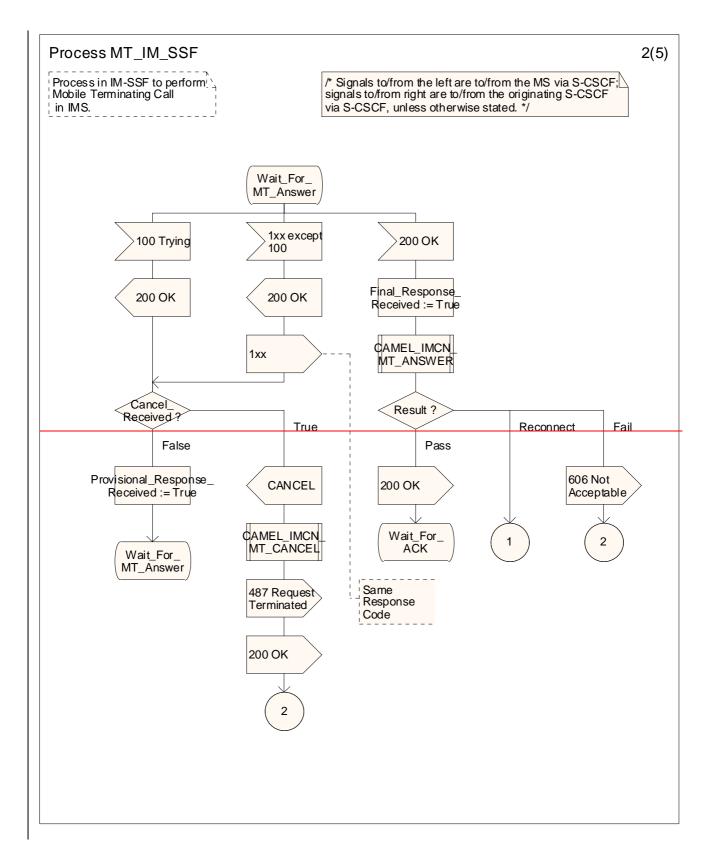


Figure 4.22-1: Process MT_IM_SSF (sheet 1)



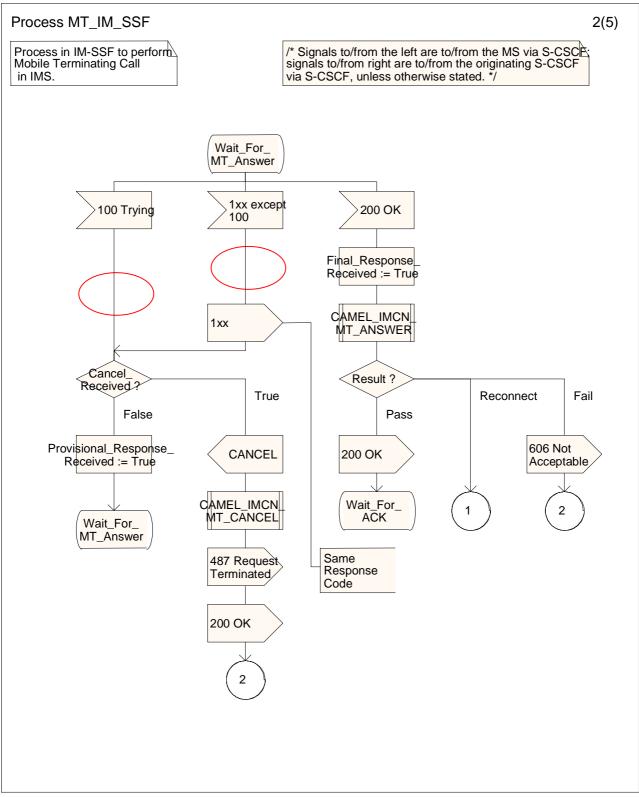


Figure 4.22-2: Process MT_IM_SSF (sheet 2)

End

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Consequences if

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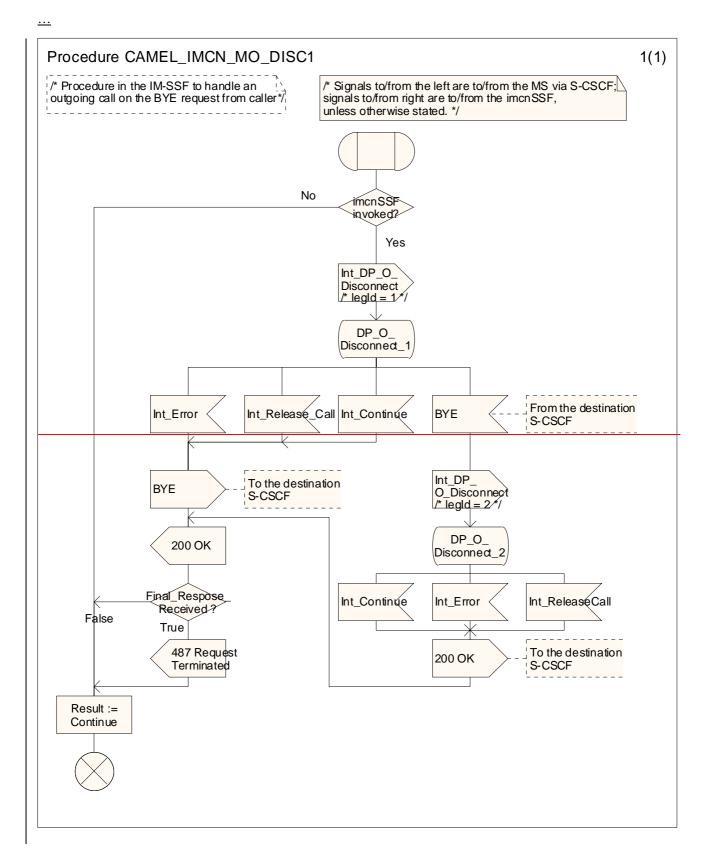
Summary of change: * Remove the decision box for Final_Response_Received from CAMEL_IMCN_MO_DISC1 and CAMEL_IMCN_MT_DISC1.

Incorrect procedure.

not approved:	
Clauses affected:	¥ 4.6.1.3, 4.6.1.4
Other specs affected:	Y N % X Other core specifications % X Test specifications X O&M Specifications
Other comments:	¥

– Modified section –

4.6.1.3 Handling of Mobile Originated Calls in the IM-SSF



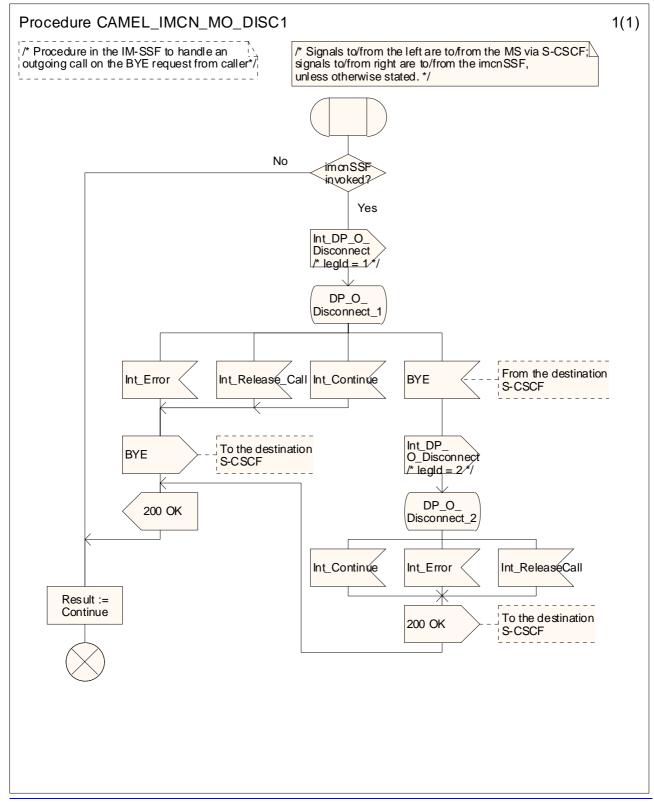
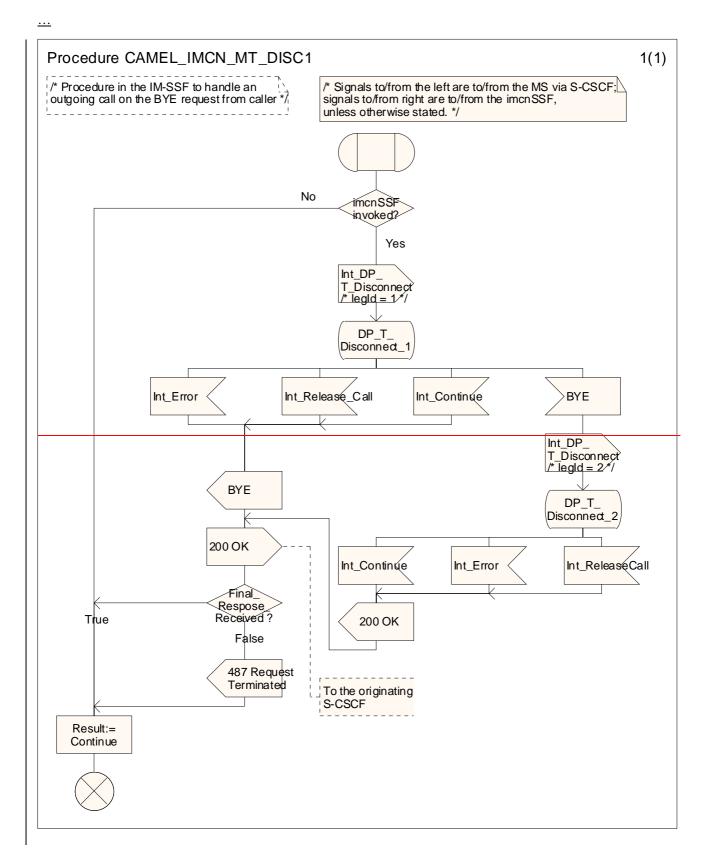
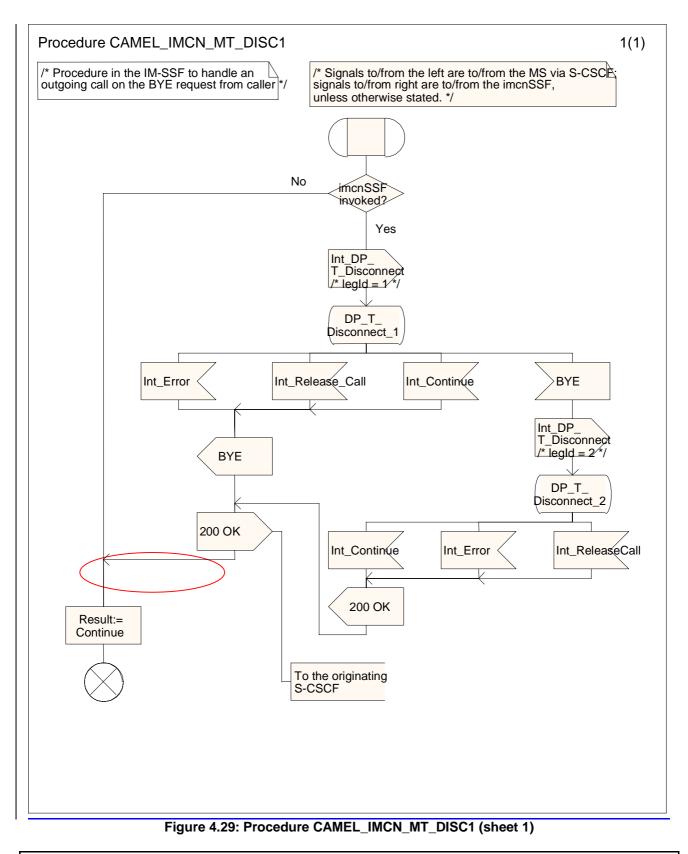


Figure 4.19: Procedure CAMEL_IMCN_MO_DISC1 (sheet 1)

- Next modified section ---

4.6.1.4 Handling of Mobile Terminated IP Multimedia sessions in the IM-SSF





End

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Reason for change: %	Subclause 4.4.1.1.4 in the stage 2 specification indicates a list of terminating Trigger Detection Points that may be included in the O-IM-CSI data. This is incorrect and inconsistent with the rest of the CAMEL/IMS specification on O-IM- CSI TDPs. The O-IM-CSI can only include the following originating TDPs: DP Collected_Infoand DP Route_Select_Failure.							
Summary of change: ೫	Modify the list of TDPs that may be included for the O-IM-CSI as follows: DP Collected_Info and DP Route_Select_Failure.							
Consequences if % not approved:	Inconsistent specification that leads to confusion.							
Clauses affected: %	4.4.1.1.4							
Other specs %								
affected:	X Test specifications X O&M Specifications							

Other comments: #

*** First Modification ***

4.4.1.1 Originating IP Multimedia CAMEL Subscription Information (O-IM-CSI)

4.4.1.1.1 gsmSCF Address

Address to be used to access the gsmSCF for a particular subscriber. The address shall be an E.164 number to be used for routeing.

4.4.1.1.2 Service Key

The Service Key identifies to the gsmSCF the service logic that shall apply.

4.4.1.1.3 Default Call Handling

The Default Call Handling indicates whether the IP Multimedia session shall be released or continued as requested in case of error in the IM-SSF to gsmSCF dialogue.

4.4.1.1.4 TDP List

The TDP List indicates on which detection point triggering shall take place. The following trigger detection points are possible: DP Terminating_Attempt_Authorised, DP T_Busy, and DP T_No_AnswerCollected Info and DP Route Select_Failure.

4.4.1.1.5 CAMEL Capability Handling

CAMEL Capability Handling indicates the phase of CAMEL which is asked by the gsmSCF for the service.

4.4.1.1.6 CSI Status

The CSI state indicates whether the O-IM-CSI is active or not.

4.4.1.1.7 Notification Flag

The notification flag indicates whether changes of the O-IM-CSI shall trigger the Notification on Change of Subscriber Data. In order to update the IM-SSF of IM CSI changes, this flag shall be set to yes.

4.4.1.1.8 DP Criteria

The DP criteria indicate whether the IM-SSF shall request the gsmSCF for instructions.

*** End of Modification ***