

3GPP TSG_CN#7
ETSI SMG3 Plenary Meeting #7,
Madrid, Spain
13th – 15th March 2000

NP-000033

Agenda item: 5.2.3
Source: TSG_N WG 2
Title: CRs to 3G Work Item CAMEL phase 2

Introduction:

This document contains “6” CRs on **Work Item CAMEL phase 2**, that have been agreed by **TSG_N WG 2**, and are forwarded to **TSG_N Plenary meeting #7** for approval.

Tdoc	Spec	CR	Rev	Cat	Rel	Old ver	New ver	Subject
N2B000283	03.78	A151	1	R97	F	6.5.0	6.6.0	Correction of CF notification (C1)
N2B000284	03.78	A152	1	R98	A	7.2.0	7.3.0	Correction of CF notification (C1)
N2B000285	23.078	091	1	R99	A	3.3.0	3.4.0	Correction of CF notification (C1)
N2A000229	03.78	A153	1	R97	F	6.5.0	6.6.0	Correction on gsmSSF SDL; return to idle after ACR (C2)
N2A000230	03.78	A154	1	R98	A	7.2.0	7.3.0	Correction on gsmSSF SDL; return to idle after ACR (C2)
N2A000231	23.078	114	1	R99	A	3.3.0	3.4.0	Correction on gsmSSF SDL; return to idle after ACR (C2)

CHANGE REQUEST

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

03.78 CR A151r1

Current Version: **6.5.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Source: CN WG2

Date: 7 Feb 2000

Subject: Correction of CF Notification

Work item: CAMEL Phase 2

Category:
(only one category shall be marked with an X)
F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:
Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change: See next page for detail.

Clauses affected:

Other specs affected:
Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs: 03.18-A057, 03.79-A024
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments: Assessment: Siemens sees the problem identified in this CR serious and the correction shall be essential for all the manufactures and the operators. Therefore, this CR should fall into the category 1 (C1) as classified at the CN#5 meeting, Kyongju.

Reason for change:

Problem - Endless loop in Obtain_Routing Address (GSM TS 03.18):

The first SRI and SRI ack are done in Obtain_Routing Address. Then CAMEL_MT_GMSC_INIT (GSM TS 03.78) is called.

1. If the terminating service logic sends CONTINUE in CAMEL_MT_GMSC_INIT, the second SRI is sent and SRI ack contains FTN and O-CSI if the subscriber is not reachable. This procedure provides the output as „FTN“.
2. Returning to procedure Obtain_Routing_Address, it calls the Procedure CAMEL_MT_GMSC_Notify_CF (GSM TS 03.78)
3. In CAMEL_MT_GMSC_Notify_CF, the terminating service logic is informed about CFNRc by EVENT REPORT BCSM.
4. The gsmSCF may answer with CONNECT.
5. The procedure CAMEL_MT_GMSC_Notify_CF delivers output "Reconnect".
6. Returning to Obtain_Routing Address, it calls the procedure CAMEL_MT_GMSC_INIT again.
7. The procedure CAMEL_MT_GMSC_INIT delivers again output 'FTN'.
8. The procedure Obtain_Routing_Address calls again procedure CAMEL_MT_GMSC_Notify_CF.

The CFNRc data are still stored therefore it starts from the beginning

Proposed Correction:

The proposal is to call procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) only for GSM-CF, i.e. gsmSCF shall not be notified about new Called Party Number being received from it in CONNECT.

Therefore a new outputs 'CAMEL_FTN' and 'GSM_FTN' are defined in Procedure CAMEL_MT_GMSC_INIT (in GSM TS 03.78). This is to be checked in procedure Obtain_Routing_Address (in GSM TS 03.18). If result = 'CAMEL_FTN' procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) shall not be called. CF process shall be started instead.

Correction on GSM TS 03.78

Further, a new check on Called Party Number is proposed in CAMEL_MT_GMSC_Notify_CF procedure. If the same number is delivered in CONNECT then CF process shall be started immediately, i.e. there shall be no Reconnect attempt.

Correction on GSM TS 03.79

Last issue is the interworking with OR – when terminating logic is informed about ORLCF and sends a new Called Party Number in CONNECT then the connection to VMSC shall be released and RESUME CALL HANDLING shall be sent.

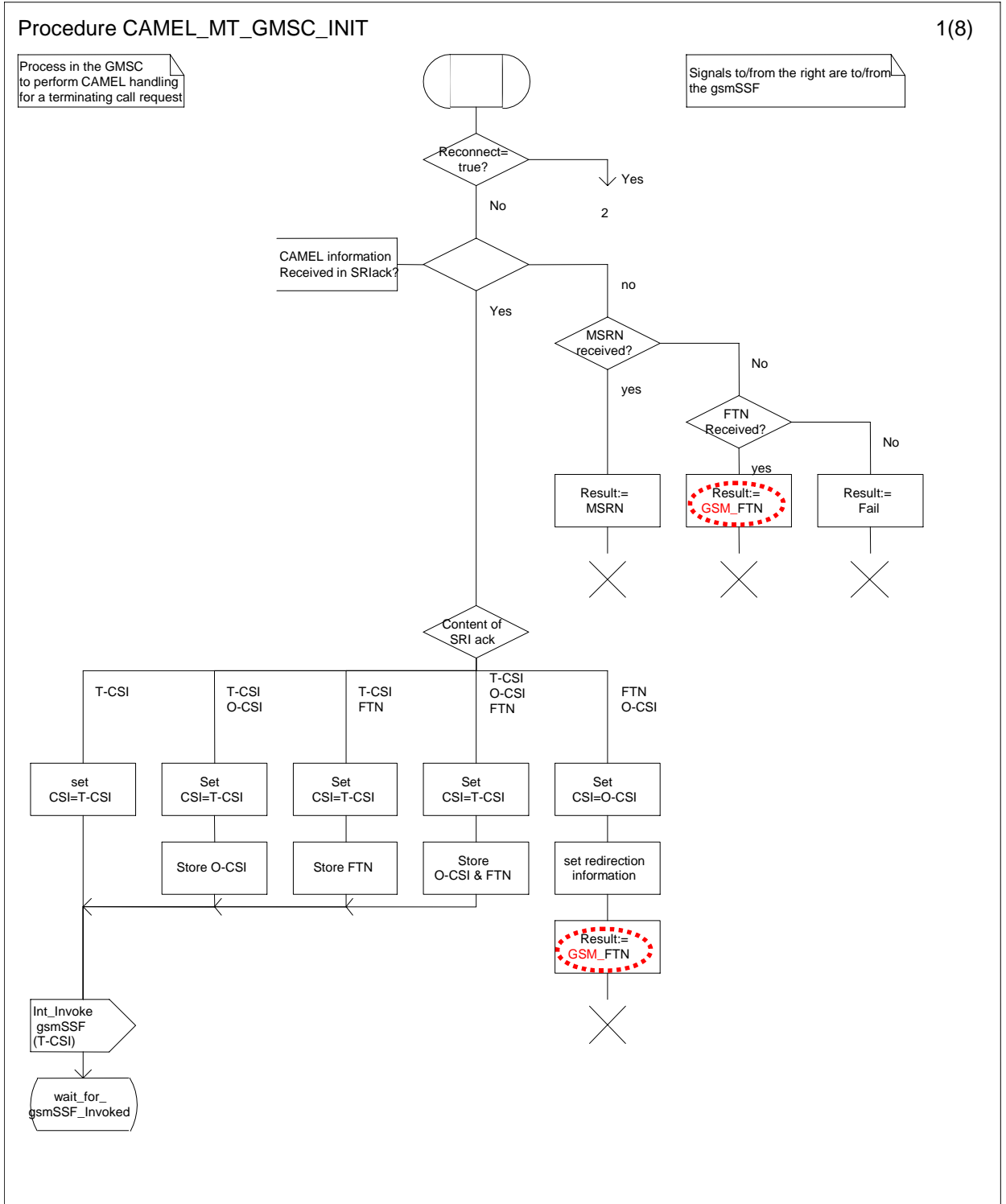


Figure 24a: Procedure CAMEL_MT_GMSC_INIT (sheet 1)

*** Next Modified Part ***

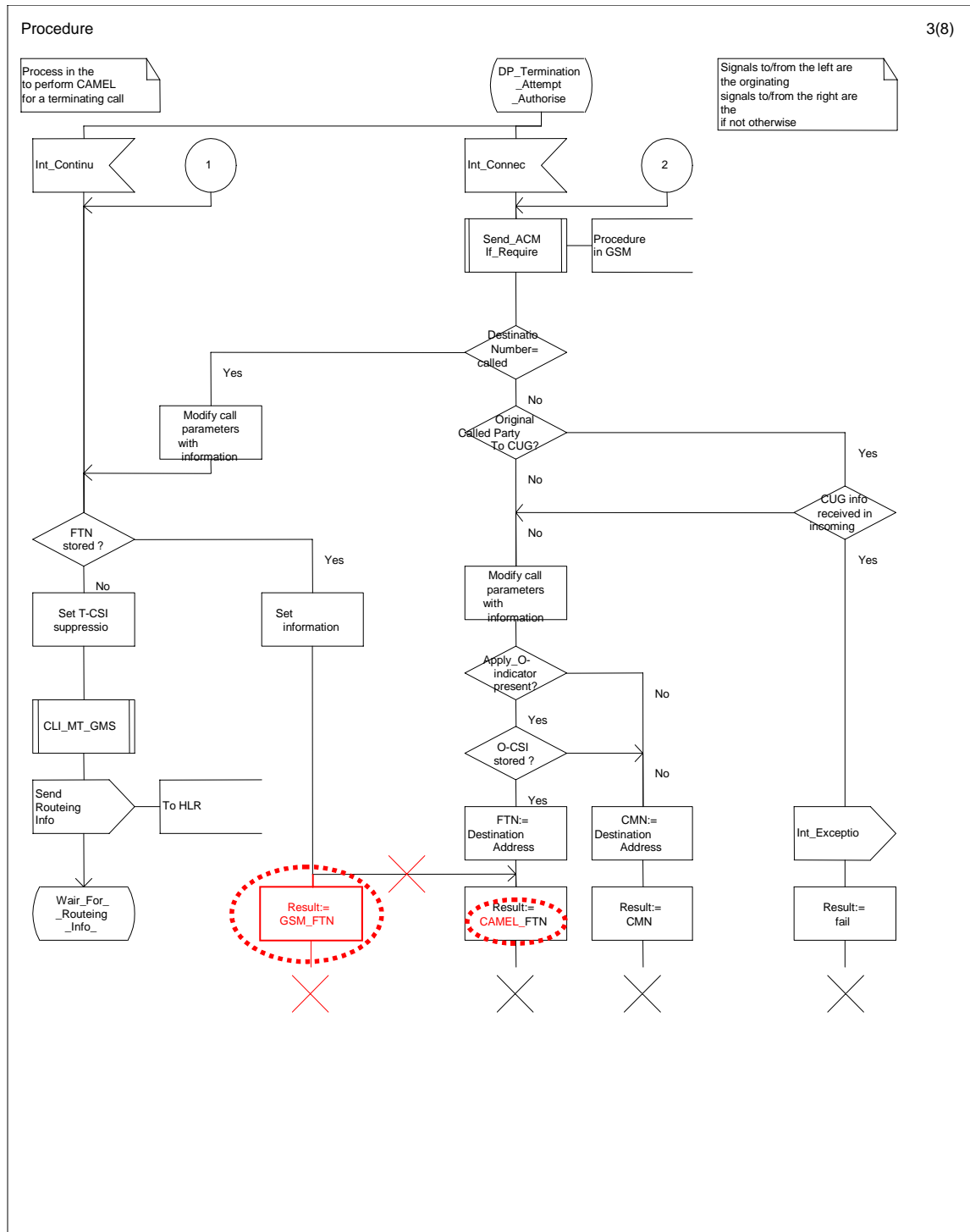


Figure 24c: Procedure CAMEL_MT_GMSC_INIT (sheet 3)

*** Next Modified Part ***

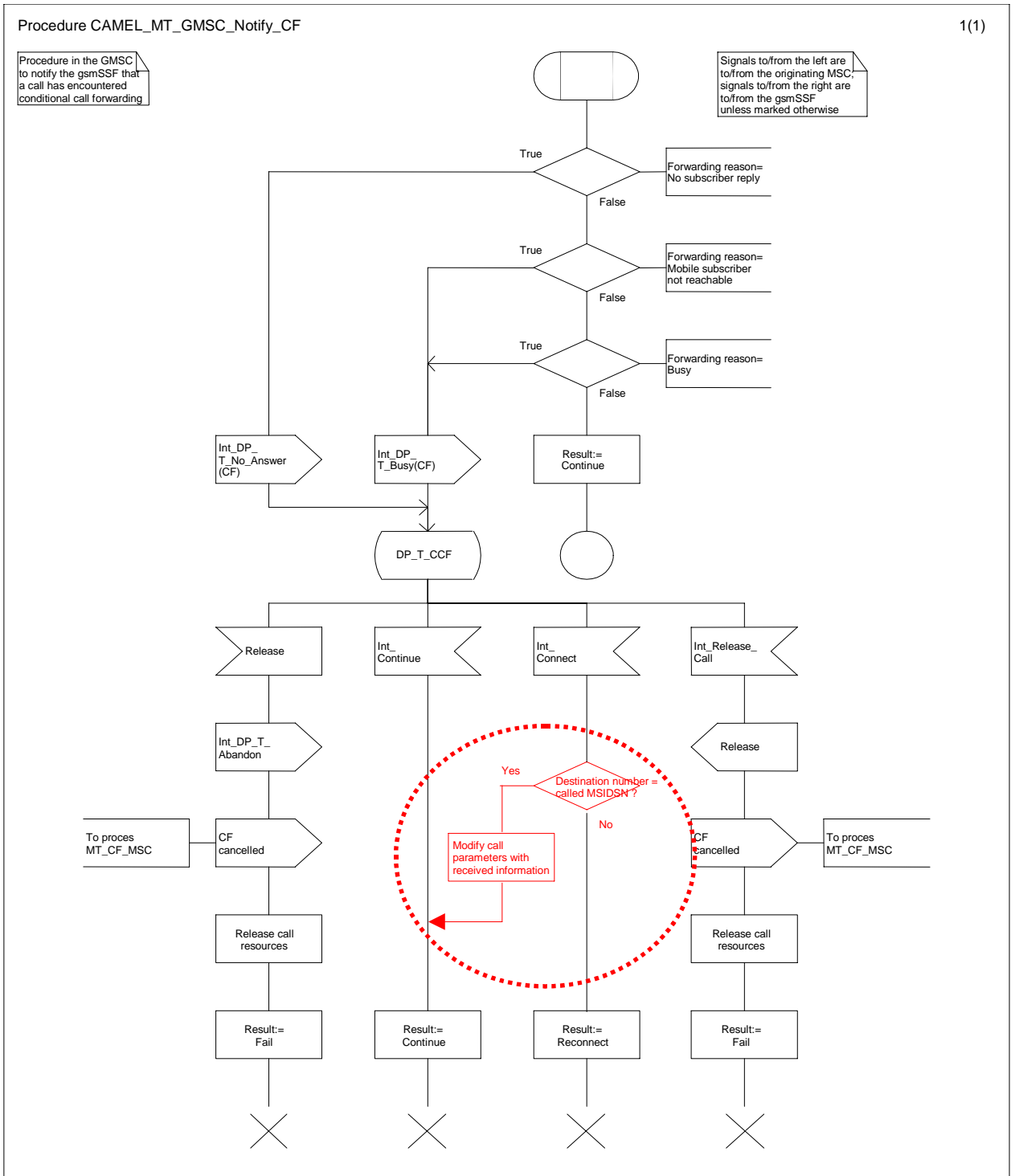


Figure 33a: Procedure CAMEL_MT_GMSC_Notify_CF (sheet 1)

<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
03.78	CR	A152r1
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: CN#7 <small>list expected approval meeting # here ↑</small>		Current Version: 7.2.0
for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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

Source: CN WG2 **Date:** 7 Feb 2000

Subject: Correction of CF Notification

Work item: CAMEL Phase 2

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input checked="" type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input checked="" type="checkbox"/> Release 99 <input type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: See next page for detail.

Clauses affected: _____

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input checked="" type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: _____ → List of CRs: 03.18-A058, 03.79-A025 → List of CRs: _____ → List of CRs: _____ → List of CRs: _____
------------------------------	--	---

Other comments: Assessment: Siemens sees the problem identified in this CR serious and the correction shall be essential for all the manufactures and the operators. Therefore, this CR should fall into the category 1 (C1) as classified at the CN#5 meeting, Kyongju.

Reason for change:

Problem - Endless loop in Obtain_Routing Address (GSM TS 03.18):

The first SRI and SRI ack are done in Obtain_Routing Address. Then CAMEL_MT_GMSC_INIT (GSM TS 03.78) is called.

1. If the terminating service logic sends CONTINUE in CAMEL_MT_GMSC_INIT, the second SRI is sent and SRI ack contains FTN and O-CSI if the subscriber is not reachable. This procedure provides the output as „FTN“.
2. Returning to procedure Obtain_Routing_Address, it calls the Procedure CAMEL_MT_GMSC_Notify_CF (GSM TS 03.78)
3. In CAMEL_MT_GMSC_Notify_CF, the terminating service logic is informed about CFNRc by EVENT REPORT BCSM.
4. The gsmSCF may answer with CONNECT.
5. The procedure CAMEL_MT_GMSC_Notify_CF delivers output "Reconnect".
6. Returning to Obtain_Routing Address, it calls the procedure CAMEL_MT_GMSC_INIT again.
7. The procedure CAMEL_MT_GMSC_INIT delivers again output 'FTN'.
8. The procedure Obtain_Routing_Address calls again procedure CAMEL_MT_GMSC_Notify_CF.

The CFNRc data are still stored therefore it starts from the beginning

Proposed Correction:

The proposal is to call procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) only for GSM-CF, i.e. gsmSCF shall not be notified about new Called Party Number being received from it in CONNECT.

Therefore a new outputs 'CAMEL_FTN' and 'GSM_FTN' are defined in Procedure CAMEL_MT_GMSC_INIT (in GSM TS 03.78). This is to be checked in procedure Obtain_Routing_Address (in GSM TS 03.18). If result = 'CAMEL_FTN' procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) shall not be called. CF process shall be started instead.

Correction on GSM TS 03.78

Further, a new check on Called Party Number is proposed in CAMEL_MT_GMSC_Notify_CF procedure. If the same number is delivered in CONNECT then CF process shall be started immediately, i.e. there shall be no Reconnect attempt.

Correction on GSM TS 03.79

Last issue is the interworking with OR – when terminating logic is informed about ORLCF and sends a new Called Party Number in CONNECT then the connection to VMSC shall be released and RESUME CALL HANDLING shall be sent.

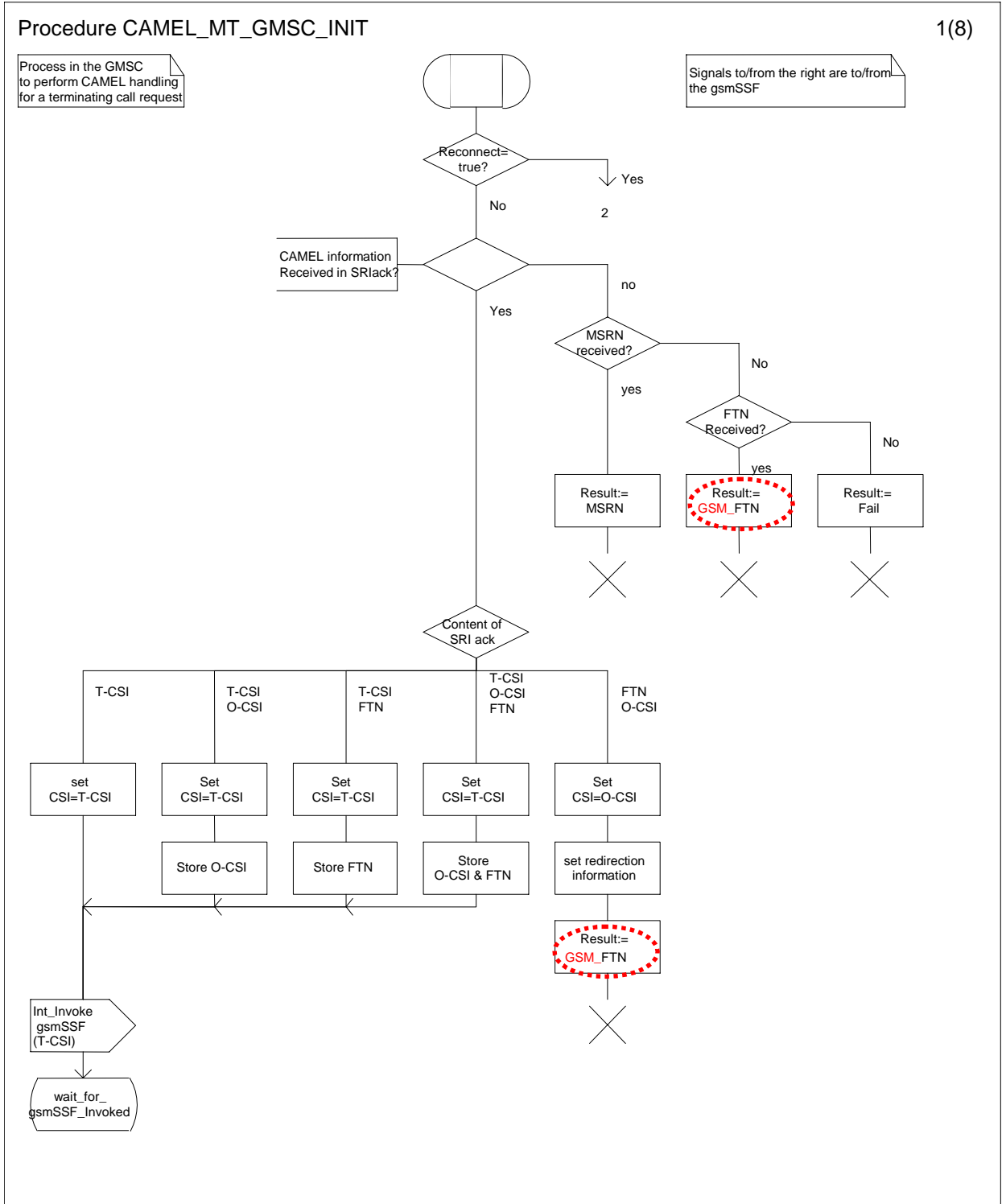


Figure 24a: Procedure CAMEL_MT_GMSC_INIT (sheet 1)

*** Next Modified Part ***

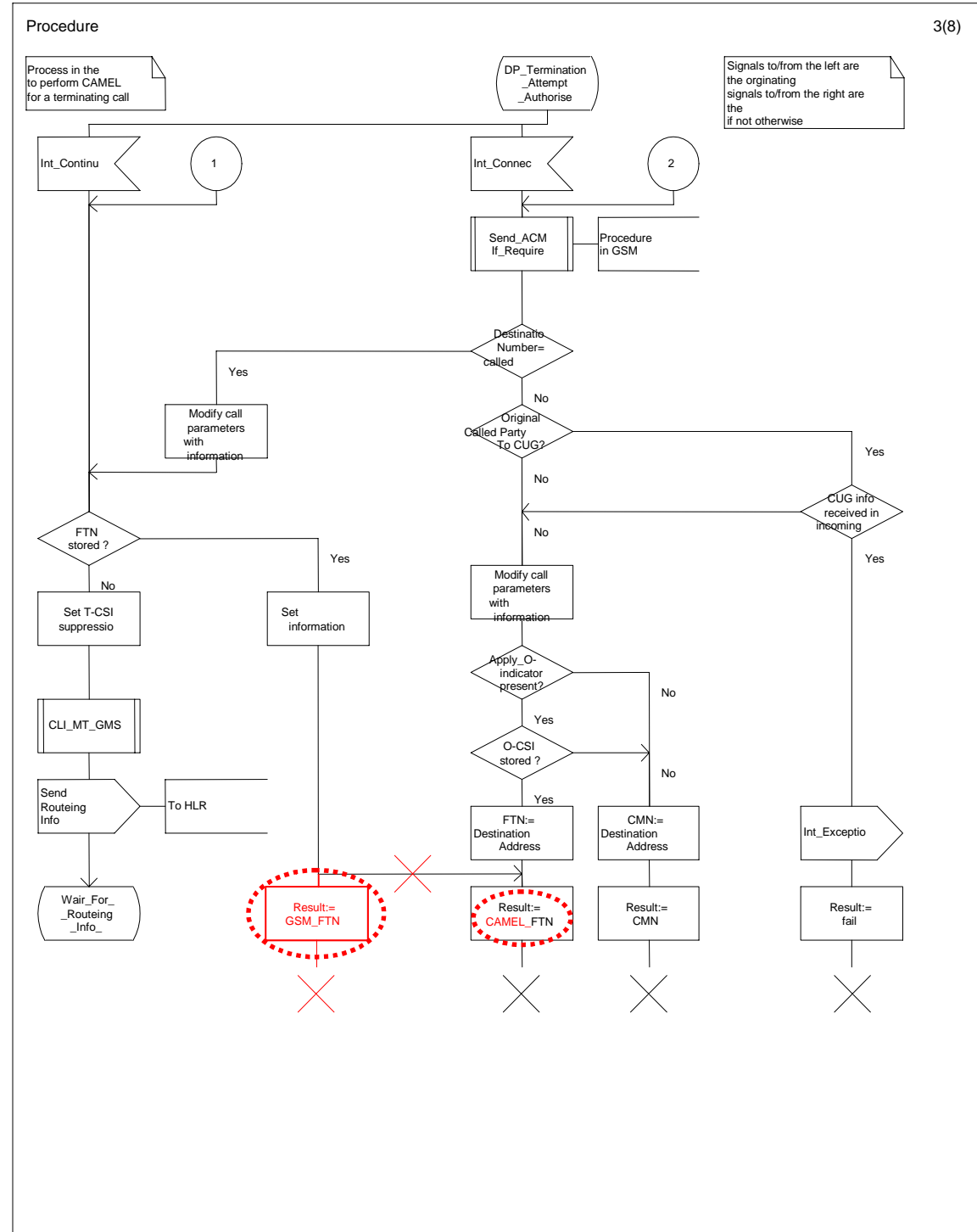


Figure 24c: Procedure CAMEL_MT_GMSC_INIT (sheet 3)

*** Next Modified Part ***

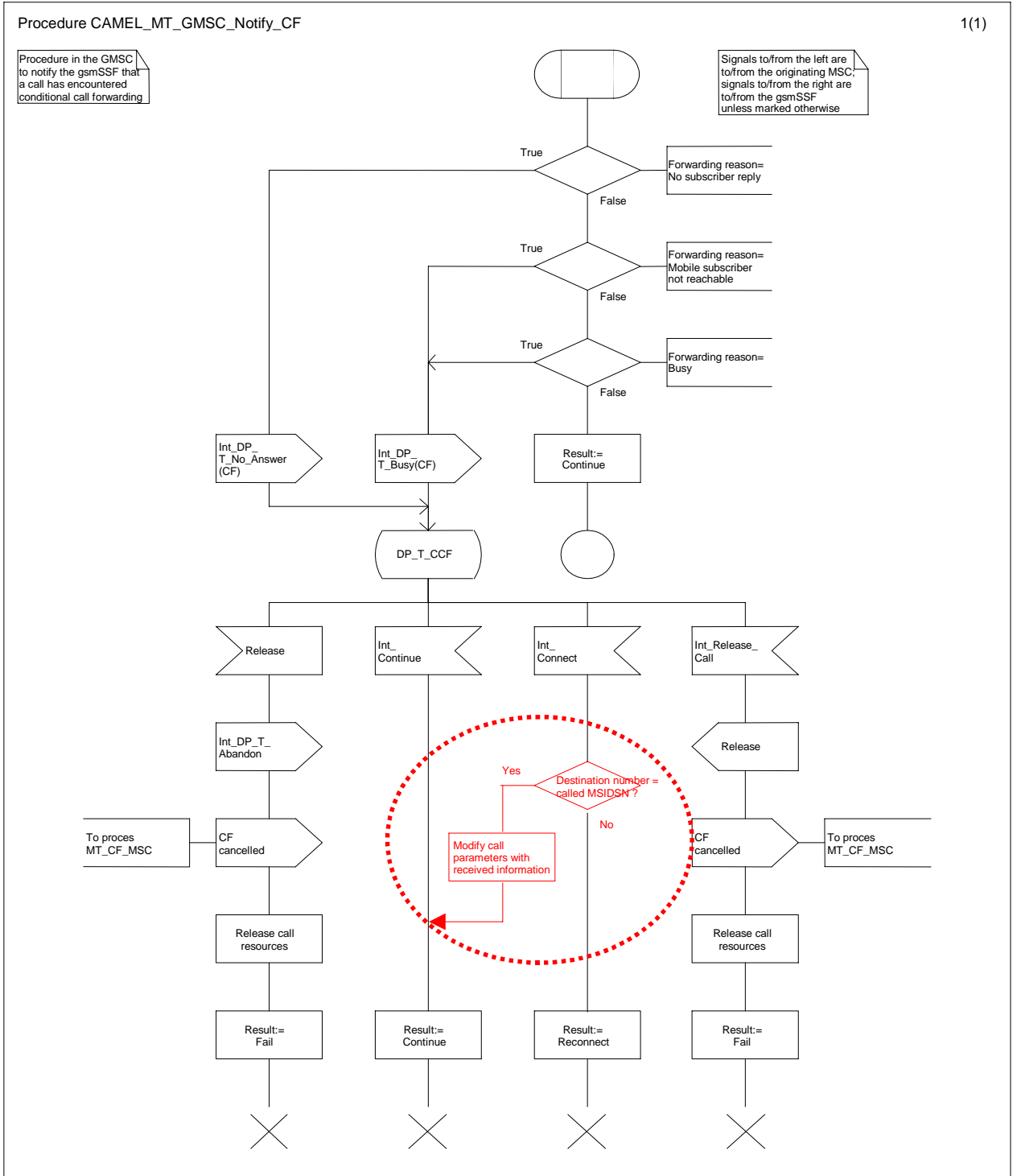


Figure 33a: Procedure CAMEL_MT_GMSC_Notify_CF (sheet 1)

CHANGE REQUEST

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

03.78 CR A153r1

Current Version: **6.5.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Source: CN WG2

Date: 17 Feb 2000

Subject: Correction on gsmSSF SDL; return to idle after ACR

Work item: CAMEL Phase 2

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

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:
Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

CR 03.78-A105 'Correction on gsmSSF SDL; return to idle after ACR' which was approved at SMG#29 was not correctly implemented. This CR is the correction for the current version.

Clauses affected:

Other specs affected:

Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	23.078-114r1 (R99)
Other GSM core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	03.78-A154r1 (R98)
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments:

According to NP-99361 which was approved at CN#5 meeting, this late CR falls into (C2) Corrections to incorrect implementation of earlier CRs or to the effect of two or more conflicting CRs

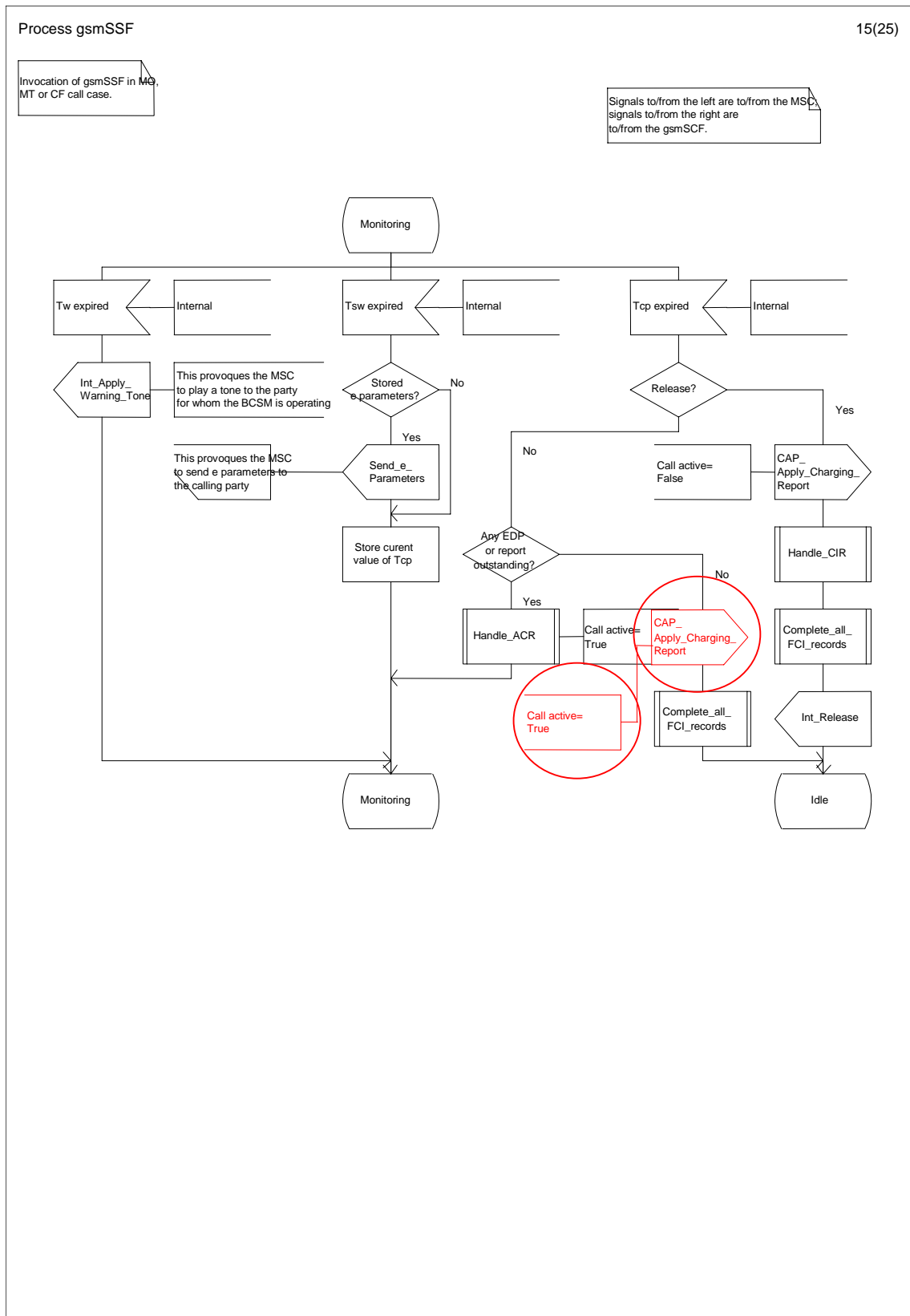


Figure 45n: Process gsmSSF (sheet 15)

CHANGE REQUEST

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

03.78 CR A154r1

Current Version: **7.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Source: CN WG2 **Date:** 17 Feb 2000

Subject: Correction on gsmSSF SDL; return to idle after ACR

Work item: CAMEL Phase 2

Category: F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification
(only one category shall be marked with an X)

Release: Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change: CR 03.78-A105 'Correction on gsmSSF SDL; return to idle after ACR' which was approved at SMG#29 was not correctly implemented. This CR is the correction for the current version.

Clauses affected:

Other specs affected: Other 3G core specifications → List of CRs: 23.078-114r1 (R99)
Other GSM core specifications → List of CRs: 03.78-A153r1 (R97)
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments: According to NP-99361 which was approved at CN#5 meeting, this late CR falls into (C2) Corrections to incorrect implementation of earlier CRs or to the effect of two or more conflicting CRs

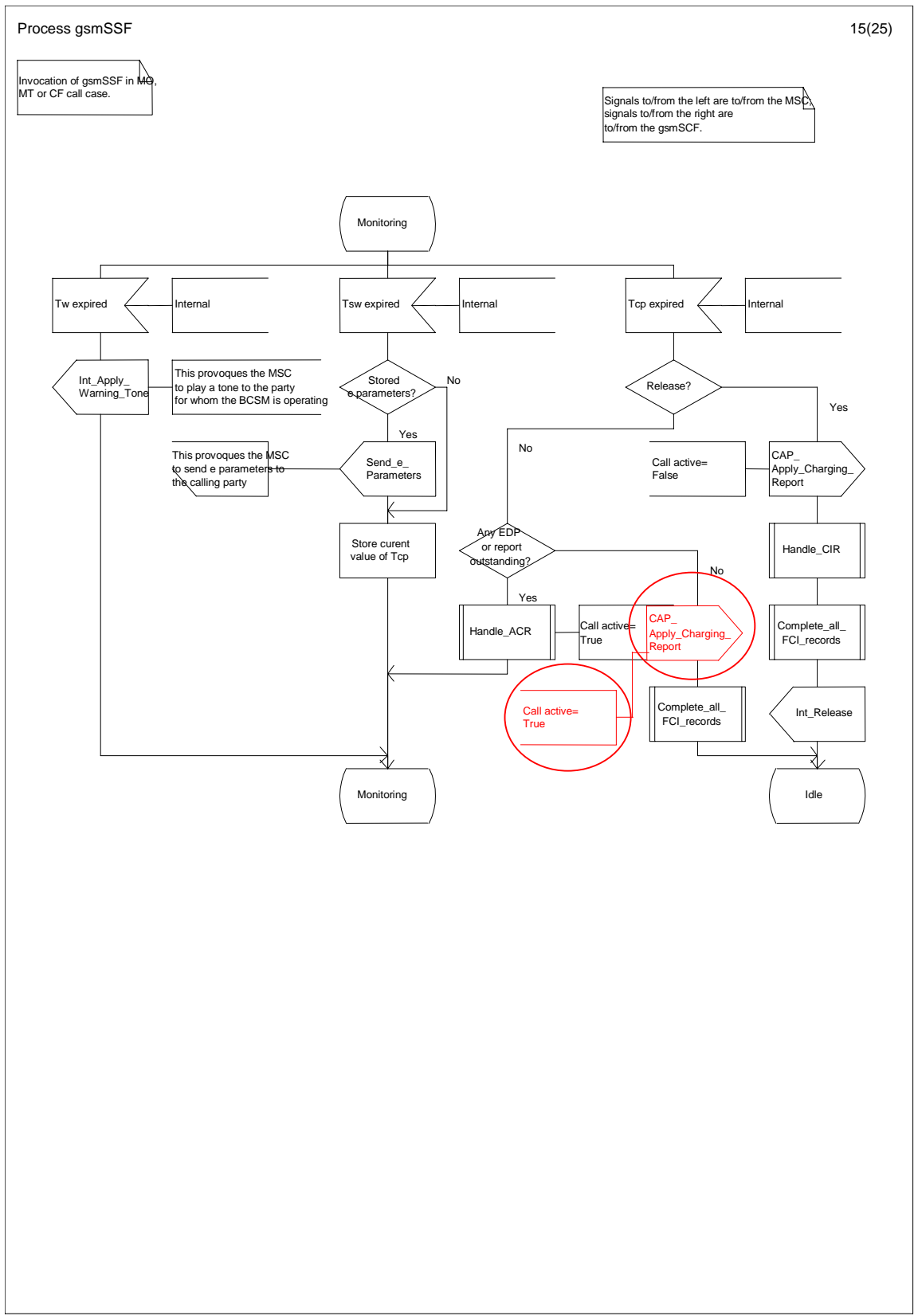


Figure 45n: Process gsmSSF (sheet 15)

Error! No text of specified style in document.

3

Error! No text of specified style in document.

CHANGE REQUEST

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

23.078 CR 091r1

Current Version: **3.3.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Source: CN WG2

Date: 7 Feb 2000

Subject: Correction of CF Notification

Work item: CAMEL Phase 2

Category:
(only one category shall be marked with an X)
F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:
Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change: See next page for detail.

Clauses affected:

Other specs affected:
Other 3G core specifications → List of CRs: 23.018-037, 23.079-009
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:

Other comments:

Reason for change:

Problem - Endless loop in Obtain_Routing Address (GSM TS 03.18):

The first SRI and SRI ack are done in Obtain_Routing Address. Then CAMEL_MT_GMSC_INIT (GSM TS 03.78) is called.

1. If the terminating service logic sends CONTINUE in CAMEL_MT_GMSC_INIT, the second SRI is sent and SRI ack contains FTN and O-CSI if the subscriber is not reachable. This procedure provides the output as „FTN“.
2. Returning to procedure Obtain_Routing_Address, it calls the Procedure CAMEL_MT_GMSC_Notify_CF (GSM TS 03.78)
3. In CAMEL_MT_GMSC_Notify_CF, the terminating service logic is informed about CFNRc by EVENT REPORT BCSM.
4. The gsmSCF may answer with CONNECT.
5. The procedure CAMEL_MT_GMSC_Notify_CF delivers output "Reconnect".
6. Returning to Obtain_Routing Address, it calls the procedure CAMEL_MT_GMSC_INIT again.
7. The procedure CAMEL_MT_GMSC_INIT delivers again output 'FTN'.
8. The procedure Obtain_Routing_Address calls again procedure CAMEL_MT_GMSC_Notify_CF.

The CFNRc data are still stored therefore it starts from the beginning

Proposed Correction:

The proposal is to call procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) only for GSM-CF, i.e. gsmSCF shall not be notified about new Called Party Number being received from it in CONNECT.

Therefore a new outputs 'CAMEL_FTN' and 'GSM_FTN' are defined in Procedure CAMEL_MT_GMSC_INIT (in GSM TS 03.78). This is to be checked in procedure Obtain_Routing_Address (in GSM TS 03.18). If result = 'CAMEL_FTN' procedure CAMEL_MT_GMSC_Notify_CF (in GSM TS 03.78) shall not be called. CF process shall be started instead.

Correction on GSM TS 03.78

Further, a new check on Called Party Number is proposed in CAMEL_MT_GMSC_Notify_CF procedure. If the same number is delivered in CONNECT then CF process shall be started immediately, i.e. there shall be no Reconnect attempt.

Correction on GSM TS 03.79

Last issue is the interworking with OR – when terminating logic is informed about ORLCF and sends a new Called Party Number in CONNECT then the connection to VMSC shall be released and RESUME CALL HANDLING shall be sent.

*** First Modified Part ***

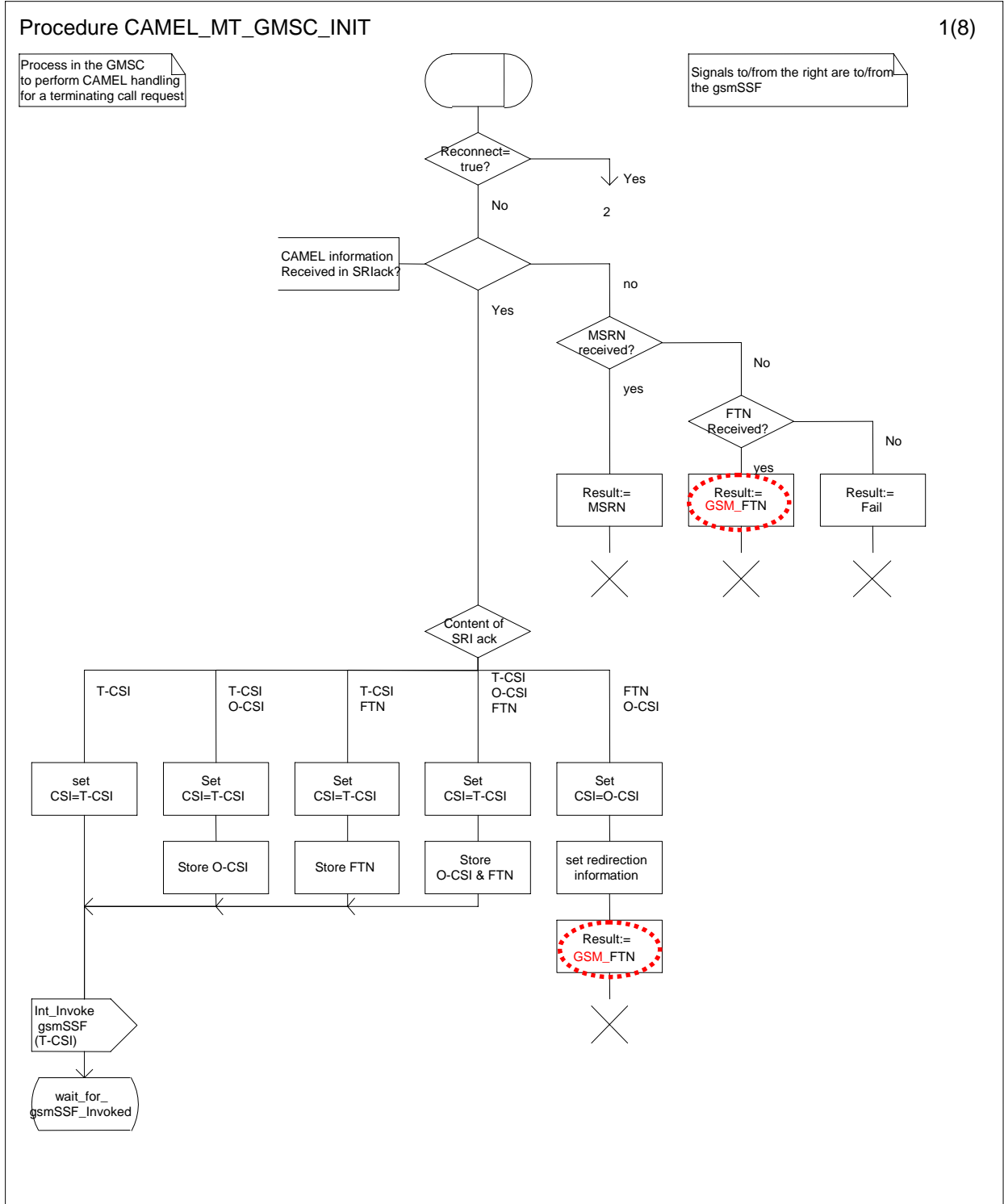


Figure 4.27a: Procedure CAMEL_MT_GMSC_INIT (sheet 1)

*** Next Modified Part ***

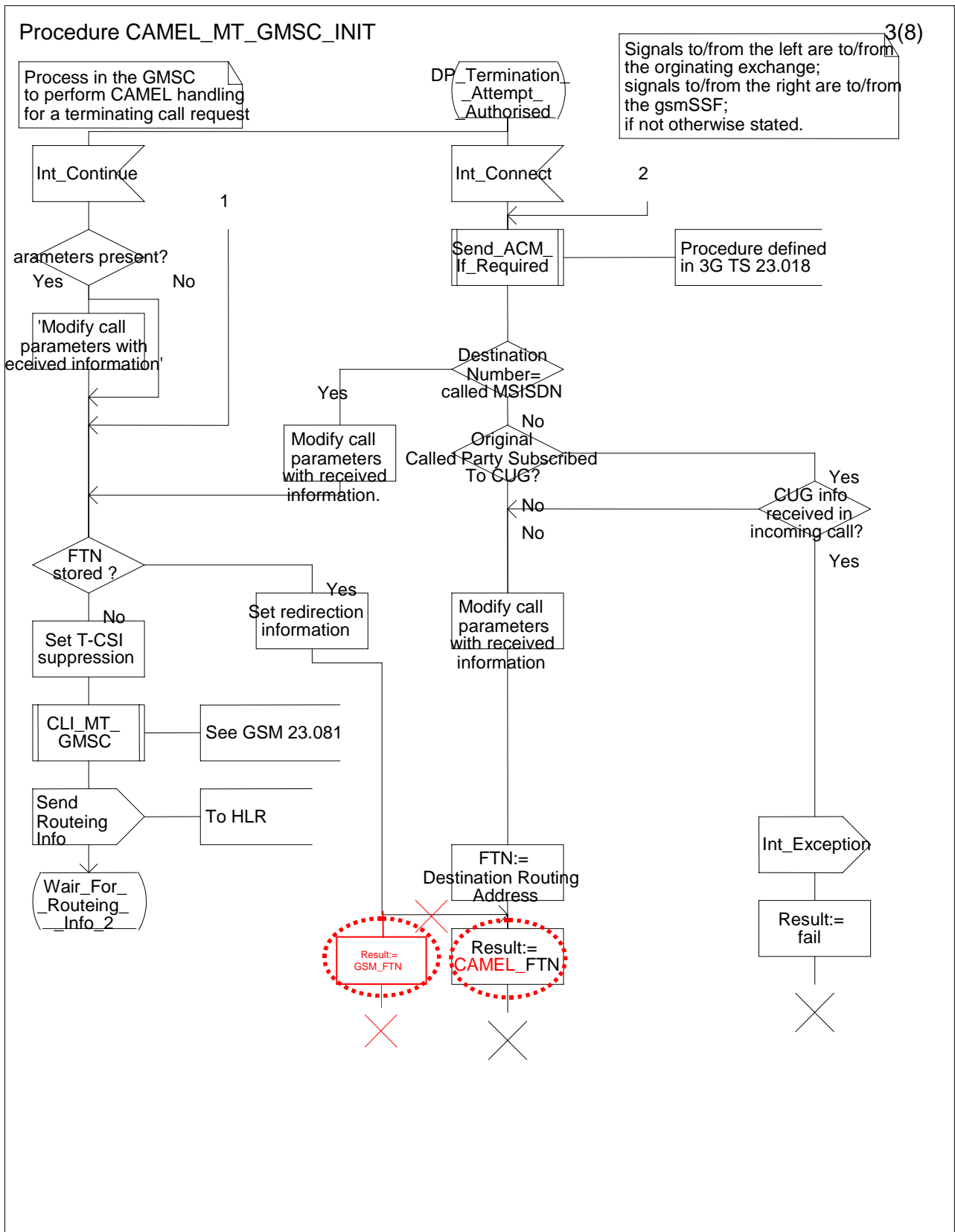


Figure 4.27c: Procedure CAMEL_MT_GMSC_INIT (sheet 3)

*** Next Modified Part ***

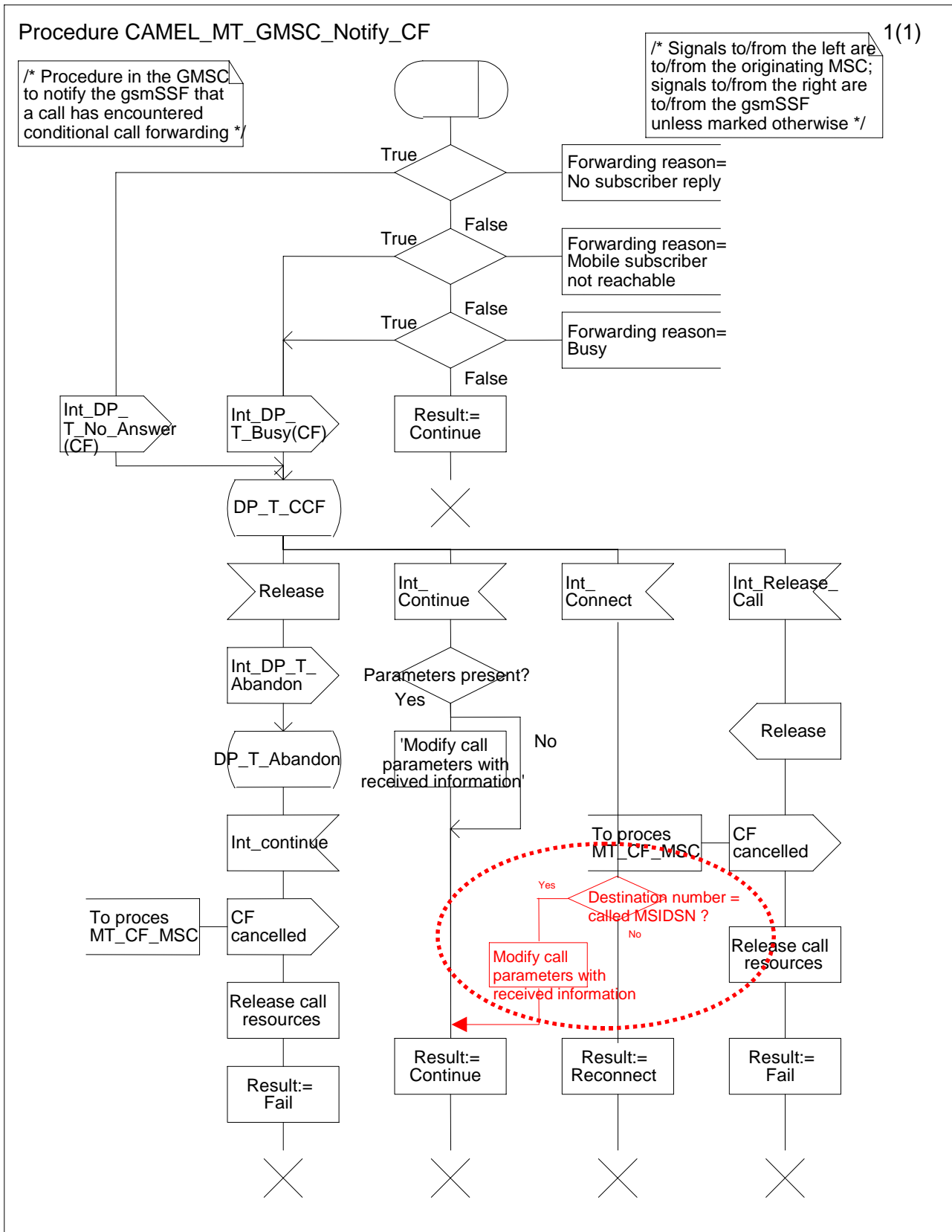


Figure 4.36: Procedure CAMEL_MT_GMSC_Notify_CF (sheet 1)

CHANGE REQUEST

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

23.078 CR 114r1

Current Version: **3.3.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **CN#7**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Source: CN WG2

Date: 17 Feb 2000

Subject: Correction on gsmSSF SDL; return to idle after ACR

Work item: CAMEL Phase 2

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:

Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

CR 03.78-A105 'Correction on gsmSSF SDL; return to idle after ACR' which was approved at SMG#29 was not correctly implemented. This CR is the correction for the current version.

Clauses affected:

Other specs affected:

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
Other GSM core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	03.78-A153r1 (R97), 03.78-A154r1 (R98)
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments:

According to NP-99361 which was approved at CN#5 meeting, this late CR falls into (C2) Corrections to incorrect implementation of earlier CRs or to the effect of two or more conflicting CRs

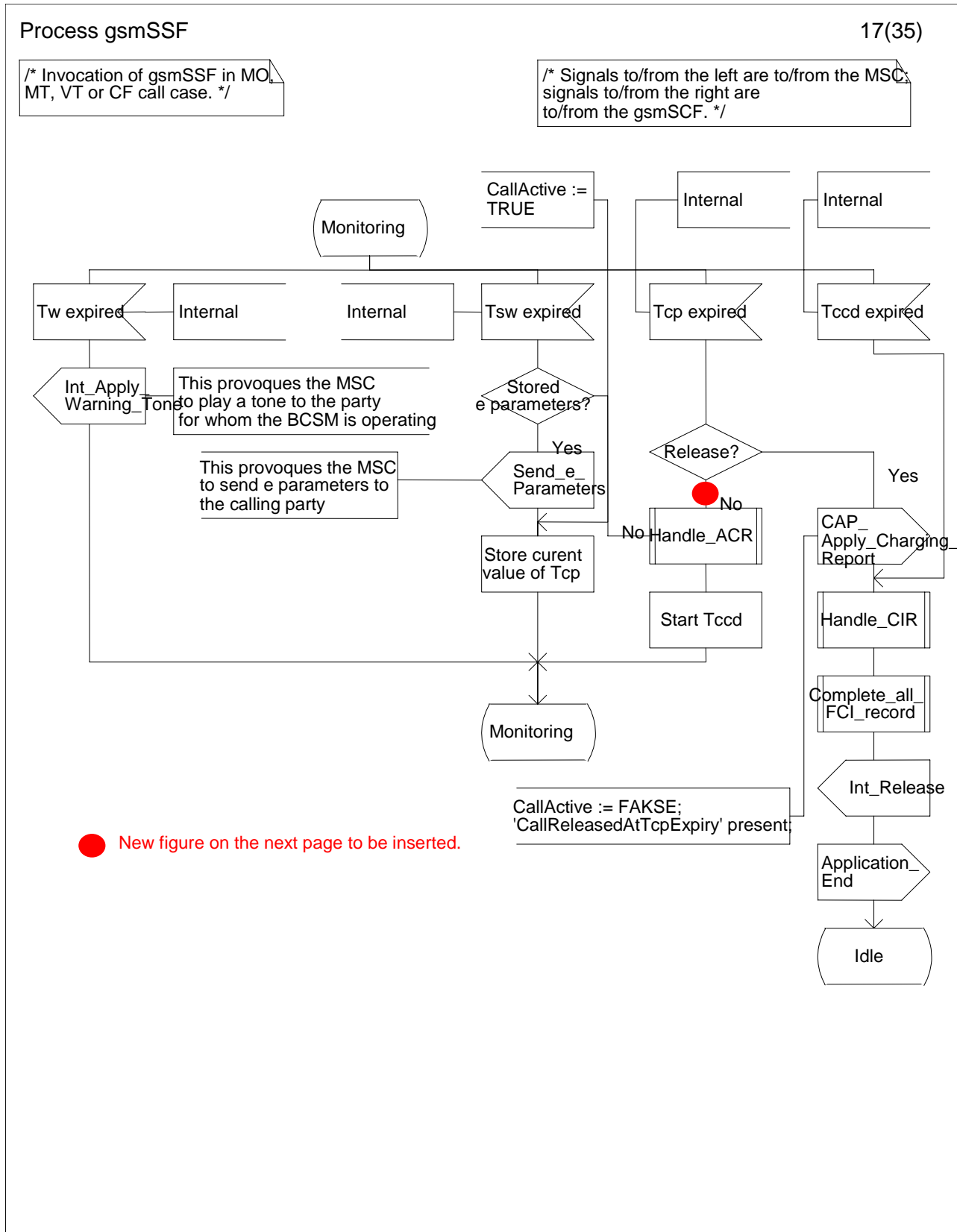


Figure 4.57q: Process gsmSSF (sheet 17)

