3GPP TSG_CN **Tdoc NP-000521**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Source: **TSG_N WG 5**

Title: **CRs to R99 Work Item OSA - corrections to 29.998**

Agenda item: **8.23.5**

Document for: **APPROVAL**

Introduction:

This document contains 3 CRs on R99 Work Item **OSA** that has been agreed by TSG_N WG5, and is forwarded to TSG_N Plenary meeting #9 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C	Ver_N
29.998	001	2	N5-000124	R99	Mapping of CallNotification interupted CallNotification continue methods.	F	3.0.0	3.1.0
29.998	002		N5-000116	R99	CallEnd methods Mapping correction	F	3.0.0	3.1.0
29.998	003		N5-000149	R99	Mapping of userInteractionNotificationInterrupted and userInteractionNotificationContinued methods	F	3.0.0	3.1.0

3GPP CN WG5 Meeting #4
Retz, Austria, 10-11 2000

***Document* N5-000124**

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

CHANGE REQUEST

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29.998 **CR** **001R2** Current Version: 3.0.0

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

For submission to: CN#9 for approval ☒ strategic □ *(for SMG use only)*
list expected approval meeting # here ↑ for information □ non-strategic □

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: N5 **Date:** 10th July 2000

Subject: Mapping of callNotificationInterrupted and callNotificationContinued methods

Work item: OSA

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: callNotificationInterrupted & callNotificationContinued: Interruption means all notifications thus it is not appropriate to monitor only single subscribers CSI statuses. Thus there should be no mapping to MAP or CAP operations. The corresponding changes are proposed also for the data session part.

Clauses affected: 6.1.7, 6.1.8, 13.1.5, 13.1.6

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:

Other comments:

help.doc

<---------- double-click here for help and instructions on how to create a CR.

6.1.7 callNotificationInterrupted

callNotificationInterrupted indicates to the application that all event notifications have been interrupted, for example due to faults detected.

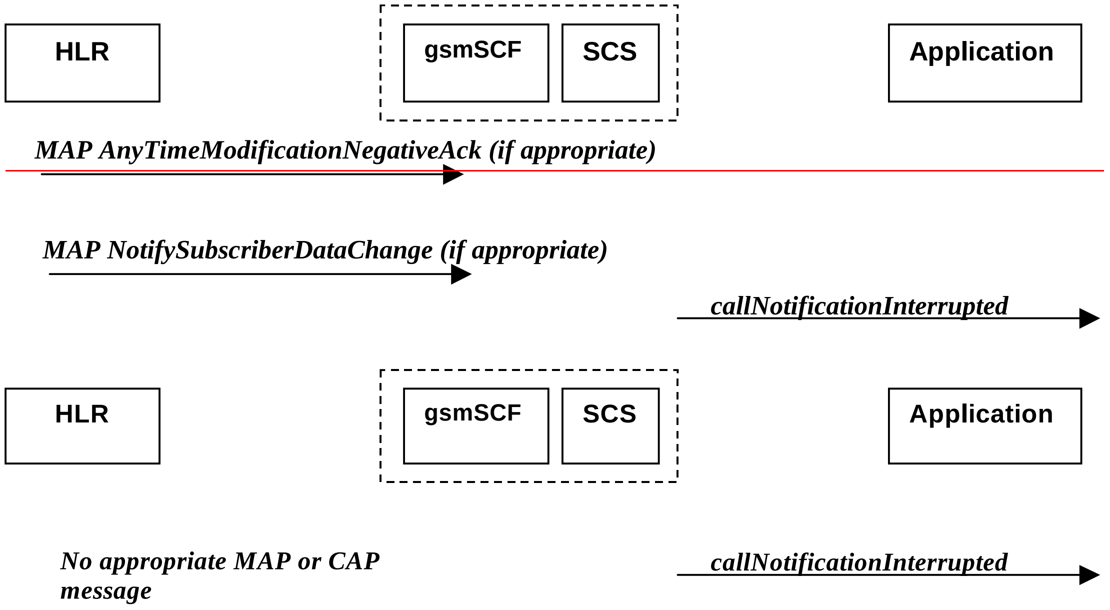
HLR
gsmSCF
SCS
Application
MAP AnyTimeModificationNegativeAck (if appropriate)
MAP NotifySubscriberDataChange (if appropriate)
callNotificationInterrupted
HLR
gsmSCF
SCS
Application
No appropriate MAP or CAP message
callNotificationInterrupted

Figure 6-5: Call Flow for callNotificationInterrupted

Normal Operation

~~Two alternatives have been identified~~

~~1 Error detected in SCS or gsmSCF~~

Pre-conditions	Call notifications have been enabled using the ***enableNotification*** method on the Call Manager interface
1	The SCS has detected, or has been informed of, a fault which prevents further events from being notified
2	The SCS invokes the ***callNotificationInterrupted*** method

~~2 HLR notifies the gsmSCF a deactivation of the CSI~~

~~Pre-conditions~~	~~Call notifications have been enabled using the ***enableNotification*** method on the Call Manager interface~~
~~1~~	~~The HLR sends a MAP ***NotifySubscriberDataChange*** indicating that a CSI for a subscriber has been deactivated. The gsmSCF detects that all call related CSIs for that subscriber have been deactivated and sends an internal message to the SCS to this effect~~
~~2~~	~~The SCS receives an indication that all call related CSI have been deactivated and invokes the ***callNotificationInterrupted*** method~~

Parameter Mapping

None.

6.1.8 callNotificationContinued

callNotificationContinued indicates to the application that all event notifications have been previously interrupted, have now started again.

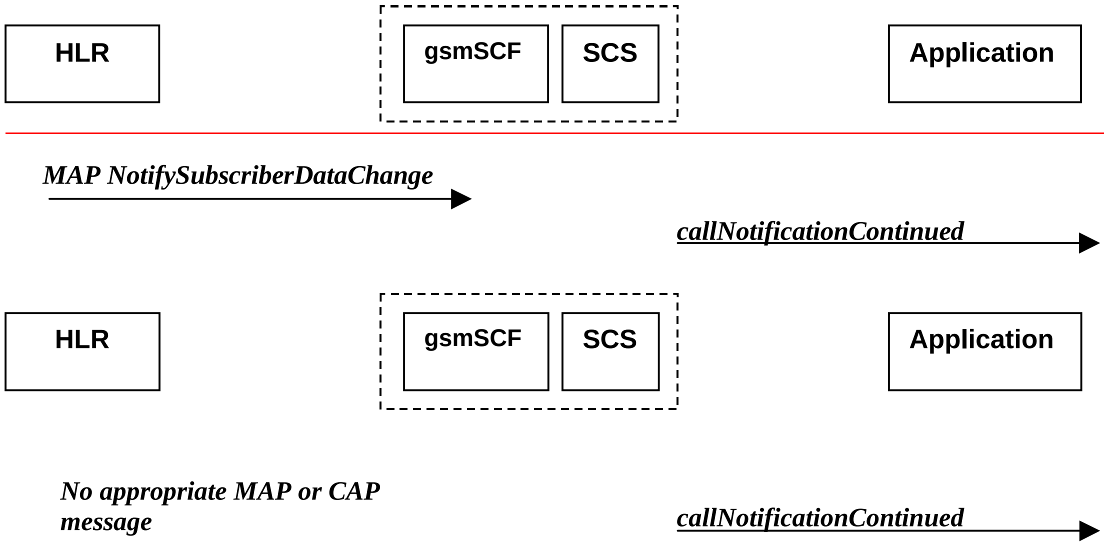
HLR
gsmSCF
SCS
Application
MAP NotifySubscriberDataChange
callNotificationContinued
HLR
gsmSCF
SCS
Application
No appropriate MAP or CAP message
callNotificationContinued

Figure 6-6: Call Flow for callNotificationContinued

Normal Operation

Pre-conditions	Call notifications have been ~~enabled using the *enableNotification*~~ ***interrupted and callNotificationInterrupted method has been invoked.***
1	~~The HLR sends a MAP ***NotifySubscriberDataChange*** indicating that a CSI for a subscriber has been changed. The gsmSCF detects that CSIs for that subscriber have been changed and sends an internal message to the SCS to this effect~~The SCS detects that call notifications are again possible.
2	The SCS ~~receives an indication that data session related CSI have been changed and~~ invokes the ***callNotificationContinued*** method

Parameter Mapping

13.1.5 dataSessionNotificationInterrupted

dataSessionlNotificationInterrupted indicates to the application that event notifications will no longer be sent (for example, due to faults detected).

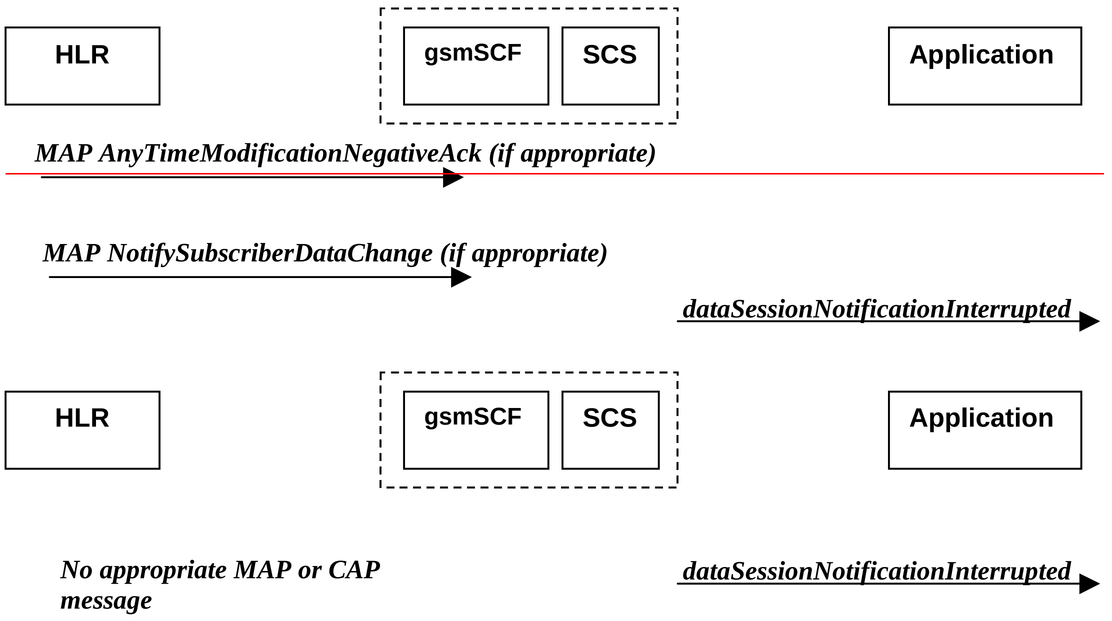
HLR
gsmSCF
SCS
Application
MAP AnyTimeModificationNegativeAck (if appropriate)
MAP NotifySubscriberDataChange (if appropriate)
dataSessionNotificationInterrupted
HLR
gsmSCF
SCS
Application
No appropriate MAP or CAP message
dataSessionNotificationInterrupted

Figure 13-5: Call Flow for dataSessionNotification~~Termina~~Interrupted

Normal Operation

~~Two alternatives have been identified~~

~~1 Error detected in SCS or gsmSCF~~

Pre-conditions	Data session notifications have been enabled using the ***enableNotification*** method on the Data Session Manager interface
1	The SCS has detected, or has been informed of, a fault which prevents further events from being notified
2	The SCS invokes the ***dataSessionNotificationInterrupted*** method

~~2 HLR notifies the gsmSCF a deactivation of the CSI~~

~~Pre-conditions~~	~~Data session notifications have been enabled using the **_enableNotification_** method on the Data Session Manager interface~~
~~1~~	~~The HLR sends a MAP **_NotifySubscriberDataChange_** indicating that a CSI for a subscriber has been deactivated. The gsmSCF detects that all call related CSIs for that subscriber have been deactivated and sends an internal message to the SCS to this effect~~
~~2~~	~~The SCS receives an indication that all data session related CSI have been deactivated and invokes the **_dataSessionNotificationInterrupted_** method~~

Parameter Mapping

None.

13.1.6 dataSessionNotificationContinued

dataSessionNotificationContinued indicates to the application that all event notifications will be sent again.

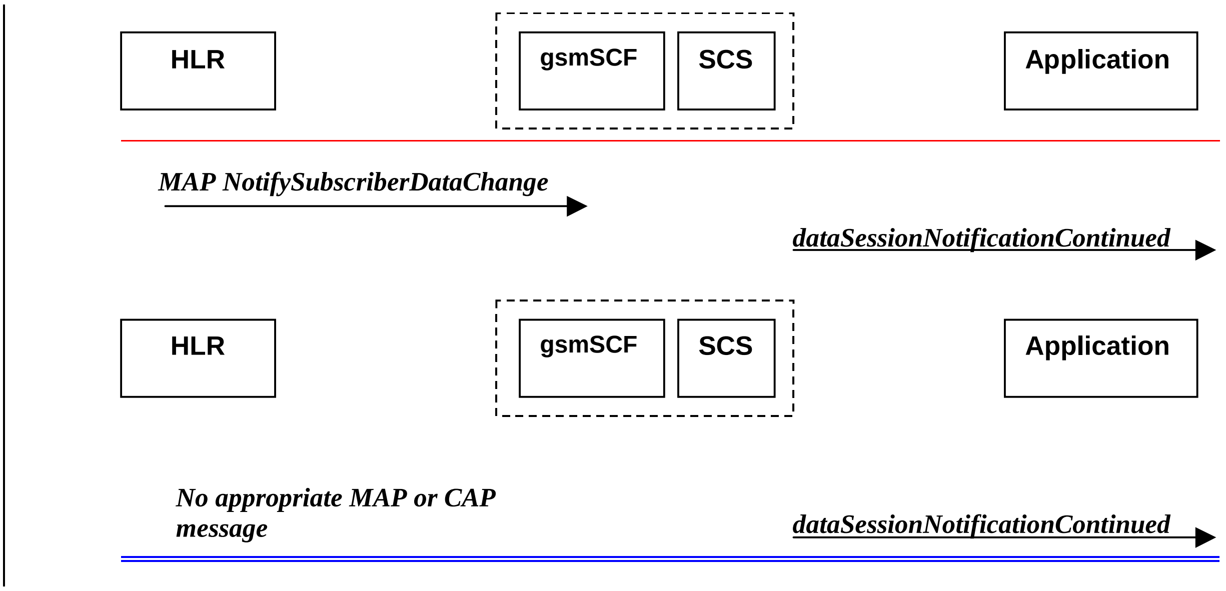
HLR
gsmSCF
SCS
Application
MAP NotifySubscriberDataChange
dataSessionNotificationContinued
HLR
gsmSCF
SCS
Application
No appropriate MAP or CAP message
dataSessionNotificationContinued

Figure 13-6: Call Flow for dataSessionNotificationContinued

Normal Operation

Pre-conditions	Data session~~Call~~ notifications have been ~~enabled using the **_enableNotification_** method on the Data Session Manager interface~~***interrupted and dataSessionNotificationInterrupted method has been invoked.***
1	~~The HLR sends a MAP **_NotifySubscriberDataChange_** indicating that a CSI for a subscriber has been changed. The gsmSCF detects that data session related CSIs for that subscriber have been changed and sends an internal message to the SCS to this effect~~The SCS detects that data session notifications are again possible.
2	The SCS ~~receives an indication that data session related CSI have been changed and~~ invokes the ***dataSessionNotificationContinued*** method

Parameter Mapping

None.

3GPP CN WG5 Meeting #4
Retz, Austria, 10-11 2000

***Document* N5-000116**
e.g. for 3GPP use the format TP-99xxx
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CHANGE REQUEST

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29.998 CR 002 Current Version: 3.0.0

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

For submission to: CN#9
list expected approval meeting # here
↑

for approval	☒	strategic	□	*(for SMG*
for information	□	non-strategic	□	*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: N5 **Date:** 10th July 2000

Subject: callEnded method mapping correction

Work item: OSA

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: callEnded indicates disconnection from a call party. Thus it should be mapped to CAP eventReportBCSM as the normal operation.

Clauses affected: 6.2.14

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:

Other comments:

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6.2.14 callEnded

callEnded will be invoked when the call has ended. Furthermore, the operation contains an indication on the reason why the call has been ended. Also the operation will always be invoked when the call has ended and not only when the application has requested its interest in this event.

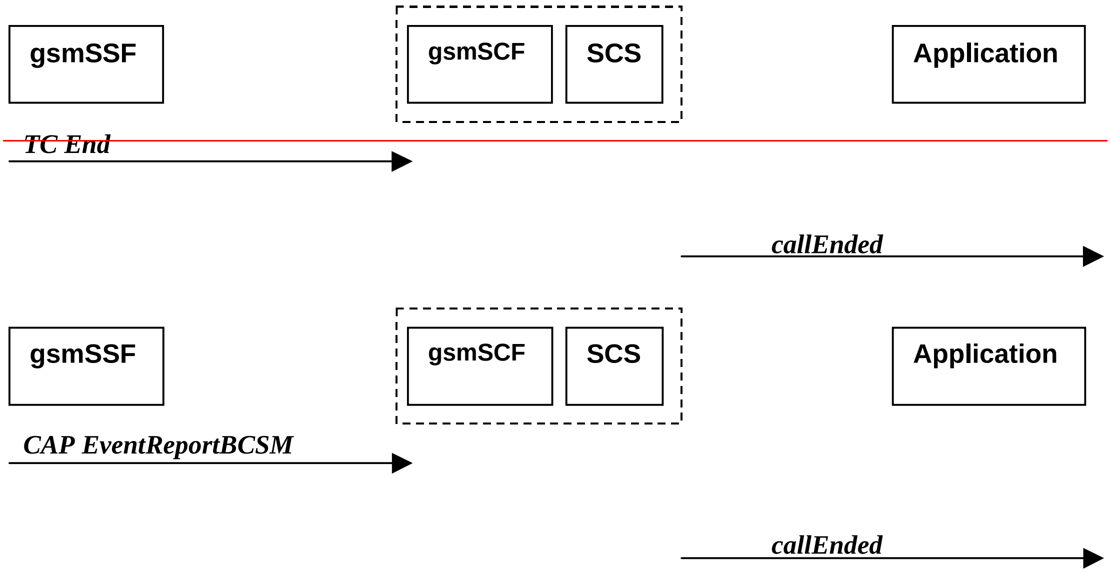

Figure 6-23: Call Flow for callEnded

Normal Operation

Pre-conditions	There ~~call has ended.~~ is an application monitoring the call in some way.
1	The gsmSSF detects a release from the calling or called party leg. CAP eventReportBCSM is sent if requested by the gsmSCF.~~call ended and sends a TCAP End message to the gsmSCF~~ The BCSM event indicated may be either abandon or disconnect depending on the phase of the call.
2	The gsmSCF sends an equivalent message to the SCS
3	The SCS invokes the ***callEnded*** method.

Parameter Mapping

From: ***~~TCAP End~~CAP EventReportBCSM***	To: ***callEnded***
	callSessionID
eventTypeBCSM	
	report ~~(TpCallEndedReport)~~**:**
legID	**callLegSessionID**
eventSpecificInformationBCSM: **releaseCause**	**cause**
miscCallInfo	

3GPP CN WG5 Meeting #5
Bristol, UK, 5-7 September 2000

Document N5-000149
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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29.998 **CR** **003** Current Version: 3.0.0

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

For submission to: CN#9
list expected approval meeting # here ↑

for approval	☒	strategic	□	*(for SMG use only)*
for information	□	non-strategic	□	

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: N5

Date: 1st September 2000

Subject: Mapping of userInteractionNotificationInterrupted and userInteractionNotificationContinued methods

Work item: OSA

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	□		Release 99	☒
				Release 00	□

Reason for change: There was previously no description of the mapping of these methods. The mapping proposed here resembles the one agreed for call control and data session in N5-000124.

Clauses affected: 7.1

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:	

Other comments:

help.doc

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7.1.7 userInteractionNotificationInterrupted

userInteractionNotificationInterrupted is a method that indicates to the application that all user interaction event notifications have been temporarily interrupted.

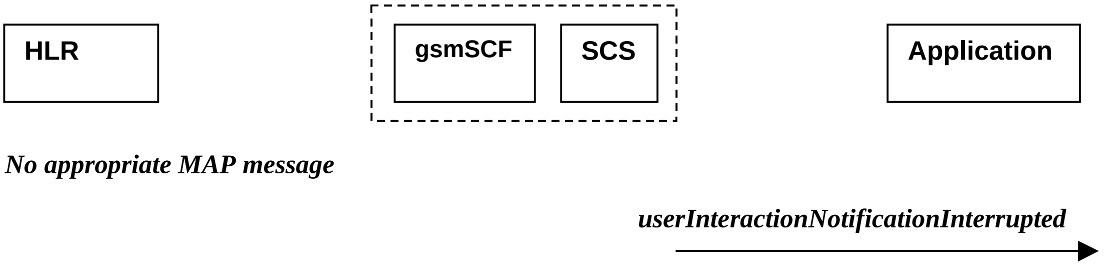
HLR
gsmSCF
SCS
Application
No appropriate MAP message
userInteractionNotificationInterrupted

Figure 7-8: Call Flow for userInteractionNotificationInterrupted

Normal Operation

Pre-conditions	User interaction event notifications have been enabled using the ***enableUINotification*** method on the UIManager interface
1	The SCS has detected, or has been informed of, a fault which prevents further user interaction events from being notified
2	The SCS invokes the ***userInteractionNotificationInterrupted*** method

Parameter Mapping

None.

7.1.8 userInteractionNotificationContinued

userInteractionNotificationContinued is a method that indicates to the application that user interaction event notifications will again be possible.

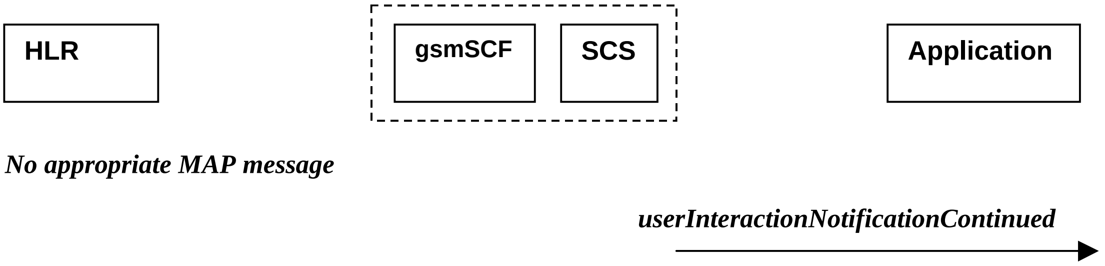
HLR
gsmSCF
SCS
Application
No appropriate MAP message
userInteractionNotificationContinued

Figure 7-9: Call Flow for userInteractionNotificationContinued

Normal Operation

Pre-conditions	User interaction event notifications have been interrupted and ***userInteractionNotificationInterrupted*** method has been invoked.

1	The SCS detects that user interaction event notifications are again possible.
2	The SCS invokes the ***userInteractionNotificationContinued*** method.

Parameter Mapping

None.