

**3GPP TSG\_CN**  
**Plenary Meeting #8, Dusseldorf, Germany**  
**21<sup>st</sup> – 23<sup>rd</sup> June 2000.**

**Tdoc NP-000240**

**Source:** TSG\_N WG 2  
**Title:** CRs to 3G Work Item CAMEL phase 2 - Stage 2 (1)  
**Agenda item:** 6.1.2  
**Document for:** APPROVAL

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**Introduction:**

This document contains 3 CRs on **Work Item CAMEL phase 2 (C1)**, that have been agreed by **TSG\_N WG 2**, and are forwarded to **TSG\_N Plenary meeting #8** for approval.

Tdoc	Spec	CR	Rev	CAT	Rel.	Old Ver	New Ver	Subject
N2-000247	03.78	A157	2	F	R97	6.5.0	6.6.0	Usage of Announcement Suppression Indicator
N2-000248	03.78	A158	2	A	R98	7.2.0	7.3.0	Usage of Announcement Suppression Indicator
N2-000249	23.078	177	2	A	R99	3.4.0	3.5.0	Usage of Announcement Suppression Indicator

3GPP/SMG Meeting #  
Rotenburg, Germany, 22-26 May 2000

Document **N2-000247**

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.

**03.78 CR A157r2**

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#8**

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:

N2

### Date:

26 May 2000

### Subject:

Usage of Announcement Suppression Indicator

### 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:

Misalignment between 02.78 and 03.78

The Announcement Suppression Indicator shall be also accepted when the Destination Number received from the gsmSCF in the connect operation corresponding to TDP12 dialogue is not the same as the stored ISUP Called party number, i.e. the MSISDN.

The Announcement Suppression Indicator shall be submitted to the HLR in the first SendRoutingInfoThe interrogation procedure may apply in the Home PLMN or at the IPLMN in case of Optimal Routing.

The Announcement Suppression Indicator is valid for the terminating part of the call for which the interrogation occurred. The Announcement Suppression Indicator will loose its influence when the terminating call is forwarded by addressed subscriber (addressed subscriber is either the original dialled number or the CSE changed number)

### Clauses affected:

### 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:**

This CR shall be corrects an essential error due to misalignment between stage 1 and stage 2, therefore is considers as category 1 (C1), as stated on NP-99361 which was approved in CN#5

#### 8.3.1.4 Action of the GMSC on receipt of Int\_Connect

If the Destination Number received from the gsmSCF (via the gsmSSF) is the same as the ISUP Called party number, i.e. the MSISDN, the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see GSM 09.78 [5]): Calling Party's Category and Generic Number. If received, the Announcement Suppression Indicator is stored. The further processing is described in subclause 8.3.1.3 with the addition that the Announcement Suppression indicator, if stored, is sent to the HLR in the Send\_Routeing\_Info message.

If:

- the Destination Number received from the gsmSCF (via the gsmSSF) is not the same as the stored ISUP Called party number, i.e. the MSISDN; and
- a CUG active indication was received from the HLR ; and
- CUG information was received in the ISUP\_IAM for the incoming call,

then an exception event is reported to the process gsmSSF, an ISUP\_Release is sent to the originating exchange and all resources are released.

Otherwise the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see GSM 09.78 [5]): Destination Number, Calling Party's Category, Generic Number, Original Called Party ID, Redirecting Party ID, ~~Announcement Suppression Indicator~~, and Redirection Information. Call parameters that are not included in the Int\_Connect message are unchanged.

As a network operator option loop prevention mechanisms may cause the redirection information to be ignored or modified (e.g., if the Redirection counter has been decreased).

Signalling limitations or regulatory requirements may require the Calling Party's Category, Generic Number, Original Called Party Number and Redirecting Party ID to be ignored or modified.

The network signalling system shall indicate that this is an internal network number.

## 9.12.1.2 Information Elements

Send Routing Info contains the following CAMEL specific IE:

Information element name	Required	Description
Alerting Pattern	C	This IE indicates the kind of Alerting Pattern to be applied.
Suppression Of Announcement	C	This IE indicates that announcements or tones generated as a result of unsuccessful call setup shall be suppressed. Shall be sent in the <del>second</del> -interrogation if available, i.e., when it has been received from the gsmSCF.
Suppress T-CSI	C	This IE indicates that T-CSI shall be suppressed. Shall always be sent in the second interrogation
Supported CAMEL Phases	M	This IE lists the supported CAMEL phases.
Call Reference Number	M	This IE carries the Call Reference Number allocated for the call by the GMSC.  Shall be allocated once per call and sent in both first and second interrogations.
GMSC Address	M	This IE is the E.164 address of the GMSC

C Conditional (The IE shall be sent, if received from the gsmSCF or set by the gsmSSF)

M Mandatory (The IE shall always be sent when the GMSC supports CAMEL)

## 9.13 MSC to gsmSCF information flows

### 9.13.1 SS Invocation Notification

#### 9.13.1.1 Description

This IF is generated by the MSC when it shall notify the gsmSCF of a supplementary service invocation.

3GPP/SMG Meeting #  
Rotenburg, Germany, 22-26 May 2000

Document **N2-000248**

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.

**03.78 CR A158r2**

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#8**

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:

**N2**

### Date:

**26 May 2000**

### Subject:

**Usage of Announcement Suppression Indicator**

### 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:

**Misalignment between 02.78 and 03.78**

The Announcement Suppression Indicator shall be also accepted when the Destination Number received from the gsmSCF in the connect operation corresponding to TDP12 dialogue is not the same as the stored ISUP Called party number, i.e. the MSISDN.

The Announcement Suppression Indicator shall be submitted to the HLR in the first SendRoutingInfo-The interrogation procedure may apply in the Home PLMN or at the IPLMN in case of Optimal Routing.

The Announcement Suppression Indicator is valid for the terminating part of the call for which the interrogation occurred. The Announcement Suppression Indicator will loose its influence when the terminating call is forwarded by addressed subscriber (addressed subscriber is either the original dialled number or the CSE changed number)

### Clauses affected:

### 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

**This CR shall be corrects an essential error due to misalignment between stage 1 and**

**comments:**

stage 2, therefore is considers as category 1 (C1), as stated on NP-99361 which was approved in CN#5

#### 8.3.1.4 Action of the GMSC on receipt of Int\_Connect

If the Destination Number received from the gsmSCF (via the gsmSSF) is the same as the ISUP Called party number, i.e. the MSISDN, the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see GSM 09.78 [5]): Calling Party's Category and Generic Number. If received, the Announcement Suppression Indicator is stored. The further processing is described in subclause 8.3.1.3 with the addition that the Announcement Suppression indicator, if stored, is sent to the HLR in the Send\_Routeing\_Info message.

If:

- the Destination Number received from the gsmSCF (via the gsmSSF) is not the same as the stored ISUP Called party number, i.e. the MSISDN; and
- a CUG active indication was received from the HLR ; and
- CUG information was received in the ISUP\_IAM for the incoming call,

then an exception event is reported to the process gsmSSF, an ISUP\_Release is sent to the originating exchange and all resources are released.

Otherwise the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see GSM 09.78 [5]): Destination Number, Calling Party's Category, Generic Number, Original Called Party ID, Redirecting Party ID, ~~Announcement Suppression Indicator~~, and Redirection Information. Call parameters that are not included in the Int\_Connect message are unchanged.

As a network operator option loop prevention mechanisms may cause the redirection information to be ignored or modified (e.g., if the Redirection counter has been decreased).

Signalling limitations or regulatory requirements may require the Calling Party's Category, Generic Number, Original Called Party Number and Redirecting Party ID to be ignored or modified.

The network signalling system shall indicate that this is an internal network number.

#### 8.3.1.5 Action of the GMSC on receipt of Send\_Routeing\_Info Negative Response (at state Wait\_For\_Routeing\_Info\_2)

An exception event is reported to the process gsmSSF. If the Announcement Suppression indicator has been received from the gsmSCF (via the gsmSSF) any announcements or tones shall be suppressed.

#### 8.3.1.6 Action of the GMSC on receipt of Send\_Routeing\_Info ack with MSRN (at state Wait\_For\_Routeing\_Info\_2)

An ISUP\_IAM with the MSRN as Called party number is constructed.

#### 8.3.1.7 Action of the GMSC on receipt of Send\_Routeing\_Info ack with FTN (at state Wait\_For\_Routeing\_Info\_2)

The information received from HLR is used to overwrite corresponding call parameters (for details see GSM 03.18 [3]). The redirection counter is incremented.

#### 8.3.1.8 Action of the GMSC on receipt of Send\_Routeing\_Info ack with O-CSI and FTN (at state Wait\_For\_Routeing\_Info\_2)

The information received from the HLR is used to overwrite corresponding call parameters. The redirection counter is incremented. The Called Party Number is set to FTN.



## 9.12.1.2 Information Elements

Send Routing Info contains the following CAMEL specific IE:

Information element name	Required	Description
Alerting Pattern	C	This IE indicates the kind of Alerting Pattern to be applied.
Suppression Of Announcement	C	This IE indicates that announcements or tones generated as a result of unsuccessful call setup shall be suppressed. Shall be sent in the <del>second</del> -interrogation if available, i.e., when it has been received from the gsmSCF.
Suppress T-CSI	C	This IE indicates that T-CSI shall be suppressed. Shall always be sent in the second interrogation
Supported CAMEL Phases	M	This IE lists the supported CAMEL phases.
Call Reference Number	M	This IE carries the Call Reference Number allocated for the call by the GMSC. Shall be allocated once per call and sent in both first and second interrogations.
GMSC Address	M	This IE is the E.164 address of the GMSC

C Conditional (The IE shall be sent, if received from the gsmSCF or set by the gsmSSF)

M Mandatory (The IE shall always be sent when the GMSC supports CAMEL)

## 9.13 MSC to gsmSCF information flows

### 9.13.1 SS Invocation Notification

#### 9.13.1.1 Description

This IF is generated by the MSC when it shall notify the gsmSCF of a supplementary service invocation.

**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 177r2**

Current Version: **3.4.0**

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

↑ CR number as allocated by MCC support team

For submission to: **CN#8**  
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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:** N2 **Date:** 26 May 2000

**Subject:** Usage of Announcement Suppression Indicator

**Work item:** CAMEL phase 2

**Category:** F Correction  **Release:** Phase 2   
A Corresponds to a correction in an earlier release  Release 96   
(only one category shall be marked with an X) B Addition of feature  Release 97   
C Functional modification of feature  Release 98   
D Editorial modification  Release 99   
Release 00

**Reason for change:** Misalignment between 22.078 and 23.078

The Announcement Suppression Indicator shall be also accepted when the Destination Number received from the gsmSCF in the connect operation corresponding to TDP12 dialogue is not the same as the stored ISUP Called party number, i.e. the MSISDN.

The Announcement Suppression Indicator shall be submitted to the HLR in the first SendRoutingInfoThe interrogation procedure may apply in the Home PLMN or at the IPLMN in case of Optimal Routing.

The Announcement Suppression Indicator is valid for the terminating part of the call for which the interrogation occurred. The Announcement Suppression Indicator will loose its influence when the terminating call is forwarded by addressed subscriber (addressed subscriber is either the original dialled number or the CSE changed number)

**Clauses affected:**

**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:**

This CR shall be corrects an essential error due to misalignment between stage 1 and stage 2, therefore is considers as category 1 (C1), as stated on NP-99361 which was approved in CN#5

#### 4.5.3.1.5 Action of the GMSC on receipt of Int\_Connect

If the Destination Number received from the gsmSCF (via the gsmSSF) is the same as the ISUP Called party number, i.e. the MSISDN, the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see 3G TS 29.078 [5]): Calling Partys Category and Generic Number. If received, the Announcement Suppression Indicator is stored. The further processing is described in subclause 4.5.3.1.3 with the addition that the Announcement Suppression indicator, if stored, is sent to the HLR in the Send\_Routeing\_Info message.

If:

- the Destination Number received from the gsmSCF (via the gsmSSF) is not the same as the stored ISUP Called party number, i.e. the MSISDN, and
- a CUG active indication was received from the HLR, and
- CUG information was received in the ISUP\_IAM for the incoming call;

then an exception event is reported to the process gsmSSF, an ISUP\_Release is sent to the originating exchange and all resources are released.

Otherwise the following parameters, if received, are used to overwrite the corresponding ISUP parameters (for mapping see 3G TS 29.078 [5]): Destination Number, Calling Partys Category, Generic Number, Original Called Party ID, Redirecting Party ID, ~~Announcement Suppression Indicator~~, and Redirection Information. Call parameters that are not included in the Int\_Connect message are unchanged.

As a network operator option loop prevention mechanisms may cause the redirection information to be ignored or modified (e.g., if the Redirection counter has been decreased).

Signalling limitations or regulatory requirements may require the Calling Partys Category, Generic Number, Original Called Party Number and Redirecting Party ID to be ignored or modified.

The network signalling system shall indicate that this is an internal network number.

#### 4.5.3.1.6 Action of the GMSC on receipt of Send\_Routeing\_Info Negative Response (at state Wait\_For\_Routeing\_Info\_2)

An exception event is reported to the process gsmSSF. If the Announcement Suppression indicator has been received from the gsmSCF (via the gsmSSF) any announcements or tones shall be suppressed.

## 4.6.10 GMSC to HLR information flows

### 4.6.10.1 Send Routeing Info

#### 4.6.10.1.1 Description

This IF is described in 3G TS 23.018 [3] and is used to request information from the HLR to route an MT call.

#### 4.6.10.1.2 Information Elements

Send Routeing Info contains the following CAMEL specific IE:

<u>Information element name</u>	<u>Required</u>	<u>Description</u>
Alerting Pattern	C	This IE indicates the kind of Alerting Pattern to be applied.
Suppression Of Announcement	C	This IE indicates that announcements or tones generated as a result of unsuccessful call setup shall be suppressed. Shall be sent in the <del>second</del> -interrogation if available, i.e., when it has been received from the gsmSCF.
Suppress T-CSI	C	This IE indicates that T-CSI shall be suppressed. Shall always be sent in the second interrogation
Supported CAMEL Phases	M	This IE lists the supported CAMEL phases.
Call Reference Number	M	This IE carries the Call Reference Number allocated for the call by the GMSC. Shall be allocated once per call and sent in both first and second interrogations.
GMSC Address	M	This IE is the E.164 address of the GMSC
Call Diversion Treatment Indicator	C	This IE indicates if the call can be forwarded using the Call Forwarding or Call Deflection Supplementary Services. Shall be sent if received within Forward Service Interaction Indicator in Service Interaction Indicators Two from IAM or previous CAMEL processing.

C Conditional (The IE shall be sent, if received from the gsmSCF or set by the gsmSSF).

M Mandatory (The IE shall always be sent when the GMSC supports CAMEL).