Plenary Meeting \#8, Dusseldorf, Germany
$21^{\text {st }}-23^{\text {rd }}$ June 2000.
Source: TSG_N WG 2
Title:
CRs to 3G Work Item CAMEL phase 2 - Stage 3
Agenda item: 6.1.2
Document for: APPROVAL

## Introduction:

This document contains $\mathbf{3}$ 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 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| N2-000226 | 09.78 | A075 | 2 | F | R97 | 6.4 .0 | 6.5 .0 | Cla rific ation of encoding of CollectedDigits |
| N2-000227 | 09.78 | A076 | 2 | A | R98 | 7.0 .0 | 7.1 .0 | Cla rific ation of encoding of CollectedDigits |
| N2-000228 | 29.078 | 096 | 2 | A | R99 | 3.3 .0 | 3.4 .0 | Cla rific ation of encoding of CollectedDigits |

# CHANGE REQUEST 

# 09.78 CR A075r2 Current Version: 6.4.0 <br> GSM (AA.BB) or $3 G$ (AA.BBB) specification number $\uparrow$ <br> $\uparrow$ CR number as allocated by MCC support team 

For submission to: CN\#8
list expected approval meeting \# here $\uparrow$

| for approval | $\mathbf{X}$ |
| ---: | ---: |
|  |  |
|  |  |


| strategic |  |
| ---: | ---: |
| non-strategic | $\square \begin{array}{c}\text { (for SMG } \\ \text { use only) }\end{array}$ |

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
$\frac{\text { Proposed change affects: }}{\text { (at least one should be marked with an } X}$
(U)SIM $\square$ ME $\square$

UTRAN / Radio $\square$ Core Network

Subject: Clarification of encoding of CollectedDigits and DigitsResponse
Work item: CAMEL Phase 2

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

Reason for Via the Prompt and Collect User Information operation the gsmSCF requests the digits change: to be collected from the subscriber and the gsmSRF reports the digits received. It shall be possible to collect non decimal digits. The encoding definition is missing.

## Clauses affected:

Other specs Other 3G core specifications
Other GSM core specifications MS test specifications BSS test specifications O\&M specifications

| $\mathbf{X}$ | $\rightarrow$ List of CRs: $\quad$ CR 29.078-A076 |
| :--- | :--- |
| $\mathbf{X}$ | $\rightarrow$ List of CRs: CR 09.78-096 |
|  | $\rightarrow$ List of CRs: |
|  | $\rightarrow$ List of CRs: |
|  | $\rightarrow$ List of CRs: |

Other This correction is considered as an essential correction since it is required to allow multicomments: vendor configuration. Therefore category C1 is proposed.
$\qquad$

CollectedDigits
minimumNbOfDigits maximumNbOfDigits
endOfReplyDigit
cancelDigit
startDigit
firstDigitTimeOut
interDigitTimeOut
errorTreatment
interruptableAnnInd
voiceInformation
voiceBack
\}
:: = SEQUENCE \{
[0] INTEGER (1..16)
[1] INTEGER (1..16),
[2] OCTET STRING (SIZE (1..2))
[3] OCTET STRING (SIZE (1..2))
[4] OCTET STRING (SIZE (1..2))
[5] INTEGER (1..127)
[6] INTEGER (1..127)
[7] ErrorTreatment
[8] BOOLEAN
[9] BOOLEAN
[10] BOOLEAN

DEFAULT 1,
OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,
DEFAULT stdErrorAndInfo, DEFAULT TRUE, DEFAULT FALSE, DEFAULT FALSE
-- The use of voiceBack and the support of voice recognition via voiceInformation is
-- network operator specific. The endOfReplyDigit, cancelDigit, and startDigit parameters
-- have been designated as OCTET STRING, and are to be encoded as BCD, one digit per octet
-- only, contained in the four least significant bits of each OCTET. The following encoding shall
-- be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).
-- The usage is service dependent.
*** Next Modification **

Digits
::= OCTET STRING (SIZE (minDigitsLength .. maxDigitsLength))
-- Indicates the address signalling digits. Refer to the ETS 300 356-1 [3] Generic Number
-- and Generic Digits parameters for encoding. The coding of the subfields "NumberQualifier"
-- in Generic Number and "Type Of Digits" in Generic Digits are irrelevant to the CAP, the
-- ASN. 1 tags are sufficient to identify the parameter. The ISUP format does not allow to
-- exclude these subfields, therefore they shall be sent. The value is network operator specific.
_- The following parameters should use Generic Number:
-- AdditionalCallingPartyNumber for InitialDP
-- AssistingSSPIPRoutingAddress for EstablishTemporaryConnection
-- CorrelationID for AssistRequestInstructions
--
-- The following parameters should use Generic Digits:
-- CorrelationID in EstablishTemporaryConnection
-_ number in VariablePart
-- digitsResponse in ReceivedInformationArg
-- In the digitsResponse the digits may also include the '*', '\#', a, b, c and d digits by using
-- the IA5 character encoding scheme. If the BCD even or BCD odd encoding scheme is used, the
-- follwing encoding shall be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).
-- Note that when CorrelationID is transported in Generic Digits, then the digits shall
-- always be BCD encoded.

# CHANGE REQUEST 

# 09.78 CR A076r2 Current Version: 7.0.0 <br> GSM (AA.BB) or $3 G(A A . B B B)$ specification number $\uparrow$ <br> $\uparrow$ CR number as allocated by MCC support team 

For submission to: CN\#8
list expected approval meeting \# here $\uparrow$


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 $\square$ ME $\square$

UTRAN / Radio $\square$ Core Network

Subject: Clarification of encoding of CollectedDigits and DigitsResponse
Work item: CAMEL Phase 2
Category:
(only one category
shall be marked
with an $X$ )
Reason for
change:

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

|  |
| :---: |
| $\mathbf{X}$ |
|  |
|  |
|  |

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


Via the Prompt and Collect User Information operation the gsmSCF requests the digits to be collected from the subscriber and the gsmSRF reports the digits received. It shall be possible to collect non decimal digits. The encoding definition is missing.

## Clauses affected:

Other specs Other 3G core specifications
Other GSM core specifications MS test specifications BSS test specifications O\&M specifications

| $\mathbf{X}$ | $\rightarrow$ List of CRs: CR 29.078-096 |
| ---: | :--- |
|  | $\rightarrow$ List of CRs: CR 09.78-A075 |
|  | $\rightarrow$ List of CRs: |
|  | $\rightarrow$ List of CRs: |
|  | $\rightarrow$ List of CRs: |

Other This correction is considered as an essential correction since it is required to allow multicomments: vendor configuration. Therefore category C1 is proposed.
$\qquad$

## First Modification

CollectedDigits
minimumNbOfDigits maximumNbOfDigits endOfReplyDigit
cancelDigit
startDigit
firstDigitTimeOut interDigitTimeOut
errorTreatment
interruptableAnnInd
voiceInformation
voiceBack
\}
:: = SEQUENCE \{
[0] INTEGER (1..16)
1] INTEGER (1..16),
[2] OCTET STRING (SIZE (1..2))
[3] OCTET STRING (SIZE (1..2))
4] OCTET STRING (SIZE (1..2))
[5] INTEGER (1..127)
[6] INTEGER (1..127)
[7] ErrorTreatment
[8] BOOLEAN
[9] BOOLEAN
[10] BOOLEAN

## DEFAULT 1,

OPTIONAL, OPTIONAL, OPTIONAL OPTIONAL, OPTIONAL
DEFAULT stdErrorAndInfo, DEFAULT TRUE, DEFAULT FALSE, DEFAULT FALSE
-- The use of voiceBack and the support of voice recognition via voiceInformation is
-- network operator specific. The endOfReplyDigit, cancelDigit, and startDigit parameters
-- have been designated as OCTET STRING, and are to be encoded as BCD, one digit per octet
-- only, contained in the four least significant bits of each OCTET. The following encoding shall
-- be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).
-- The usage is service dependent.

Digits $::=$ OCTET STRING (SIZE (minDigitsLength .. maxDigitsLength))
-- Indicates the address signalling digits. Refer to the ETS 300 356-1 [3] Generic Number
-- and Generic Digits parameters for encoding. The coding of the subfields "NumberQualifier"
-- in Generic Number and "Type Of Digits" in Generic Digits are irrelevant to the CAP, the
-- ASN.1 tags are sufficient to identify the parameter. The ISUP format does not allow to
-- exclude these subfields, therefore they shall be sent. The value is network operator specific.
-- The following parameters should use Generic Number:
-- AdditionalCallingPartyNumber for InitialDP
-- AssistingSSPIPRoutingAddress for EstablishTemporaryConnection
-- CorrelationID for AssistRequestInstructions
--
-- The following parameters should use Generic Digits:
-- CorrelationID in EstablishTemporaryConnection
-- number in VariablePart
-- digitsResponse in ReceivedInformationArg
-- Note that when CorrelationID is transported in Generic Digits, then the digits shall
-- always be BCD encoded.

## *** Next Modification

Digits
::= OCTET STRING (SIZE (minDigitsLength .. maxDigitsLength))
-- Indicates the address signalling digits. Refer to the ETS 300 356-1 [3] Generic Number
-- and Generic Digits parameters for encoding. The coding of the subfields "NumberQualifier"
-- in Generic Number and "Type Of Digits" in Generic Digits are irrelevant to the CAP, the
-- ASN.1 tags are sufficient to identify the parameter. The ISUP format does not allow to
-- exclude these subfields, therefore they shall be sent. The value is network operator specific.
--
-- The following parameters should use Generic Number:
-- AdditionalCallingPartyNumber for InitialDP
-- AssistingSSPIPRoutingAddress for EstablishTemporaryConnection
-- CorrelationID for AssistRequestInstructions
--
-- The following parameters should use Generic Digits:
-- CorrelationID in EstablishTemporaryConnection
-- number in VariablePart
-- digitsResponse in ReceivedInformationArg
-- In the digitsResponse the digits may also include the '*', '\#', a, b, c and d digits by using -- the IA5 character encoding scheme. If the BCD even or BCD odd encoding scheme is used, the -- follwing encoding shall be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).
-- Note that when CorrelationID is transported in Generic Digits, then the digits shall
-- always be BCD encoded.


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
$\frac{\text { Proposed change affects: }}{\text { (at least one should be marked with an } X}$
(U)SIM $\square$ ME $\square$

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Subject: Clarification of encoding of CollectedDigits and DigitsResponse
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(only one category
B Addition of feature
shall be marked
C Functional modification of feature
with an X)
D Editorial modification

|  |
| :--- |
| $\mathbf{X}$ |
|  |
|  |

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


Reason for Via the Prompt and Collect User Information operation the gsmSCF requests the digits change:
to be collected from the subscriber and the gsmSRF reports the digits received. It shall be possible to collect non decimal digits. The encoding definition is missing.

## Clauses affected:

Other specs Other 3G core specifications
affected:

Other 3G core specifications Other GSM core specifications MS test specifications BSS test specifications O\&M specifications
 $\rightarrow$ List of CRs:
$\mathbf{X} \rightarrow$ List of CRs:
CR 09.78-A075, CR 09.78-A076

Other This correction is considered as an essential correction since it is required to allow multicomments: vendor configuration. Therefore category C1 is proposed.

CollectedDigits
minimumNbOfDigits
maximumNbOfDigits endOfReplyDigit
cancelDigit
startDigit
firstDigitTimeOut interDigitTimeOut errorTreatment interruptableAnnInd voiceInformation voiceBack
::= SEQUENCE \{
[0] INTEGER (1..30) DEFAULT 1,
[1] INTEGER (1..30),
[2] OCTET STRING (SIZE (1..2)) OPTIONAL,
[3] OCTET STRING (SIZE (1..2)) OPTIONAL,
[4] OCTET STRING (SIZE (1..2)) OPTIONAL,
[5] INTEGER (1..127)
[6] INTEGER (1..127)
[7] ExrorTreatmen
[8] BOOLEAN
[9] BOOLEAN
[10] BOOLEAN

OPIIONAL,
OPTIONAL,
DEFAULT stdErrorAndInfo,
DEFAULT TRUE,
DEFAULT FALSE,
DEFAULT FALSE

- The use of voiceBack and the support of voice recognition via voiceInformation
-- is network operator specific.
-- The endOfReplyDigit, cancelDigit, and startDigit parameters have been
-- designated as OCTET STRING, and are to be encoded as BCD, one digit per octet
-- only, contained in the four least significant bits of each OCTET. The following encoding shall -- be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).
-- The usage is service dependent.
$\overline{\overline{--}}$ firstDigitTimeOut and interDigitTimeOut are measured in seconds.


## *** Next Modification

Digits \{PARAMETERS-BOUND : bound\} ::= OCTET STRING (SIZE
(bound.\&minDigitsLength..bound.\&maxDigitsLength))
-- Indicates the address signalling digits.
-- Refer to ETS $300356-1$ [8] Generic Number \& Generic Digits parameters for encoding.
| =- The digits may also include the $' \# \prime, \quad \mid \star \prime, a, b$ and $c$ digits.
-- The coding of the subfields 'NumberQualifier' in Generic Number and 'TypeOfDigits' in
-- Generic Digits are irrelevant to the CAP;
-- the ASN.1 tags are sufficient to identify the parameter.
-- The ISUP format does not allow to exclude these subfields,
-- therefore the value is network operator specific.
-- The following parameters should use Generic Number:
-- AdditionalCallingPartyNumber for InitialDP
-- AssistingSSPIPRoutingAddress for EstablishTemporaryConnection
-- CorrelationID for AssistRequestInstructions
-- CalledAddressValue for all occurrences, CallingAddressValue for all occurrences.
--
-- The following parameters should use Generic Digits:
-- CorrelationID in EstablishTemporaryConnection
-- number in VariablePart
-- digitsResponse in ReceivedInformationArg
-- In the digitsResponse the digits may also include the ' $\star$ ', ' \#', $a, b, c$ and d digits by using -- the IA5 character encoding scheme. If the BCD even or BCD odd encoding scheme is used, the
-- follwing encoding shall be applied for the non-decimal characters:
-- 1011 (*), 1100 (\#).

