3GPP TSG CN Plenary Meeting #10, Bangkok, Thailand 6th – 8th December 2000

Source:TSG_CN WG 4Title:CRs to R99 Work Item USSDAgenda item:7.23Document for:APPROVAL

Introduction:

This document contains 2 CRs on R99 Work Item USSD, that have been agreed by TSG_CN WG4, and is forwarded to TSG_CN Plenary meeting #10 for approval.

| SMG# | TDoc | SPEC | CR | RE | PHAS | VERS | SUBJECT | CAT |
|------|-----------|--------|-----|----|-------|-------|--------------------------------|-----|
| CN10 | N4-001068 | 29.002 | 192 | 2 | R99 | 3.6.0 | USSD corrections for Follow Me | F |
| CN10 | N4-001069 | 29.002 | 193 | 2 | Rel-4 | 4.1.0 | USSD corrections for Follow Me | А |

| | CHANGE REQUEST | | | | | | | | |
|---|-----------------------|---|--|---|---|--|---|---|---------|
| | | | 29.002 CR 192r2 Curr | | | | Current Versi | urrent Version: 3.6.0 | |
| | | | | | | | | | |
| For submission to: CN#10 for approval X strategic for information non-strategic | | | | | | | | | |
| | Form | : CR cover sheet, v | ersion 2 for 3GPP and SI | IG The | e latest ve | ersion of this form is av | ailable from: ftp://ftp.3gpp.o | org/Information/CR-Form- | -v2.doc |
| Proposed char (at least one should be | n ge e ma | e affects: rked with an X) | (U)SIM | | ME | UTRAI | N / Radio | Core Network | X |
| <u>Source:</u> | | CN4 | | | | | Date: | 14 th Novemb 2000 | er |
| Subject: | | USSD corre | ections for Follo | w Me | | | | | |
| Work item: | | Follow Me | | | | | | | |
| <u>Category:</u> | F A B C D | Correction Correspond Addition of Functional Editorial me | ds to a correction feature modification of odification | on in ar feature | n earli e | er release | X <u>Release:</u> | Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00 | X |
| <u>Reason for</u> <u>change:</u> | | critical corre- to include the messages of prevention) to allow the network/mc | ection ne gsmSCF add on the FFN-HLF MSISDN (ratho bbile initiated US | dress a R interf er than SSD m | as orig face ir IMSI essag | inating refere order to allow to be sent as jes on the FFI | nce for network w screening at th s destination refe N-HLR interface | initiated USSD ne HLR (fraud erence for | |
| Clauses affected | ed: | 7.3.1 | | | | | | | |
| Other specs affected: | C C M B C | other 3G cor other GSM c specificat IS test spec SS test spe 0&M specific | e specifications ore ions ifications cifications cations | | $\begin{array}{c} \rightarrow \\ \rightarrow \\ \rightarrow \\ \rightarrow \\ \rightarrow \\ \rightarrow \end{array}$ | List of CRs: List of CRs: List of CRs: List of CRs: List of CRs: List of CRs: | R00 | | |
| <u>Other</u> comments: | | | | | | | | | |

7.3.1 MAP-OPEN service

This service is used for establishing a MAP dialogue between two MAP service-users. The service is a confirmed service with service primitives as shown in table 7.3/1.

| Parameters | Request | Indication | Response | Confirm |
|--------------------------|---------|------------|----------|---------|
| Application context name | M | M(=) | Ū | C(=) |
| Destination address | Μ | M(=) | | |
| Destination reference | U | C(=) | | |
| Originating address | U | 0 | | |
| Originating reference | U | C(=) | | |
| Specific information | U | C(=) | U | C(=) |
| Responding address | | | U | C(=) |
| Result | | | Μ | M(=) |
| Refuse-reason | | | С | C(=) |
| Provider error | | | | 0 |

Table 7.3/1: Service-primitives for the MAP-OPEN service

Application context name:

This parameter identifies the type of application context being established. If the dialogue is accepted the received application context name shall be echoed. In case of refusal of dialogue this parameter shall indicate the highest version supported.

Destination address:

A valid SCCP address identifying the destination peer entity (see also clause 6). As an implementation option, this parameter may also, in the indication, be implicitly associated with the service access point at which the primitive is issued.

Destination-reference:

This parameter is a reference which refines the identification of the called process. It may be identical to Destination address but its value is to be carried at MAP level. Table 7.3/2 describes the MAP services using this parameter. Only these services are allowed to use it.

Table 7.3/2: Use of the destination reference

| MAP service | Reference type | Use of the parameter |
|----------------------------|---------------------------------------|---------------------------------------|
| | | |
| MAP-REGISTER-SS | IMSI | Subscriber identity |
| | | |
| MAP-ERASE-SS | IMSI | Subscriber identity |
| | | |
| MAP-ACTIVATE-SS | IMSI | Subscriber identity |
| | D (CI | |
| MAP-DEACTIVATE-SS | IMSI | Subscriber identity |
| MAD INTERPOCATE SS | IMSI | Subscriber identity |
| MAF-INTERROOATE-55 | 11/131 | Subscriber Identity |
| MAP-REGISTER-PASSWORD | IMSI | Subscriber identity |
| | | |
| MAP-PROCESS-UNSTRUCTURED- | IMSI (note 1) | Subscriber identity |
| SS-REQUEST | | |
| | | |
| MAP-UNSTRUCTURED- | IMSI <u>(note 2)</u> | Subscriber identity |
| SS-REQUEST | | |
| MAD UNSTRUCTURED SS NOTIEN | IMCI (noto 2) | Cubeeniber identity |
| MAP-UNSTRUCTURED-SS-NOTIFT | INISI <u>(IIOLE 2)</u> | Subscriber Identity |
| MAP-FORWARD-SHORT-MESSAGE | IMSI (note 3) | Subscriber identity |
| | | Subbrider Identity |
| MAP-REGISTER-CC-ENTRY | IMSI | Subscriber identity |
| | 1 | |
| MAP-ERASE-CC-ENTRY | IMSI | Subscriber identity |
| | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |

NOTE 1: On the HLR - HLR interface and on the HLR - gsmSCF interface the Destination reference shall be either IMSI or MSISDN.

NOTE 2: On the gsmSCF - HLR interface and on the HLR - HLR interface the Destination reference shall be either IMSI or MSISDN.

NOTE <u>3</u>: Only when the IMSI and the LMSI are received together from the HLR in the mobile terminated short message transfer.

Originating address:

A valid SCCP address identifying the requestor of a MAP dialogue (see also clause 6). As an implementation option, this parameter may also, in the request, be implicitly associated with the service access point at which the primitive is issued.

Originating-reference:

This parameter is a reference which refines the identification of the calling process. It may be identical to the Originating address but its value is to be carried at MAP level. Table 7.3/3 describes the MAP services using the parameter. Only these services are allowed to use it. Processing of the Originating-reference shall be performed according to the supplementary service descriptions and other service descriptions, e.g. operator determined barring. Furthermore the receiving entity may be able to use the value of the Originating-reference to screen the service indication.

Table 7.3/3: Use of the originating reference

| MAP service | Reference type | Use of the parameter |
|---------------------------|----------------------------|---------------------------|
| | | |
| MAP-REGISTER-SS | ISDN-Address-String | Originated entity address |
| | | |
| MAP-ERASE-SS | ISDN-Address-String | Originated entity address |
| | | |
| MAP-ACTIVATE-SS | ISDN-Address-String | Originated entity address |
| | | |
| MAP-DEACTIVATE-SS | ISDN-Address-String | Originated entity address |
| | 1 | 1 |
| MAP-INTERROGATE-SS | ISDN-Address-String | Originated entity address |
| | 1 | |
| MAP-REGISTER-PASSWORD | ISDN-Address-String | Originated entity address |
| | | 1 |
| MAP-PROCESS-UNSTRUCTURED- | ISDN-Address-String | Originated entity address |
| SS-REQUEST | | |
| | | |
| MAP-UNSTRUCTURED- | ISDN-Address-String (note) | Originated entity address |
| <u>SS-REQUEST</u> | | |
| MAP-UNSTRUCTURED- | ISDN-Address-String (note) | Originated entity address |
| SS-NOTIFY | ISDN-Address-string (note) | Originated entry address |
| | | |

| MAP-REGISTER-CC-ENTRY | ISDN-Address-String | Originated entity address | |
|-----------------------|---------------------|---------------------------|--|
| | | | |
| MAP-ERASE-CC-ENTRY | ISDN-Address-String | Originated entity address | |

NOTE: The Originating reference may be omitted.

Specific information:

This parameter may be used for passing any user specific information. Establishment and processing of the Specific information is not specified by GSM and shall be performed according to operator specific requirements.

Responding address:

An address identifying the responding entity. The responding address is included if required by the context (e.g. if it is different from the destination address).

Result:

This parameter indicates whether the dialogue is accepted by the peer.

Refuse reason:

This parameter is only present if the Result parameter indicates that the dialogue is refused. It takes one of the following values:

- Application-context-not-supported;
- Invalid-destination-reference;
- Invalid-originating-reference;
- No-reason-given;
- Remote node not reachable;
- Potential version incompatibility.

| | | | | | | _ | | | |
|--|-----------------------|--|--|--------------------|--|--|---|---|----------|
| | | | CHANGE | REQ | UEST | | | | |
| | | | 29.002 | CR | 193 | r2 | Current Version | on: 4.1.0 | |
| | | | | | | | | | |
| For submissio | on to | o: CN#10 | for a for info | pproval rmation | X | | strate non-strate | gic gic | |
| | Form | : CR cover sheet, v | ersion 2 for 3GPP and SMG | The lates | t version of th | is form is avail | able from: ftp://ftp.3gpp.o | rg/Information/CR-Form | i-v2.doc |
| Proposed cha (at least one should b | nge ne ma | e affects: arked with an X) | (U)SIM | ME | | UTRAN | / Radio | Core Network | X |
| <u>Source:</u> | | CN4 | | | | | <u>Date:</u> | 12 th Septeml 2000 | oer |
| Subject: | | USSD Corr | ections for Follow | Me | | | | | |
| Work item: | | Follow Me | | | | | | | |
| <u>Category:</u> | F A B C D | Correction Correspond Addition of Functional Editorial m | ds to a correction feature modification of fe odification | in an ea ature | rlier rele | ase | Release: | Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00 | X |
| <u>Reason for</u> <u>change:</u> | | To include messages prevention) to allow the network/mo | the gsmSCF addr on the FFN-HLR i MSISDN (rather obile initiated USS | than IMS | originatin in order SI) to be ages on | g referer to allow sent as the FFN | nce for network screening at th destination refe -HLR interface. | initiated USSI le HLR (fraud erence for | ס |
| Clauses affect | ed: | 7.3.1, | | | | | | | |
| Other specs affected: | C C M B C | Other 3G cor Other GSM c specificat 1S test spec SS test spe 0&M specific | e specifications core ions ifications cifications cations | | ightarrow List o ightarrow List o ightarrow List o ightarrow List o | f CRs: f CRs: f CRs: f CRs: f CRs: f CRs: | R99 | | |
| <u>Other</u> comments: | | | | | | | | | |

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| Parameters | Request | Indication | Response | Confirm |
|--------------------------|---------|------------|----------|---------|
| Application context name | М | M(=) | U | C(=) |
| Destination address | М | M(=) | | |
| Destination reference | U | C(=) | | |
| Originating address | U | 0 | | |
| Originating reference | U | C(=) | | |
| Specific information | U | C(=) | U | C(=) |
| Responding address | | | U | C(=) |
| Result | | | М | M(=) |
| Refuse-reason | | | С | C(=) |
| Provider error | | | | 0 |

Table 7.3/1: Service-primitives for the MAP-OPEN service

Application context name:

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| | - | |
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| | | |
| MAP-ERASE-SS | IMSI | Subscriber identity |
| | DAGI | |
| MAP-ACTIVATE-55 | IMSI | Subscriber identity |
| MAP-DEACTIVATE-SS | IMSI | Subscriber identity |
| | - | |
| MAP-INTERROGATE-SS | IMSI | Subscriber identity |
| | | |
| MAP-REGISTER-PASSWORD | IMSI | Subscriber identity |
| MAD DDOCESS UNSTRUCTURED | IMCI (moto 1) | Calegorite an identity |
| SS-REQUEST | IMSI <u>(IIOLE I)</u> | Subscriber identity |
| 55 10 20 251 | | |
| MAP-UNSTRUCTURED- | IMSI (note 2) | Subscriber identity |
| SS-REQUEST | | |
| | | |
| MAP-UNSTRUCTURED-SS-NOTIFY | IMSI (note 2) | Subscriber identity |
| MAD FORWARD SHOPT MESSAGE | | |
| MAP-FORWARD-SHORT-MESSAGE | IMSI (note <u>3</u>) | Subscriber identity |
| MAP-REGISTER-CC-ENTRY | IMSI | Subscriber identity |
| | 11/101 | Subscriber Identity |
| MAP-ERASE-CC-ENTRY | IMSI | Subscriber identity |
| | | |

NOTE 1: On the HLR - HLR interface and on the HLR - gsmSCF interface the Destination reference shall be either IMSI or MSISDN.

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NOTE <u>3</u>: Only when the IMSI and the LMSI are received together from the HLR in the mobile terminated short message transfer.

Originating address:

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| | | |
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| | | |
| MAP-ERASE-SS | ISDN-Address-String | Originated entity address |
| | | |
| MAP-ACTIVATE-SS | ISDN-Address-String | Originated entity address |
| | | |
| MAP-DEACTIVATE-SS | ISDN-Address-String | Originated entity address |
| | | 1 |
| MAP-INTERROGATE-SS | ISDN-Address-String | Originated entity address |
| MAD DECISIED DAGONODD | | |
| MAP-REGISTER-PASSWORD | ISDN-Address-String | Originated entity address |
| MAD DDOCESS LINSTRUCTURED | ISDN Addross String | Originated antity address |
| SS-REOUEST | ISDN-Address-String | Originated entity address |
| | | |
| MAP-UNSTRUCTURED- | ISDN-Address-String (note) | Originated entity address |
| SS-REQUEST | | |
| | | · |
| MAP-UNSTRUCTURED- | ISDN-Address-String (note) | Originated entity address |
| <u>SS-NOTIFY</u> | | |
| | 1 | |
| MAP-REGISTER-CC-ENTRY | ISDN-Address-String | Originated entity address |
| | | |
| MAP-ERASE-CC-ENTRY | ISDN-Address-String | Originated entity address |

NOTE: The Originating reference may be omitted.

Specific information:

This parameter may be used for passing any user specific information. Establishment and processing of the Specific information is not specified by GSM and shall be performed according to operator specific requirements.

Responding address:

An address identifying the responding entity. The responding address is included if required by the context (e.g. if it is different from the destination address).

Result:

This parameter indicates whether the peer accepts the dialogue.

Refuse reason:

This parameter is only present if the Result parameter indicates that the dialogue is refused. It takes one of the following values:

- Application-context-not-supported;
- Invalid-destination-reference;
- Invalid-originating-reference;
- No-reason-given;
- Remote node not reachable;
- Potential version incompatibility;
- Secured transport not possible.