3GPP TSG CN Plenary Meeting #26 8th – 10th December 2004 Athens, Greece.

Source: TSG CN WG4

Title: Corrections on Supplementary Services TEI4

Agenda item: 7.11

Document for: APPROVAL

| Spec | CR | Rev | Doc-2nd-Level N4-040 | Phase | Subject | Cat | Ver_C |
|--------|-----|-----|-------------------------|-------|----------------------------------|-----|-------|
| 24.080 | 040 | 1 | 1664 | Rel-4 | Sequence numbering for SS via PS | F | 4.3.1 |
| 24.080 | 041 | 1 | 1665 | Rel-5 | Sequence numbering for SS via PS | Α | 5.4.0 |
| 24.080 | 042 | 1 | 1666 | Rel-6 | Sequence numbering for SS via PS | Α | 6.1.0 |

3GPP TSG-CN4 Meeting #25 Seoul, Korea, 15-19 November 2004

| | | | | | | | | | | | | | OD 5 | .7.4 |
|-------------------------------|----------------|----------|-----------------------|---------------------------------------|---------|-----------|-------------|---------|----------|------------------------|--------|-------------------------|-----------|---------------|
| | | | (| CHAN | IGE | REC | QUE | EST | - | | | | CR-Form- | <i>\1</i> 7.1 |
| * | 24 | .080 | CR | 040 | | жrev | 1 | æ | Curr | ent ver | sion: | 4.3.1 | H H | |
| For <u>HELP</u> on u | sing i | this for | rm, see | bottom (| of this | s page o | r look | at th | пе рор | o-up tex | t over | r the 光 s | ymbols. | |
| | | | | | | | | | | | | | | |
| Duamana da la banana | - cc | 4 1 | 1100 - | | | NAT [| V D- | -I: - A | | . N | | 1 0 1 | | V |
| Proposed change a | шес | is: (| DICC a | ipps# | | IVIE . | K Ra | alo A | Access | s Netwo | ork | Core | Network | X |
| | | | | | | | | | | | | | | |
| Title: ૠ | Sec | quence | e numb | ering for | SS v | ia PS | | | | | | | | |
| Source: # | CN | 4 | | | | | | | | | | | | |
| | | | | | | | | | | - | | 11.11000 | | |
| Work item code: ₩ | TE | 4 | | | | | | | 1 | Date: ♯ | 18, | /11/2004 | | |
| Category: Ж | F | , | | . , | | | | | | ease: # | | | | |
| | | | the tollo rection) | owing cate | egories | S. | | | Us | se <u>one</u> o Ph2 | | ollowing r M Phase : | | |
| | | A (cor | respon | ds to a coi | rrectio | n in an e | arlier i | eleas | se) | R96 | (Rele | ease 199 | s) | |
| | | | | [:] feature), modificatio | on of f | eature) | | | | R97 R98 | | ease 199 ease 199 | | |
| | | D (edi | torial m | odification | 1) | - | | | | R99 | (Rele | ease 199 | | |
| | | | | ons of the a TR 21.900 | | categori | es car | 1 | | Rel-4 Rel-5 | | ease 4) ease 5) | | |
| | | | - | | _ | | | | | Rel-6 | (Rele | ease 6) | | |
| | | | | | | | | | | Rel-7 | (Rei | ease 7) | | |
| | | | | | | | | | | | | | | |
| Reason for change | : # | | | Correction on wards | | SS prote | col c | an he | used | l also in | the F | PS doma | in In the | |
| | | | | the "Sec | | | | | | | | | | |
| | | | | PS doma | | | | | | | | | | |
| | | | | should be nstance ι | | | | | | | | | | |
| | | | | 'S domair | | | | | | | | | | |
| | | | | numberin | | | | | | | | | | a |
| | | | | nain and r rroneous | | is result | the IV | ISC v | will igr | nore the | next | CC uplir | 1K | |
| | | | _ | | • | | | | | | | | | |
| Summary of chang | / e : ૠ | | | d, that a s numberin | | | | | | | | | | |
| | | | | d SS pro | | | | | | ie sequ | ence | numben | ng or the | |
| | 0.0 | D'. L | | · | 00.1 | | • . | 1 | 1.1 | 00 1 | | | DO | |
| Consequences if not approved: | ж | | | case of a C or MM i | | | | | | | | | | ذ |
| | | | | ication du | | | | | | | | 3 | 3 | |
| L | | | | | | | | | | | | | | |
| Clauses affected: | ¥ | 3.4 | | | | | | | | | | | | |
| | | VI | 1 | | | | | | | | | | | |
| Other specs | ¥ | X | Othe | r core spe | ecifica | ations | ¥ | CR | 24.00 | 7 068 | | | | |

3.4 Message type

The message type IE and its use are defined in TS 24.007. Table 3.1 defines the value part of the message type IE used in the supplementary service protocol.

Table 3.1: Message types

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Message types |
|---|---|---|---|---|---|---|---|------------------------------|
| Х | Х | 1 | 0 | | | | | Clearing messages: |
| | | | | 1 | 0 | 1 | 0 | - RELEASE COMPLETE |
| х | Х | 1 | 1 | | | | | Miscellaneous message group: |
| | | | | 1 | 0 | 1 | 0 | - FACILITY |
| | | | | 1 | 0 | 1 | 1 | - REGISTER |
| | | | | | | | | |

For messages transmitted via CS domain the following applies:

- When the radio connection started with a core network node of earlier than R99, bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See <u>3GPP TS 24.007[4]</u>.
- When the radio connection started with a core network node of R'99 or later, bits 7 and 8 are reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See <u>3GPP TS 24.007[4]</u>.

For messages transmitted via PS domain the following applies:

- No sequence number shall be used. Bits 7 and 8 are shall be coded with a "0". See 3GPP TS 24.007[4]. If a sequence number is received on the network side it shall be ignored.

3GPP TSG-CN4 Meeting #25 Seoul, Korea, 15-19 November 2004

| | | | | | | | | | | | | | CR-Form-v7.1 |
|-------------------------------|----------------|---|---|--|---|--|---|--|---|--|---|---|---|
| | | | (| CHAN | IGE | REG | UE | ST | • | | | | CR-FOIIII-V7.1 |
| × | 24 | .080 | CR | 041 | | жrev | 1 | ж | Current | t vers | sion: | 5.4.0 | æ |
| For <u>HELP</u> on us | sing | this for | m, see | e bottom | of this | page o | look | at th | e pop-ur | o text | over | the 光 s | ymbols. |
| Proposed change a | affec | <i>ts:</i> (| JICC a | apps# <mark>_</mark> | | ME | (Ra | dio A | ccess N | etwor | rk | Core N | letwork X |
| Title: # | Sec | quence | numb | pering for | SS vi | a PS | | | | | | | |
| Source: # | CN | 4 | | | | | | | | | | | |
| Work item code: ₩ | TE | 14 | | | | | | | Dat | te: Ж | 18/ | 11/2004 | |
| Category: | Deta | F (corr A (corr B (add C (fund D (edit iled exp | rection) respone lition of ctional torial m blanatic | ds to a co f feature), modification ons of the TR 21.900 | rrectior on of fe n) above | n in an ea | | | Ph e) R9 R9 R9 R9 Re Re | o <u>ne</u> of 2 96 97 | the fo (GSM (Rele (Rele (Rele (Rele (Rele (Rele (Rele | I-5 Illowing re I Phase 2 Pase 1996 Pase 1998 Pase 4) Pase 5) Pase 6) Pase 7) | ?) ?) ?) 8) |
| Reason for change | <i>:</i> ₩ | From CS d used opera sequ SS ir sequ the F | n Rel-4 lomain in the ation" ence in the P ence r | PS dom should be nstance S domai | s the Squence ain, it e used for used for n. But g during that as | ed messis not cluded. One por MM, with this nog a CS | age tear hossib CC and defined | ransfow the legisterial interest in the legisterial interest interest in the legisterial interest interest in the legisterial interest in the legisterial interest interest in the legisterial interest in the legisterial interes | er opera e "Seque erpretation of in the Community, there is ected by | tion" enced on is CS do s the a par | is used mest that to main risk that the control of | ed for SS ssage tra he same is also nat the s SS trans | S. If SS is ansfer e send used for end action via |
| Summary of chang | e: # | sequ | ence r | d, that a s numbering d SS pro | g and | thus do | es no | t imp | | | | | |
| Consequences if not approved: | ж | domai | in a Co | case of a C or MM ication d | messa | age will l | oe igr | | | | | | PS nessage |
| Olaman effects ! | 00 | 0.4 | | | | | | | | | | | |
| Clauses affected: | \mathfrak{H} | 3.4 | | | | | | | | | | | |
| Other specs | ¥ | Y N X | Othe | r core sp | ecifica | tions | \mathbb{H} | CR | <mark>24.007 (</mark> | 069 | | | |

3.4 Message type

The message type IE and its use are defined in TS 24.007. Table 3.1 defines the value part of the message type IE used in the supplementary service protocol.

Table 3.1: Message types

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Message types |
|---|---|---|---|---|---|---|---|------------------------------|
| Х | Х | 1 | 0 | | | | | Clearing messages: |
| | | | | 1 | 0 | 1 | 0 | - RELEASE COMPLETE |
| х | Х | 1 | 1 | | | | | Miscellaneous message group: |
| | | | | 1 | 0 | 1 | 0 | - FACILITY |
| | | | | 1 | 0 | 1 | 1 | - REGISTER |
| | | | | | | | | · |

For messages transmitted via CS domain the following applies:

- ___When the radio connection started with a core network node of earlier than R99, bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See 3GPP TS 24.007[4].
- ___When the radio connection started with a core network node of R'99 or later, bits 7 and 8 are reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See <u>3GPP TS 24.007 [4]</u>.

For messages transmitted via PS domain the following applies:

- No sequence number shall be used. Bits 7 and 8 shall be coded with a "0". See 3GPP TS 24.007 [4]. If a sequence number is received on the network side it shall be ignored.

3GPP TSG-CN4 Meeting #25 Seoul, Korea, 15-19 November 2004

| | | | | | | | | | | | | OD Form 1/7.1 |
|--|----------------------------------|--|---|--|---|--|--|--|---|---|--|---|
| | | | CHA | NGE F | REQ | UE | ST | | | | , | CR-Form-v7.1 |
| * | 24.0 | 080 C | R 042 | H | rev | 1 | ¥ | Current | versio | on: 6 | .1.0 | æ |
| For HELP on u | | | see botton | n of this p | | _ | | e pop-up | | | | <i>mbols.</i> etwork X |
| Title: | Sequ | ience ni | umbering fo | or SS via | PS | | | | | | | |
| Source: ೫ | CN4 | | | | | | | | | | | |
| | | | | | | | | Dat | 00 | 40/44 | /0004 | |
| Work item code: ₩ | IEI4 | | | | | | | Dat | te: # | 18/11 | /2004 | |
| Category: | F A B C D Detaile | (correct (corres) (additio (functio (editoria ed explar | following ca ion) bonds to a c n of feature) nal modifica al modification nations of the PP TR 21.90 | orrection in), tion of feat on) e above ca | ture) | | elease | Ph2 | ne of the control of | GSM P Releas Releas Releas | e 5) e 6) | |
| Reason for change | | CS domused in operation sequence SS in the sequence the PS | el-4 onward nain the "Se the PS dor on" should I ce instance te PS doma ce numberi domain and te erroneou | equenced main, it is be used. o used for ain. But w ing during d that as i | not cle One po MM, C with this | age tra ear ho essible CC and defin call is | ansfe w the e inte d SS ition, affe | er operate "Seque erpretation in the Control there is control to the control t | tion" is enced on is th CS don the ris a para | used messanat the nain is sk that llel SS | for SS age trainsame also until the se transa | . If SS is nsfer send sed for end action via |
| Summary of change: It is clarified, that a SS transaction via the PS domain does not use the sequence numbering and thus does not impact the sequence numbering MM, CC and SS protocol in the CS domain. | | | | | | | | | | | | |
| Consequences if not approved: | d | lomain a | in case of a CC or MM luplication | 1 messag | e will b | e igno | | | | | | |
| | | | | | | | | | | | | |
| Clauses affected: | * | 3.4 | | | | | | | | | | |

第 CR 24.007 070

Other core specifications

Test specifications

Other specs

affected:

X O&M Specifications

Other comments: 第

3.4 Message type

The message type IE and its use are defined in TS 24.007. Table 3.1 defines the value part of the message type IE used in the supplementary service protocol.

Table 3.1: Message types

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Message types |
|---|---|---|---|---|---|---|---|------------------------------|
| Х | Х | 1 | 0 | | | | | Clearing messages: |
| | | | | 1 | 0 | 1 | 0 | - RELEASE COMPLETE |
| х | х | 1 | 1 | | | | | Miscellaneous message group: |
| | | | | 1 | 0 | 1 | 0 | - FACILITY |
| | | | | 1 | 0 | 1 | 1 | - REGISTER |
| | | | | | | | | |

For messages transmitted via CS domain the following applies:

When the radio connection started with a core network node of earlier than R99, bit 8 shall be set to 0 and bit 7 is reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See 3GPP TS 24.007 [4].

When the radio connection started with a core network node of R'99 or later, bits 7 and 8 are reserved for the send sequence number in messages sent from the mobile station. In messages sent from the network, bits 7 and 8 are coded with a "0". See 3GPP TS 24.007 [4].

For messages transmitted via PS domain the following applies:

No sequence number shall be used. Bits 7 and 8 shall be are coded with a "0". See 3GPP TS 24.007 [4]. If a sequence number is received on the network side it shall be ignored.