Technical Specification Group Services and System Aspects Meeting #11, Palm Springs, CA, USA, 19-22 March 2001

| Source:       | SA1  |
|---------------|--|
| Title:        | CRs to 22.078 on Corrections of congestion control procedure |
| Document for: | Approval   |
| Agenda Item:  | 7.1.3  |

| Spec   | CR  | Re<br>v | Phas<br>e | Subject                                     |   | Versio<br>n-<br>Curren<br>t | Versio<br>n-New |
|--------|-----|---------|-----------|---|---|-----------------------------|-----------------|
| 22.078 | 085 | 3       | R99       | Corrections of congestion control procedure | F | 3.6.0                       | 3.7.0           |
| 22.078 | 086 | 3       | Rel-4     | Corrections of congestion control procedure | А | 4.1.0                       | 4.2.0           |
| 22.078 | 089 | 2       | Rel-5     | Corrections of congestion control procedure | В | 5.1.0                       | 5.2.0           |

#### 3GPP TSG-SA1 Adhoc CAMEL Austin, USA 30-1st of January 2001

## Tdoc S1C01047

| æ  | 22  | .078                          | CR         | 085                                   | ¥ rev       | <b>3</b> <sup>#</sup> | Current vers    | sion: <u>3.6.0</u> | ж        |  |  |
|--|---|-------------------------------|------------|---------------------------------------|-------------|-----------------------|-----------------|--------------------|----------|--|--|
| For  | For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols. |                               |            |                                       |             |                       |                 |                    |          |  |  |
| Propose  | d change a  | affects: ೫                    | (U)S       | IM M                                  | E/UE        | Radio A               | ccess Networl   | k Core Ne          | etwork X |  |  |
| Title:   | ж   | Corrections                   | s of cong  | gestion cont                          | rol proced  | ure                   |                 |                    |          |  |  |
| Source:  | ж   | SA1                           |            |                                       |             |                       |                 |                    |          |  |  |
| Work ite   | m code: ₩   | CAMEL ph                      | ase3       |                                       |             |                       | <i>Date:</i> ೫  | 06/02/01           |          |  |  |
| Categor  | <i>y:</i> ж   | F (non cr                     | itical cha | ange agreed                           | by consce   | encius)               | Release: ೫      | REL99              |          |  |  |
| Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5 |   |                               |            |                                       |             |                       |                 |                    |          |  |  |
| Reason   | for change  | e: ೫ Alignn                   | nent of th | e phase3 con                          | gestion con | trol proce            | dure with stage | 2                  |          |  |  |
| Summar   | ry of chang   | <b>le:</b> # 1. Add<br>2. Cor |            |                                       | -           |                       | O and GPRS      |                    |          |  |  |
| Consequ<br>not appr  | uences if<br>oved:  | # Possib                      | le misunc  | lerstanding o                         | f the conge | stion contr           | ol procedure    |                    |          |  |  |
| Clauses  | affected:   | ដ <mark>§17</mark>            |            |                                       |             |                       |                 |                    |          |  |  |
| Other sp<br>affected   |   | Tes                           | st specifi | specificatior<br>cations<br>fications | ns ₩        |                       |                 |                    |          |  |  |
| Other co   | omments:  | ж                             |            |                                       |             |                       |                 |                    |          |  |  |

# 17 CSE related congestion control - \$(CAMEL3\$)

It shall be possible for the CSE to <u>ignore or reject suppress</u> either all or some CAMEL interrogations from a V/IPLMN, when the V/IPLMN is the subscriber's HPLMN. It<u>f</u> there is a bilateral agreement the operators <u>canmay</u> also apply congestion control between different networks.

The criterion to suppress CAMEL interrogations is one of:

no criterion or,

- 1. called address or,
- 2. service key or,
- 3. called address and service key or,
- 4. calling address and service key

If contact from the V/IPLMN is not confirmed by the CSE, the V/IPLMN shall proceed in accordance with the Default Call Handling, Default SMS Handling or Default GPRS Handling.

If congestion control <u>prevents</u> contact with the CSE, the V/IPLMN shall proceed in accordance with the Default Call Handling.

<u>Congestion Control is applicable to CAMEL control of circuit switched call. It is not applicable to CAMEL control of GPRS session and PDP context, and to CAMEL control of short message.</u>

### 3GPP TSG-SA1 Adhoc CAMEL Austin, USA 30-1st of January 2001

### *Tdoc* S1C01048

| CHANGE REQUEST   |                     |                         |                                      |             |           |                 |         |                 |            |               |
|--|---------------------|-------------------------|--------------------------------------|-------------|-----------|-----------------|---------|-----------------|------------|---------------|
| ж  | 22.0                | 078                     | CR                                   | 086         | ቻ r       | <sup>ev</sup> 3 | ж       | Current vers    | ion: 4.1.0 | ж             |
| For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.  |                     |                         |                                      |             |           |                 |         |                 |            |               |
| Proposed o   | change a            | affects:                | (U)SIN                               | 1 M         | E/UE      | Ra              | adio Ac | ccess Network   | Core N     | letwork x     |
| Title:   | ж                   | Correctio               | ns of cong                           | gestion cor | ntrol pro | ocedur          | е       |                 |            |               |
| Source:  | ж                   | SA1                     |                                      |             |           |                 |         |                 |            |               |
| Work item  | code: ೫             | CAMEL p                 | hase3                                |             |           |                 |         | Date: ₩         | 06/02/01   |               |
| Category:  | ж                   | Α                       |                                      |             |           |                 |         | Release: ೫      | REL-4      |               |
| Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tetailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5C (Functional modification)REL-5 |                     |                         |                                      |             |           |                 |         |                 |            | )<br>))<br>)) |
| Reason for   | <sup>,</sup> change | : ೫ <mark>Alig</mark> ı | ment of th                           | e phase3 co | ongestic  | on contr        | ol proc | edure with stag | ge2        |               |
| Summary of change: # 1. Addition of Criteria for Congestion Control   2. Congestion control is not applicable to SMSMO and GPRS  |                     |                         |                                      |             |           |                 |         |                 |            |               |
| Consequer<br>not approv  |                     | # Possi                 | ble misuno                           | lerstanding | of the c  | congest         | on con  | trol procedure  |            |               |
| Clauses aff  | fected:             | <mark>೫ §17</mark>      |                                      |             |           |                 |         |                 |            |               |
| Other spec<br>affected:  | S                   | Te                      | ther core<br>est specifi<br>&M Speci |             | ons       | ¥               |         |                 |            |               |
| Other com  | ments:              | ж                       |                                      |             |           |                 |         |                 |            |               |

# 17 CSE related congestion control \$(CAMEL3\$)

It shall be possible for the CSE to <u>drop or rejectsuppress</u> either all or some CAMEL interrogations from a V/IPLMN, when the V/IPLMN is the subscriber's HPLMN. With a bilateral agreement the operators <u>canmay</u> also apply congestion control between different networks.

The criterion to suppress CAMEL interrogations is one of:

no criterion or,

- 1. called address or,
- 2. service key or,
- 3. called address and service key or,
- 4. calling address and service key.

In the case where the contact from the V/IPLMN is not confirmed by the CSE, the V/IPLMN shall proceed in accordance with the Default Call Handling, Default SMS Handling or Default Session Handling.

In the case where the congestion control <u>prevents</u> the contact to the CSE, the V/IPLMN shall proceed in accordance to the Default Call Handling.

<u>Congestion Control is applicable to CAMEL control of circuit switched call. It is not applicable to CAMEL control of GPRS session and PDP context, and CAMEL control of short message.</u>

### 3GPP TSG-SA1 Adhoc CAMEL Austin, USA 30-1st of January 2001

### *Tdoc* S1C01046

| CHANGE REQUEST  |                    |                                       |                  |            |                |                |                   |                       |  |  |
|---|--------------------|---------------------------------------|------------------|------------|----------------|----------------|-------------------|-----------------------|--|--|
| æ   | 22.078             | CR                                    | <b>089</b> *     | rev        | 2 <sup>೫</sup> | Current versi  | ion: <u>5.1.0</u> | ж                     |  |  |
| For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.   |                    |                                       |                  |            |                |                |                   |                       |  |  |
| Proposed ch   | ange affect        | t <b>s:</b>                           | M ME/U           | E F        | Radio Ac       | cess Network   | Core Ne           | etwork <mark>x</mark> |  |  |
| Title:  | ដ <mark>Cor</mark> | rections of con                       | gestion contro   | l procedu  | ire            |                |                   |                       |  |  |
| Source:   | <mark>ដ SA</mark>  | 1                                     |                  |            |                |                |                   |                       |  |  |
| Work item co  | ode: # CA          | MEL phase4                            |                  |            |                | Date: ೫        | 06/02/2001        |                       |  |  |
| Category:   | ж <mark>В</mark>   |                                       |                  |            |                | Release: ೫     | REL05             |                       |  |  |
| Use one of the following categories:Use one of the following releases:F (essential correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (Addition of feature),R97(Release 1997)C (Functional modification of feature)R98(Release 1998)D (Editorial modification)R99(Release 1999)Detailed explanations of the above categories canREL-4(Release 4)be found in 3GPP TR 21.900.REL-5(Release 5) |                    |                                       |                  |            |                |                |                   |                       |  |  |
| Reason for c  | hange:             | Alignment of th                       | ne phase4 conge  | estion con | trol proce     | dure           |                   |                       |  |  |
| Reason for change: # Alignment of the phase4 congestion control procedure   Summary of change: # 1. Addition of the criteria description Congestion Control   2. Corrections  |                    |                                       |                  |            |                |                |                   |                       |  |  |
| Consequence<br>not approved   |                    | Possible misun                        | derstanding of t | he conges  | tion cont      | rol procedure. |                   |                       |  |  |
| Clauses affe  | cted: ೫            | §17                                   |                  |            |                |                |                   |                       |  |  |
| Other specs<br>affected:  | ¥                  | Other core<br>Test specif<br>O&M Spec |                  | X          |                |                |                   |                       |  |  |
| Other comme   | ents: ೫            |                                       |                  |            |                |                |                   |                       |  |  |

## 17 CSE related congestion control

It shall be possible for the CSE to drop or reject <u>suppress</u> either all or some CAMEL interrogations from a V/IPLMN, when the V/IPLMN is the subscriber's HPLMN. With a bilateral agreement the operators <u>canmay</u> also apply congestion control between different networks.

The criterion to suppress CAMEL interrogations is one of:

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- 3. called address and service key or,
- 4. calling address and service key

In the case where the contact from the V/IPLMN is not confirmed by the CSE, the V/IPLMN shall proceed in accordance with the Default Call Handling, Default SMS Handling or Default Session Handling.

In the case where the congestion control <u>prevents</u> the contact to the CSE, the V/IPLMN shall proceed in accordance to the Default Call Handling.

<u>Congestion Control is applicable to CAMEL control of circuit switched call</u>. It is not applicable to CAMEL control of <u>GPRS session and PDP context</u>, and to <u>CAMEL control of short message</u>.