

November 23-26, 2004

Shenzhen, China

3GPP TSG-CN WG3 Meeting #34
Seoul, KOREA. 15th to 19th November 2004.

N3-040884

Title: LS on CN3 impacts on Early IMS Security mechanisms

Source: CN3

To: SA3

Cc: CN

Contact Person:

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Attachments: N3-040881 ñ Account Request for Early IMS security, N3-040882 ñ Disconnect Request for Early IMS security.

1. Overall Description:

CN3 discussed and considered as technically correct 2 CRs on aspects of early IMS systems. CN3 has identified a number of impacts on the GGSN inter-actions defined in 3GPP TS 29.061. These have been documented in the attached contributions, N3-040881 and N3-040882.

CN3 was not able to decide where best to document the information included in the above documents. Whilst the information is relevant to GGSN inter-actions as part of the IMS clause of TS 29.061 and so could be incorporated in this specification, it seemed inappropriate to do this when the intention of Early IMS Security is to be something that is used early in IMS deployment, whilst TS 29.061 is a normative specification. Alternatively, the information could be included in TR 33.878. This may seem appropriate and would result in the full detail of the Early IMS Security implementation being held in a single document, if a similar approach were adopted by other groups handling stage 3 details.

CN3 has a preference for the inclusion of this information in TR33.878, but asks SA3 to decide where the documentation of GGSN inter-action impacts as a result of Early IMS Security is best addressed.

2. Actions:

To SA3 group.

ACTION: CN3 asks SA3 to consider the information within N3-040881 and N3-040882 and either to include it within TR33.878 or inform CN3 that the content of N3-040881, N3-040882 should be added to TS 29.061.

3. Date of Next CN4 Meetings:

CN3#35 14th - 18th February 2004 Sydney, AUSTRALIA

CN3#36 25th - 29th April 2004 Cancun, MEXICO

Seoul, Korea. 15th - 19th November 2004.

CR-Form-v7.1

CHANGE REQUEST

⌘ **TS 29.061** **CR 135** ⌘ rev **3** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: | UICC apps ME Radio Access Network Core Network

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|---|---|---|--------------|
| Title: | ⌘ Account request for early IMS security. | | |
| Source: | ⌘ mmO2 | | |
| Work item code: | ⌘ TEI6 | Date: | ⌘ 15/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-6 |
| Use <i>one</i> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 . | | Use <i>one</i> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) | |

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| Reason for change: | ⌘ SA3 is currently defining procedures for Early IMS security. This requires specific usage of the Radius Accounting Requests for inter-action with the IMS core. Currently most of the parameters are optional, the information to be passed as part of the Radius requests needs to be clarified. |
| Summary of change: | ⌘ A sub section to the IMS specific procedures is added to define GGSN behaviour for early IMS authentication. |
| Consequences if not approved: | ⌘ Information to be passed to IMS core will not be defined and stage 3 will not be aligned to stage 2. |

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|------------------------------|--|---|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--|---|
| Clauses affected: | ⌘ Section 13.a2.2 | | | | | | | | | | |
| Other specs affected: | <table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> | Y | N | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other core specifications Test specifications O&M Specifications | ⌘ |
| Y | N | | | | | | | | | | |
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| Other comments: | ⌘ | | | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

13bba.2.2.4 Radius Accounting requests for Early IMS authentication.

When receiving an Activate PDP Context Request message, based on operator policy, a GGSN supporting early IMS security shall send an Accounting-Request START message to a AAA server attached to the HSS. The message shall include the mandatory fields defined in section 16.4.3 and the UE's IP address, MSISDN, IMSI.

- Seoul, Korea. 15th - 19th November 2004.

CR-Form-v7.1

CHANGE REQUEST

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|---|------------------|---------------|---|-----|----------|---|------------------|--------------|---|
| ⌘ | TS 29.061 | CR 136 | ⌘ | rev | 3 | ⌘ | Current version: | 6.2.0 | ⌘ |
|---|------------------|---------------|---|-----|----------|---|------------------|--------------|---|

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: | UICC apps | ME | Radio Access Network | Core Network

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|------------------------|---|-----------------|---|
| Title: | ⌘ Disconnect request for early IMS security. | | |
| Source: | ⌘ mmO2 | | |
| Work item code: | ⌘ TEI6 | Date: | ⌘ 15/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-6 |
| | <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 . | | <i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) |

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| Reason for change: | ⌘ SA3 is currently defining procedures for Early IMS security. This requires specific usage of the Radius Disconnect Request for inter-action with the IMS core. Radius disconnect could be used by operators to tear down PDP contexts when the user is de-registered. |
| Summary of change: | ⌘ A sub clause to the IMS specific procedures is added to define the GGSN behaviour for early IMS authentication. |
| Consequences if not approved: | ⌘ The HSS will not be able to tear down the PDP context if the user is de-registered. |

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|------------------------------|--|---------------------|---|--------------------------|-------------------------------------|---------------------------|---|
| Clauses affected: | ⌘ Section 13.a2.2 | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> | Y | N | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other core specifications | ⌘ |
| Y | N | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | |
| | | Test specifications | | | | | |
| | | O&M Specifications | | | | | |
| Other comments: | ⌘ | | | | | | |

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

13a.2.2.5 Radius Disconnect requests for Early IMS authentication.

When receiving a Radius Disconnect Request, as defined in section 16.4.9, from the AAA server attached to the HSS, a GGSN with Early IMS security enabled by operator configuration shall follow the AAA initiated PDP context termination procedure described in section 16.3.4.choosing the option of deleting the PDP context.