

## CHANGE REQUEST

⌘ **33.203 CR CRNum** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

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

<b>Title:</b>	⌘ Indication in the UE that the SA is no longer active in P-CSCF		
<b>Source:</b>	⌘ Ericsson, Hutchison 3G		
<b>Work item code:</b>	⌘ IMS-ASEC <span style="float: right;"><b>Date:</b> ⌘ 26/09/2002</span>		
<b>Category:</b>	⌘ <b>F</b> <span style="float: right;"><b>Release:</b> ⌘ Rel-5</span>		
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><i>Use one of the following categories:</i></p> <p><b>F</b> (correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (addition of feature),  <b>C</b> (functional modification of feature)  <b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> </td> <td style="width: 50%; vertical-align: top;"> <p><i>Use one of the following releases:</i></p> <p>2 (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)</p> </td> </tr> </table>	<p><i>Use one of the following categories:</i></p> <p><b>F</b> (correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (addition of feature),  <b>C</b> (functional modification of feature)  <b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p><i>Use one of the following releases:</i></p> <p>2 (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)</p>
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<b>Reason for change:</b>	⌘ One of the requirements in chapter 7.4 states that:  <p style="text-align: center;"><i>“In particular, if the UE has an indication that the SA is no longer active at the P-CSCF side, it shall send an unprotected REGISTER message.”</i></p> <p>This requirement could be misinterpreted as the UE can receive an explicit indication from the P-CSCF, that a SA is no longer active in the P-CSCF. This was not the intention with the requirement though and therefore is it proposed to clarify it.</p>
<b>Summary of change:</b>	⌘ The sentence discussed above is clarified to say that the UE after receiving no response to several protected messages, then the UE can assume that the SA is no longer active in the P-CSCF and therefore send an unprotected REGISTER message.
<b>Consequences if not approved:</b>	⌘ The current sentence in chapter 7.4 discussed above could be misinterpreted

<b>Clauses affected:</b>	⌘ 7.4																								
<b>Other specs affected:</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Y</td> <td style="width: 10%; text-align: center;">N</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Other core specifications</td> <td>⌘</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>O&amp;M Specifications</td> <td></td> <td></td> </tr> </table>		Y	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘			<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test specifications				<input type="checkbox"/>	<input checked="" type="checkbox"/>	O&M Specifications		
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<b>Other comments:</b>	⌘																								

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.

## 7.4 Authenticated re-registration

Every registration that includes a user authentication attempt produces new security associations. If the authentication is successful, then these new security associations shall replace the previous ones. This clause describes how the UE and P-CSCF handle this replacement and which SAs to apply to which message.

If the UE has an already active security association, then it shall use this to protect the REGISTER message. If the S-CSCF is notified by the P-CSCF that the REGISTER message from the UE was integrity-protected it may decide not to authenticate the user by means of the AKA protocol. However, the UE may send unprotected REGISTER messages at any time. In this case, the S-CSCF shall authenticate the user by means of the AKA protocol. In particular, if the UE considers the SA no longer active at the P-CSCF after receiving no response to several protected messages ~~has an indication that the SA is no longer active at the P-CSCF side, it~~ then the UE shall send an unprotected REGISTER message.

Security associations may be unidirectional or bi-directional. This clause assumes that security associations are unidirectional, as this is the general case. For IP layer SAs, the lifetime mentioned in the following clauses is the lifetime held at the application layer. Furthermore deleting an SA means deleting the SA from both the application and IPsec layer. The message numbers, e.g. SM1, used in the following clauses relate to the message flow given in section 6.1.1.