3GPP TSG SA WG3 Security — S3#23

14 - 17 May 2002, Victoria, Canada

S3-020293

CR-Form-v5

CHANGE REQUEST

| ⌘ | **33.203** CR | ⌘ **rev** | **-** | ⌘ | Current version: | **5.1.0** | ⌘ |

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network **X**

Title: ⌘	Integrity protection indicator	
Source: ⌘	Hutchison 3G UK	
Work item code: ⌘		*Date:* ⌘ 09/05/02
Category: ⌘ **F**		*Release:* ⌘ Rel-5

Use *one* 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 *one* of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change: ⌘	The exact use of the integrity protection indicator has not be described yet.	
Summary of change: ⌘	Describes the conditions under which the P-CSCF informs the S-CSCF that integrity protection was applied to a REGISTER request	
Consequences if not approved: ⌘	The S-CSCF uses the integrity protection indicator to decide whether to challenge a registration or not. Without the text the indicator could be implemented in different ways, which would mean the S-CSCF is not making a consistent choice on whether to authenticate the subscriber or not. This could introduce problem if a message got lost in a previous registration attempt.	

Clauses affected: ⌘	6.1.5	
Other specs affected: ⌘	☐ Other core specifications ⌘	
	☐ Test specifications	
	☐ O&M Specifications	
Other comments: ⌘		

6.1.5   Integrity protection indicator

In order to decide whether a REGISTER request from the UE needs to be authenticated, the S-CSCF needs to know about the integrity protection applied to the message. The P-CSCF attaches an indication to the REGISTER request to inform the S-CSCF that the message was integrity protected if

-    the P-CSCF receives a REGISTER containing an authentication response and the message is protected with the SA created during this authentication procedure ; or

-    the P-CSCF receives a REGISTER not containing an authentication response and the message is protected with the SA created by latest successful authentication (from the P-CSCF perspective).

For all other REGISTER requests the P-CSCF attaches an indication that the REGISTER request was not integrity protected or ensures that there is no indication about integrity protection in the message.