
Source: SA WG3
Title: CR to 33.203: Integrity protection indicator (Rel-5)
Document for: Approval
Agenda Item: 7.3.3

SA doc#	Spec	CR	R	Phase	Subject	Cat	Current Version	WI	SA WG3 doc#
SP-020349	33.203	006		Rel-5	Integrity protection indicator	F	5.1.0	IMS-ASEC	S3-020293

14 - 17 May 2002, Victoria, Canada

CR-Form-v5	
CHANGE REQUEST	
⌘ 33.203 CR 006 ⌘ 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

Title:	⌘ Integrity protection indicator		
Source:	⌘ SA WG3		
Work item code:	⌘ IMS-ASEC	Date:	⌘ 09/05/02
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> 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 <u>one</u> 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:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> 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.