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Technical Specification Group Services and System Aspects Meeting #18, New Orleans, USA, 9-12 December 2002

Source: SA WG3

Title: 1 CR to 33.203 (Rel-5): Clean up one Editor's note in 33.203

Document for: Approval

Agenda Item: 7.3.3

SA doc#	Spec	CR	R	Phase	Subject		Current Version		SA WG3 doc#
SP-020713	33.203	027		Rel-5	Clean up one Editor's note in 33.203	F	5.3.0	IMS-ASEC	S3-020559

3GPP TSG-SA3 Meeting #25 Munich, Germany, October 8-11, 2002

CHANGE REQUEST										
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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										
Title:	Clean u	ıp one Edi	tor's note i	n 33.203						
Source: #	SA WG	3								
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Summary of change:

Delete the above mentioned Editor's note.

Consequences if # There will still be a Editor's note in the approved spec.

not approvea:	
Clauses affected:	第 6.4
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications
Other comments:	*

6.4 Hiding mechanisms

The Hiding Mechanism is optional for implementation. All I-CSCFs in the HN shall share the same encryption and decryption key Kv. If the mechanism is used and the operator policy states that the topology shall be hidden the I-CSCF shall encrypt the hiding information elements when the I-CSCF forwards SIP Request or Response messages outside the hiding network's domain. The hiding information elements are entries in SIP headers, such as Via, Record-Route, Route and Path, which contain addresses of SIP proxies in hiding network. When I-CSCF receives a SIP Request or Response message from outside the hiding network's domain, the I-CSCF shall decrypt those information elements that were encrypted by I-CSCF in this hiding network domain.

The purpose of encryption in network hiding is to protect the identities of the SIP proxies and the topology of the hiding network. Therefore, an encryption algorithm in confidentiality mode shall be used. The network hiding mechanism will not address the issues of authentication and integrity protection of SIP headers. The AES in CBC mode with 128-bit block and 128-bit key shall be used as the encryption algorithm for network hiding. In the CBC mode under a given key, if a fixed IV is used to encrypt two same plaintexts, then the ciphertext blocks will also be equal. This is undesirable for network hiding. Therefore, random IV shall be used for each encryption. The same IV is required to decrypt the information. The IV shall be included in the same SIP header that includes the encrypted information.

