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

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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 X												
Title: 第	Adding requirement to provide mandatory support for 3DES encryption in NDS/IP. Remove AES references and dependencies.											
Source: #	SA V	VG3										
Work item code: ₩	SEC	-NDS-	IP						Date: 8	€ 08/	10/2002	
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Other comments:	#											

5.3.3 Support of ESP encryption transforms

IPsec offers a fairly wide set of confidentiality transforms. The transforms that compliant IPsec implementations are required to support are the ESP_NULL and the ESP_DES transforms. However, the Data Encryption Standard (DES) transform is no longer considered to be sufficiently strong in terms of cryptographic strength. This is also noted by IESG in a note in RFC-2407 [18] to the effect that the ESP_DES transform is likely to be deprecated as a mandatory transform in the near future. A new Advanced Encryption Standard (AES) is being standardized to replace the aging DES.

It is therefore explicitly noted that for use in NDS/IP, the ESP_DES transform shall not be used and instead it shall be mandatory to support the ESP_3DESAES transform.

Editor's Note: The AES transforms/modes have not yet been finalized; this subclause will be updated when the AES transforms/modes are available.

5.3.4 Support of ESP authentication transforms

The transforms that compliant IPsec implementation is required to support are the ESP_NULL, the ESP_HMAC_MD5 and the ESP_HMAC_SHA-1 transforms. For NDS/IP traffic ESP shall always be used to provide integrity, data origin authentication, and anti-replay services, thus the ESP_NULL authentication algorithm is explicitly not allowed for use. ESP shall support ESP_HMAC_SHA-1 and AES MAC algorithms in NDS/IP.

Editor's Note: The AES transforms/modes have not yet been finalized; this subclause will be updated when the AES transforms/modes are available.