## Tdoc #S3-040928

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## \*\*\*\*\*\*\*\*\*\* START OF CHANGE \*\*\*\*\*\*\*\*\*

## 6.6 Profile of IPSec ESP

IPSec ESP, as specified in RFC 2406 [30], contains a number of options and extensions, where some are not needed for the purposes of this specification and others are required. IPSec ESP is therefore profiled in this section. When IPSec ESP is used in the context of this specification the profile specified in this section shall be supported. Rules and recommendations in ref. [31] and [33] have been followed, as in case of IKEv2.

First cryptographic suite:

- Confidentiality: 3DES in CBC mode;
- Integrity: HMAC-SHA1-96. The key length is 160 bits, according to RFC 2104 [34] and RFC 2404 [35];
- Tunnel mode must be used.

Second cryptographic suite:

- Confidentiality: AES with 128-bit keys in CBC mode. The key length is set to 128 bits;
- Integrity: AES-XCBC-MAC-96;
- Tunnel mode must be used.

It shall be possible to turn off security protection (confidentiality and/or integrity, but not both) in the tunnel (for example high trust-between the 3GPP network operator and the WLAN access provider). This means that transform IDs for encryption ENCR\_NULL and NONE for integrity shall be allowed to negotiate, as specified in ref. [29]

For NAT traversal, the UDP encapsulation for ESP tunnel mode specified in [32] shall be supported.

\*\*\*\*\*\*\*\*\*\* END OF CHANGE \*\*\*\*\*\*\*\*\*