# 3 - 6 July, 2001, Newbury, UK

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# 5.5.2 Protected payload

# 5.5.2.1 Protection Mode 0

Protection Mode 0 offers no protection at all. Therefore, the protected payload of Secured MAP messages in protection mode 0 is identical to the original MAP message payload in cleartext.

For cases where Protection Mode 0 is to be used the protection level will be identical to the original unprotected MAP message. It is therefore allowed as an implementation option to let Protection Mode 0 operations be sent without the security header.

# 5.5.2.2 Protection Mode 1

The protected payload of Secured MAP messages in protection mode 1 takes the following form:

# Cleartext|| f7(Security Header||Cleartext)

where "Cleartext" is the payload of the original MAP message in cleartext. Therefore, in Protection Mode 1 the protected payload is a concatenation of the following information elements:

- Cleartext
- Message authentication code (MAC-M) calculated by the function f7

Authentication of origin and message integrity are achieved by applying the message authentication code (MAC-M) function f7 with the integrity key defined by the security association to the concatenation of Security Header and Cleartext. The MAC-M length shall be 32 bits.

# 5.5.2.3 Protection Mode 2

The protected payload of Secured MAP Messages in protection mode 2 takes the following form:

# f6( Cleartext) || f7(Security Header|| f6( Cleartext))

where "Cleartext" is the original MAP message payload in cleartext. Confidentiality is achieved by encrypting Cleartext using the encryption function f6 with the confidentiality key defined by the security association and the initialisation vector (IV). Authentication of origin and integrity are achieved by applying the message authentication code (MAC-M) function f7 with the integrity key defined by the security association to the concatenation of Security Header and ciphertext. The MAC-M length shall be 32 bits. The length of the ciphertext is the same as the length of the cleartext.