Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Empty security suite definition**
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Re:	Sponsor Ballot on IEEE P802.16-2004/Cor1/D3
Abstract	Add an empty security suite to allow SA with no security that make it possible to negotiate un protected SF
Purpose	Allow unprotected SF
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Empty security suite definition
Avishay Shraga

1.   Motivation

The standard allows unprotected transport but the way to negotiate it is not well defined.
Each SF must be linked to a Security Association thus it is "protected" and it looks like the only reasonable way to create an unprotected SF under these definitions is to define an Empty security suite.

2.   Proposed solution

Define an Empty security suite which does not include either of the 3 parameters, when the SS gets a SA like that it does not have to manage a TEK FSM for this SA..

3.   Changes summary

Change 11.9.14 Cryptographic suite

Table 377 – TEK encryption algorithm identifiers

Value	Description
0	No Tek Encryption Algorithm
1	3-DES EDE with 128-bit key
2	RSA with 1024-bit key
3	ECB mode AES with 128-bit key
4	AES Key Wrap with 128-bit key
5-255	Reserved

Add to Table 378—Allowed cryptographic suites

Value	Description
0x000000	No data encryption, no data authentication & No Tek Encryption