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Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >			
Title	SA-TEK Update TLV definition			
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Source(s)	Avishay Shraga	Avishay.shraga@intel.com		
	Yigal Eliaspur	Voice: +972-54-5551063		
	Intel corp.	Yigal.Eliaspur@intel.com		
		Voice: +972-54-7884877		
Re:	IEEE P802.16e/D8			
Abstract	In session 35, SA-TEK update TLV was accepted but not inserted			
Purpose	Insert SA-TEK Update TLV to the standard as accepted in session #35			
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SA-TEK Update TLV definition

Avishay Shraga

1. Motivation

SA-TEK update TLV is used in SA-TEK-Response message.

It was defined and accepted in session #35 but was not inserted, it must be defined in the standard to use SA-TEK Response message.

2. Proposed solution

Insert SA-TEK update TLV to the standard *Remove SA-TEK UPDATE message with has no meening.*

3. Changes summary

Insert a new section to section 11.9

11.9.X SA TEK Update

This field provides a translation table that allows an MSS to update its security associations and TEK pairs so that it may continue security service after a hand-over to a new serving BS.

<u>Name</u>	Length (1 byte)	<u>Value</u>
SA_TEK_Update	<u>Variabl</u>	<u>Compound</u>
	<u>e</u>	

The following TLV values may appear in each SA TEK Update TLV, dependent on the situation it is used

Name	Т У р е	Length (1 byte)	<u>Value</u>
SA_TEK_Update Type	2 2	<u>1</u>	1 : TEK parameters for a SA 2 : GTEK parametes for a GSA 3 to 255: Reserved, Not used
New SAID	$\frac{1}{2}$	<u>2</u>	New SAID after hand- over to new BS
Old SAID	1 2	<u>2</u>	Old SAID before hand- over from old BS. In case of initial network entry, old SAID is same as new SAID

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Old TEK Parameters	$\frac{1}{3}$	variabl e	"Older" generation of key parameters relevant to SAID. The Compound field contains the sub- attributes as defined in Table 370.
New TEK/GTEK	<u>1</u>	<u>variabl</u>	"Newer" generation of
-Parameters	3	<u>e</u>	key parameters relevant to (G)SAID. The Compound field contains the sub-attributes as defined in Table 370.
GKEK Parameters	1 3	<u>Variab</u> <u>le</u>	GKEK and its lifetime for the corresponding GTEK pair if this TLV is for a GSA

Remove section 6.3.2.3.9.20 SA-TEK UPDATE