Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**	
Title	**Authorization Policy Support Negotiation**	
Data Submitted	**2004-06-25**	
Source(s)	Seokheon Cho Chulsik Yoon SungCheol Chang, ETRI 161, Gajeong-dong, Yuseong-Gu, Daejeon, 305-350, Korea David Johnston, Intel Phillip Barber, BMT Dongkie Lee, SK Telecom Junhyuk Song, Samsung Young-man Park, Korea Telecom	Voice: +82-42-860-5524 Fax: +82-42-861-1966 chosh@etri.re.kr dj.johnston@intel.com pbarber@broadbandmobiletech.com galahad@sktelecom.com junhyuk.song@samsung.com youngman@kt.co.kr
Re:	TGe	
Abstract	PKM version negotiation in the SS basic capabilities negotiation procedure	
Purpose	The document is submitted for review by PKMv2 Working Group and/or by 802.16 Working Group members	
Notice		
Release		
Patent Policy and Procedures		

Authorization Policy Support Negotiation
Seokheon Cho, Chulsik Yoon, and SungCheol Chang
ETRI
David Johnston
Intel
Phillip Barber
BMT
Dongkie Lee
SK Telecom
Junhyuk Song
Samsung
Young-man Park
Korea Telecom

Introduction

The PKM version should be negotiated by introducing new PKM version 2.

In addition to the PKM version, since the EAP based authentication was already accepted as an authorization protocol, it is proper that the EAP based authentication as an authorization policy should be allocated

We propose the PKM version and authentication are allocated in the parameter, "Authorization Policy Support," used in the SBC-REQ and SBC-RSP messages. A method of negotiating PKM version and authentication is proposed as follows.

Proposed changes to IEEE P802.16e/D3-May 2004

6.3.2.3.23 SS Basic Capability Request (SBC-REQ) message
[Change and Insert in 6.3.2.3.23]

Authorization Policy Support ~~(see 11.7.8.7)~~ **(see 11.3.2.11)**

6.3.2.3.24 SS Basic Capability Response (SBC-RSP) message
[Change and Insert in 6.3.2.3.24]

Authorization Policy Support ~~(see 11.7.8.7)~~ **(see 11.3.2.11)**

11.3.2.11 Authorization Policy Support
[Change the table]

Type	Length	Value	Scope
5.25	1	~~Bit# 0: IEEE 80.216 essential privacy (Legacy PKM) – default~~ ~~Bit# 1-7: Reserved for open privacy. Set to 0.~~ Bit# 0: PKM version 1 with RSA Bit# 1: PKM version 1 with EAP Bit# 2: Reserved. Bit# 3: PKM version 2 with RSA Bit# 4: PKM version 2 with EAP Bit# 5: PKM version 2 with PHY frame number in authentication tuple Bit# 6: Reserved. Bit# 7: Reserved.	~~REG-REQ~~ SBC-REQ ~~(see 6.4.2.3.23)~~ (see 6.3.2.3.23) ~~REG-RSP~~ SBC-RSP ~~(see 6.4.2.3.24)~~ (see 6.3.2.3.24)

11.4.2 Common encodings
[Add to Table 295a]

Table 295a-MSS Capability encodings

Type	Parameters
25	Authorization Policy Support

11.8.3 Authorization Policy Support
[Change the table]

Type	Length	Value	Scope
5.25	1	Bit# 0: IEEE 80.216 essential privacy (Legacy PKM) - default Bit# 1-7: Reserved for open privacy. Set to 0. Bit# 0: PKM version 1 with RSA Bit# 1: PKM version 1 with EAP Bit# 2: Reserved. Bit# 3: PKM version 2 with RSA Bit# 4: PKM version 2 with EAP Bit# 5: PKM version 2 with PHY frame number in authentication tuple Bit# 6: Reserved. Bit# 7: Reserved.	REG-REQ SBC-REQ (see 6.4.2.3.23) (see 6.3.2.3.23) REG-RSP SBC-RSP (see 6.4.2.3.24) (see 6.3.2.3.24)