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Title	**PKMv2 Preauthentication**
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Abstract	**PKMv2 Preauthentication**
Purpose	Acceptance into TGe Draft document
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PKMv2 Preauthentication

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1   Problem Statement and Remedy

PKMv2 includes PKM code values to facilitate Preauthentication to a neighbor Base Station in conjunction with a AAA server using a mechanism called "proactive key distribution"[1].

However, the commonly deployed AAA protocols (RADIUS, DIAMETER et. al) do not tsupport this mode of key distribution. And 802.e16 does not attempt define such a protocol.

Analysis makes clear that Preauthentication is primarily a Network-level (rather than air-link level) function. Preauthentication – like other AAA aspects - should be addressed in 802.16g.

2   Discussion

3   Specific text changes

[**Replace section 7.7 Pre-authentication**:]

In anticipation of a handover, an MSS may seek to use pre-authentication to facilitate an accelerated reentry at a particular target BS.

Pre-authentication results in establishment of an Authorization Key (with a unique AK Name) in the MSS and target BS. The specific mechanism for Pre-authentication is out of the scope of this specification.

[**delete 6.3.2.3.9.12]**

[**delete 6.3.2.3.9.13]**

[**delete 6.3.2.3.9.14]**

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[1] Cf. http://www.cs.umd.edu/~mhshin/paper/Proactive_Key_Dist_NG.pdf