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KARP KMP-Using IKEv2 with TCP-AO

draft-chunduri-karp-using-ikev2-with-tcp-ao-02

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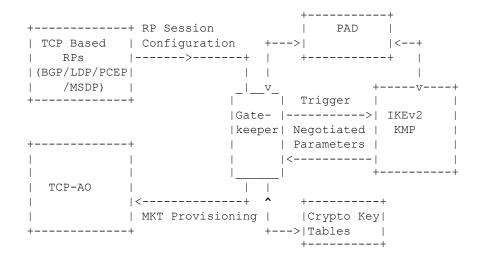


Summary of changes in "02" version:

- Extended to capture Gatekeeper interaction with
 - PAD
 - Crypto Key Tables
- Other Security databases not relevant to KARP
- Few other Minor Modifications

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Proposal:



KARP KMP: Using IKEv2 with TCP-AO

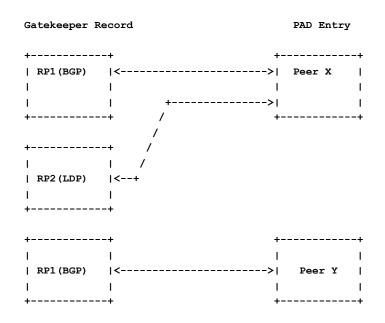
draft-chunduri-karp-using-ikev2-with-tcp-ao-02 captures:

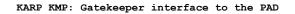
- TCP-based RP interface to GK
- KMP interface to GK
- TCP-AO interface to GK
- Interface to PAD and Crypto Key Tables (more details in the draft)

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GK Interaction With PAD:

- PAD Contains all information related to Authenticate the Peer
- Used for creating CHILD_SAs at KMP
- Multiple GK Records can point to same PAD Entry (for the same DIP used by multiple RPs)
 - Multiple MKTs or CHILD_SAs corresponding to each RP
 - Provisioning change at RP SHOULD lead to re-negotiation of MKT
 - Provisioning change at PAD entry SHOULD re-authenticate the peer and all MKTs need to be re-negotiated





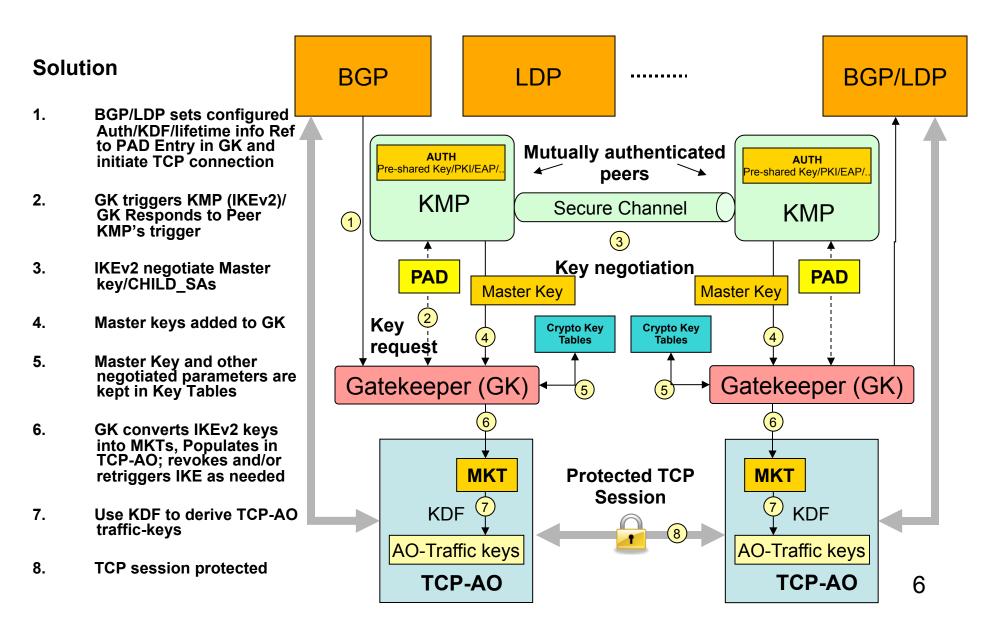


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GK Interaction With Crypto Key Tables:

- KMP negotiated parameters are kept in the crypto key table database as specified in [ietf-karp-cryoto-key-table]
- The database is characterized as a table, where each row represents a single long- lived symmetric cryptographic key or Master key
- This may facilitate
 - External source other than Gatekeeper to push the Master Keys/ MKTs
 - Access to the Master Keys and Security parameters other than TCP-AO

Using IKEv2 with TCP-AO (cont.)





Would like to request for WG adoption.

Questions & Comments?

Thank You!