

# GDOI Update Draft

Sheela Rowles

IETF 73 Minneapolis

November 19, 2008

# GDOI delete capability

- RFC 3547 specifies that keys can be deleted by sending an ISAKMP Delete payload as part of a GDOI GROUPKEY-PUSH message specifying the spi of the key to be deleted.
- There may be circumstances where the GCKS wants to start over with a clean slate.

# Add flexibility to delete all the policy

- No longer confident about the integrity of the group: send SPI = 0 in DELETE payload.

Action	DOI	SPI	Protocol_id
Delete TEK with 'valid TEK SPI	GDOI	valid TEK SPI	TEK
Delete KEK with 'valid KEK SPI'	GDOI	Valid KEK SPI	0
Delete All TEK(s)	GDOI	0	TEK
Delete All KEK(s)	GDOI	0	0

# Remove PFS

- AES keys are much more common
- Need for PFS is an overstated threat for IKE phase 1 keys.
  - Need to take out verbage in update draft
  - Need to clarify in update draft that section 3.2.1 (PFS) of RFC3547 is not needed.
  - Can deprecate the KEK attribute KE\_OAKLEY\_GROUP

# Other changes

- Due to draft-ietf-msec-ipsec-extensions-09.txt
- TEK attribute
- KEK attributes

# New IPsec SA Attribute

- The GDOI update draft needs to be updated to reflect the new SA attribute representing directionality in an SPD entry.
  - Swap address & ports from section 4.1.1 of multicast extensions draft.
  - Following will be specified:
    - Default behavior will be to swap and require that the attribute is sent for ‘no swap’.

# New Group Attributes

- A couple of new group attributes need to be specified based on the extensions draft to improve interoperability. (section 4.2.1)
  - ATD: Activation Time Delay
    - specific amount of time GDOI holds onto the key before installing to ipsec.
  - DTD: Deactivation Time Delay
    - specific amount of time before deactivating a key.

# Updates will be in next version of draft

- Waiting for the '<http://www.ietf.org/internet-drafts/draft-ietf-msec-ipsec-extensions-09.txt>' draft to close.
- Currently sitting in the editor's queue