

# Karp Operations Model

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IETF 85 Atlanta, USA 5 Nov. 2012

# Recovering from Equipment Failure

- When equipment fails it needs to be replaced and configured
- Security configuration and keys make this more tricky
- Active discussion topic in SIDR (draft-ietf-sidr-rtr-keying)

# Key Recovery

- SIDR document proposes keys SHOULD be stored exported from routers
- Could be stored in central config system; could be stored on USB keys or smart cards near router
- Consider implications with hardware security modules or more trusted systems

# BGP Sessions and Peer Groups

- Comment from wes George
- Implementations group configuration together for BGP; peer group for IGP, or for redundant connections
- Transition difficulty to TCP-AO or AKM

# The Problem

- A large number of devices share security configuration
- What protocol to use, etc
- Key table doesn't help; at wrong /level
- Transition appears to require flag day

# Possible Solutions

- Support maintaining both TCP-AO and TCP-MD5 security parameters
- Provide ways to trigger graceful restart to set up new security session
- Negotiation question