

# The Next Changes to 802.1X

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# Goal

- Make changes in 802.1X to support LinkSec
- Make changes in 802.1X to support shared media networks
  - 802.3, 802.17, etc.
- Make changes in 802.1X to improve security of EAPOL

# LinkSec and Shared Media Needs

- Discovery
  - Initiator (Supplicant) needs to discover Responder (Authenticator)
- Single transport in a peered environment
  - single state machine handling both Supplicant and Authenticator functions based on policy

# Improving Security of EAPOL

- Fix state machine of exchanges to minimize DOS
- Make security Mandatory for Keying material to
  - Authenticate LOGOFF
  - Authenticate REAUTH