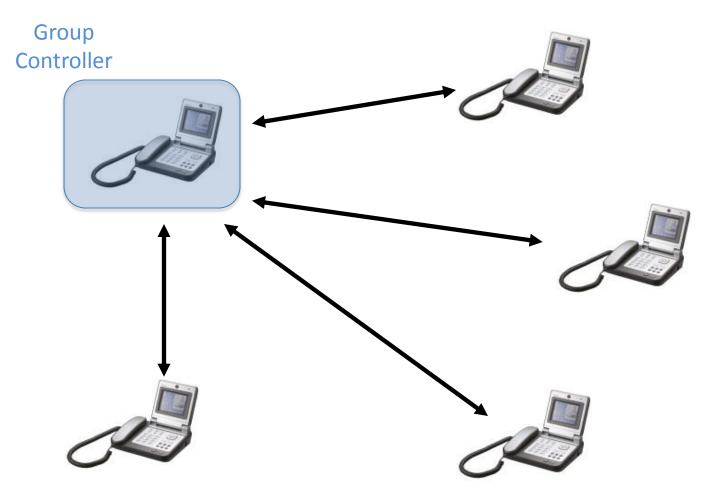
Encrypted Key Transport for SRTP draft-mcgrew-srtp-ekt-06

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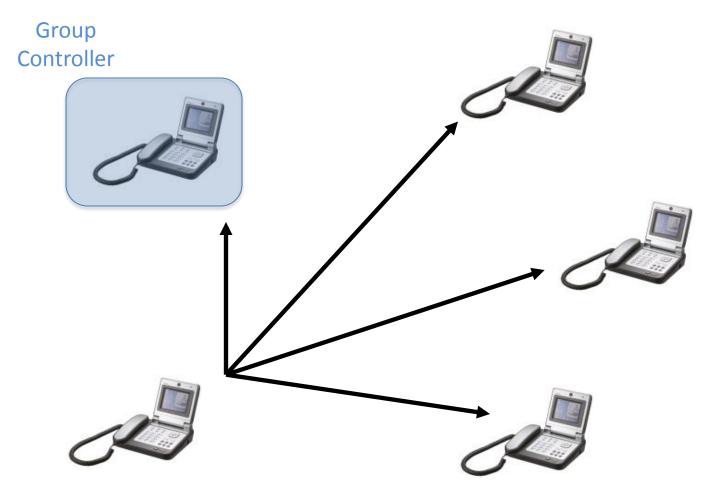
Encrypted Key Transport for SRTP

- In-band key transport protected by separate RTP session-level key
 - Conveys SRTP master key and ROC
- Layer of indirection between Key Management and SRTP
 - Avoids layer violation
 - Key management should be oblivious to RTP Sources, SSRCs, Seq Nums, Rollover Counter
 - Indirection is important for large groups

1. DTLS-SRTP-KTR (1:1)



2. EKT (1:Many)



Looking back and forward

- EKT defined 2006-2007
 - Expired pending implementation and interest
 - We now have both!
- EKT is only way to avoid layer violations
 - Essential for scalability to large groups

EKT Changes

- Now fully described using DTLS-SRTP

 DTLS-SRTP has better security than SDESC
 DTLS-SRTP is IETF standard for SRTP keying
- EKT in an SRTP packet no longer an Appendix
 - Provides key and data for new speaker
 - Fate-sharing of key and data encrypted with that key
- WG item?