Connection-Oriented Media Transport in SDP

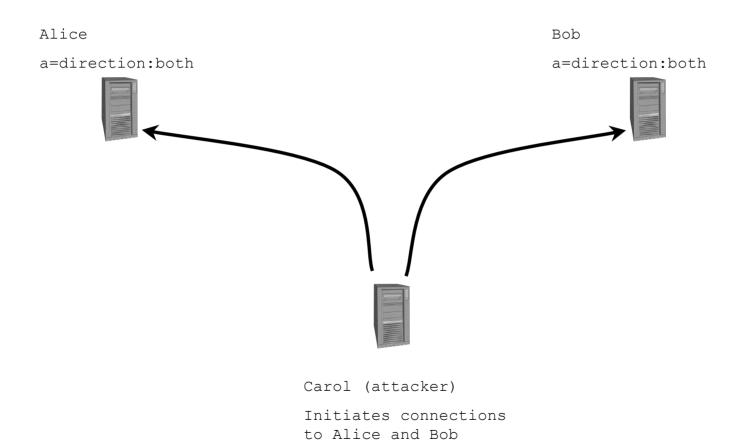
draft-ietf-mmusic-sdp-comedia-05.txt

David Yon

Changes made to comedia-05

- Removed source address/port per resolution of the MMUSIC chairs
- Removed current security considerations section in prep for -06

The issue raised by comedia-fix



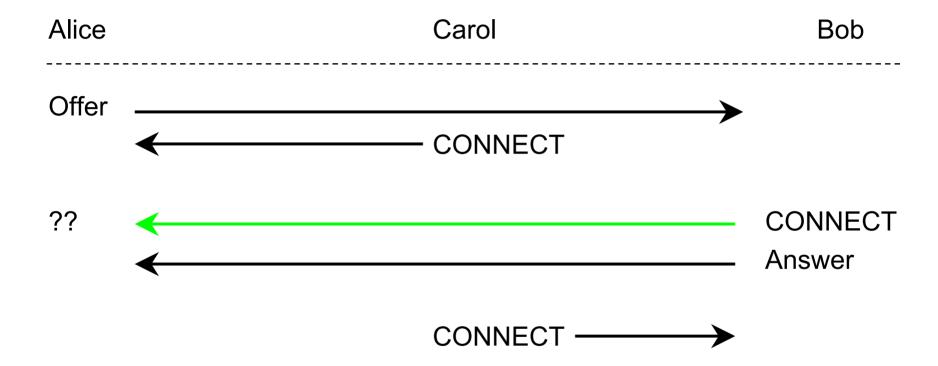
David Yon - Dialout.Net, Inc.

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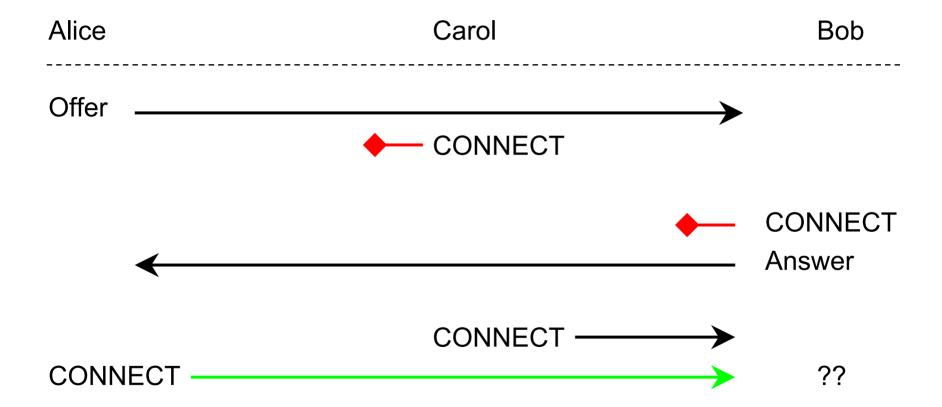
Defenses Against Hijacking

- The most robust defense is secure media streams
- Attack can be downgraded to Denial of Service
 - Endpoints MUST follow rules in Section 4 (b) and (c)
 - Duplicate incoming connections act as a tripwire
 - Extend listener lifetime to detect duplicate connections
 - Works for both TCP and bidirectional RTP/AVP

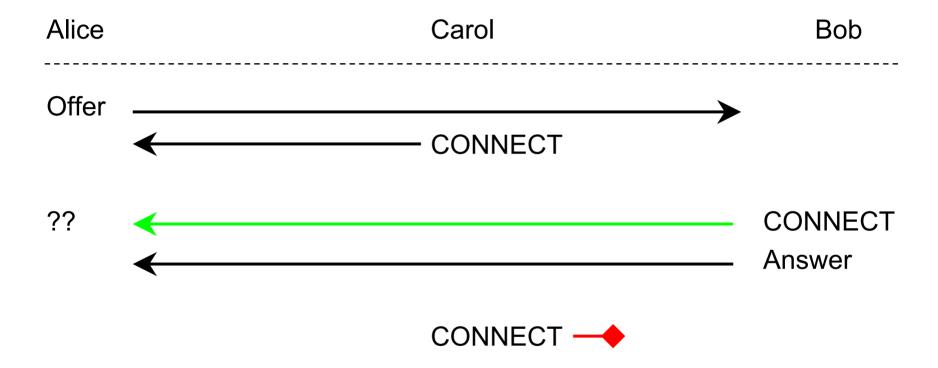
Scenario 1: Full Connectivity



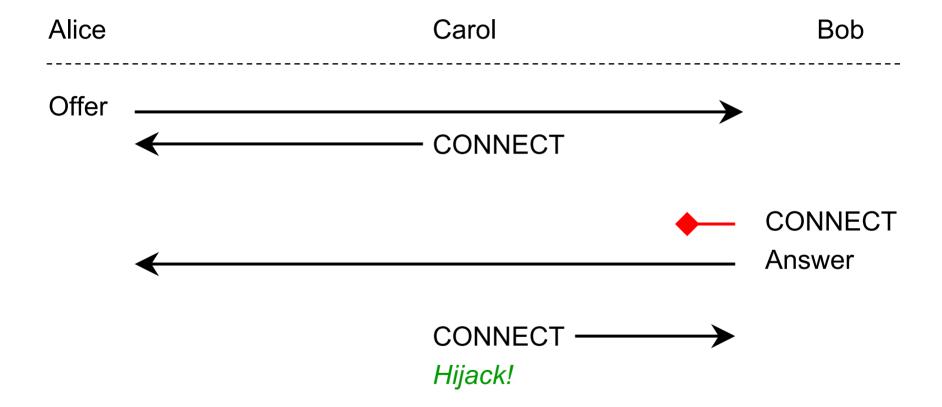
Scenario 2: Bob/Carol can't connect to Alice



Scenario 3: Alice/Carol can't connect to Bob



Scenario 4: Bob can't connect to Alice



Mitigating Scenario 4

- Correlates to a common client/server topology:
 - Client (Alice) is behind NAT/Firewall
 - Server (Bob) is on public Internet
- Bob may therefore know he's fully routable
 - So don't offer "both", offer "passive"
 - This prevents Alice from accepting Carol's connection

Next Steps

- Recent RTSP issues on the list, need to come to closure
- Publish comedia-06 with expanded security section
- IETF Last Call? (please?)