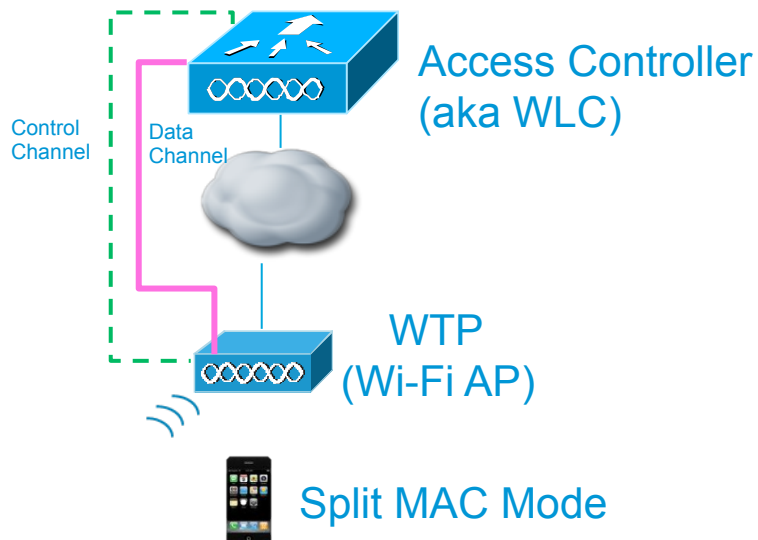
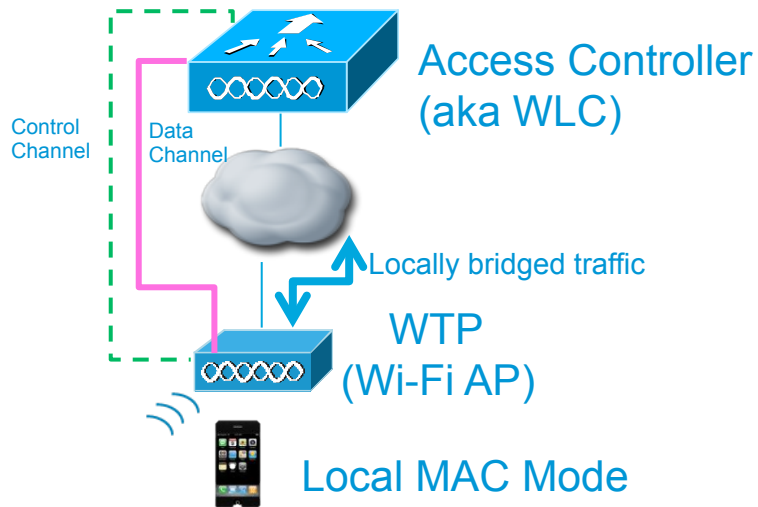


Separation of CAPWAP Control and Data Plane: draft-zhang-opsawg-capwap-cds-00

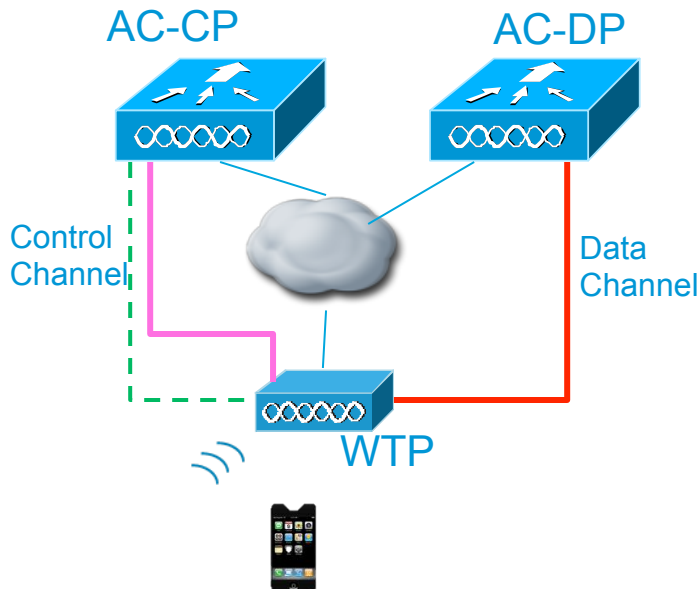
What is the problem



- CAPWAP used widely in WLAN deployments
- Two modes
 - Local MAC mode
 - Split MAC mode
- Mainly interested in Split MAC mode
- CAPWAP assumes control and data plane are co-located on the Access Controller
- No mechanism to specify different IP address for data tunnel to carry user traffic
- No way to split CP and DP in Split-MAC mode

Proposed Solution

- Split AC (access controller) into two parts
 - AC-CP (Control Plane)
 - AC-DP (Data Plane)
- WTP created two sets of tunnels
 1. Control and Data Channel to AC-CP
 2. Data Channel to AC-DP
- AC-CP handles
 - CAPWAP Control Channel: Control/Management of AP
 - CAPWAP Data Channel: User generated Management traffic (security, action frames, etc)
- AC-DP handles
 - CAPWAP Data Channel:
 - User generated traffic (non – management traffic)



Next Steps

- Adopt draft draft-zhang-opsawg-capwap-cds-00 as working group document