

IEEE 802.11 MAC Profile for CAPWAP: draft-ietf-opsawg-capwap-hybridmac-02

Rajesh S Pazhyannur (presenter)

Problem Statement

Functions		Split MAC
Function	Distribution Service	AC
	Integration Service	AC
	Beacon Generation	WTP
	Probe	WTP
	Power Mgmt/Packet Buffering	WTP
	Fragmentation/Defragmentation	WTP/AC
	Assoc/Diassoc/Reassoc	AC
IEEE 802.11 QoS	Classifying`	AC
	Scheduling	WTP/AC
	Queuing	WTP
IEEE 802.11 RSN (WPA2)	IEEE 802.1X/EWTP	AC
	RSNA Key Management	AC
	IEEE 802.11 Encryption/Decryption	WTP/AC

- Encryption can be done either at WTP or AC
- No way to configure where it should be done.
- Problem arises when AC and WTP from different vendors
- (Fragmentation done where encryption is done)

Updates to Version-01

- Incorporated changes based on last meeting discussion
- Added more descriptive text
- Eliminated profiles for local mode (since there is no ambiguity)
- Created two profiles
 - Split MAC mode with WTP Encryption
 - Split MAC mode with AC Encryption

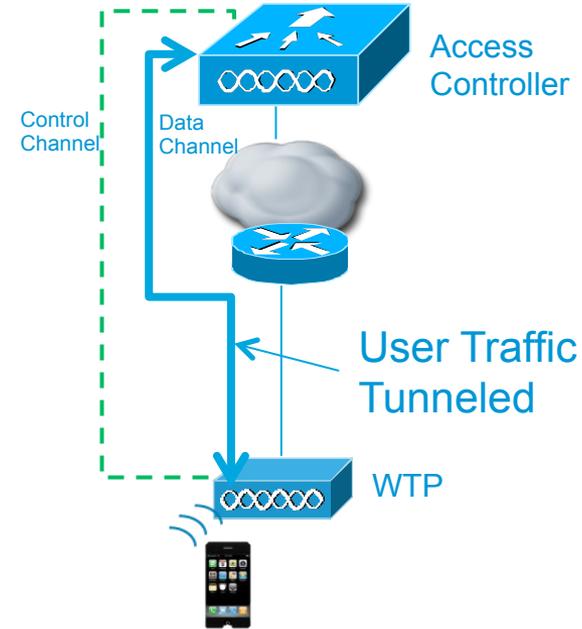
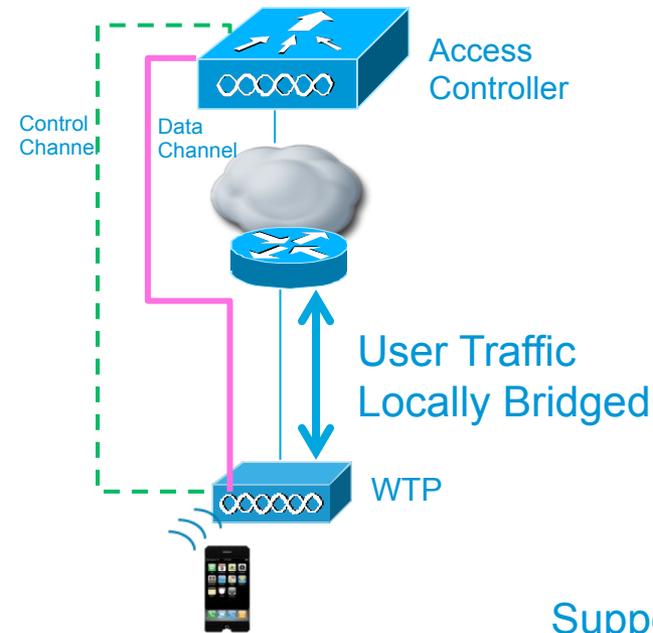
Discussion

- Incorporated changes received on mailer and meeting
- Discovered an error/typo in Table 1 (will fix in next version)
- Seeking LGWC

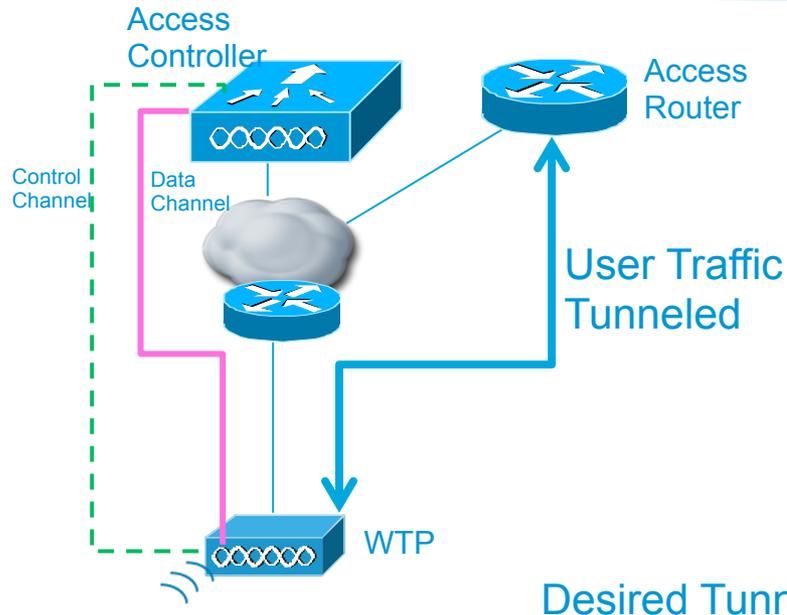
Alternate Tunnel Encapsulation for Data Frames in CAPWAP: draft-zhang-opsawg-capwap-cds-02

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Problem Statement



Supported Tunnel Modes



Desired Tunnel Mode

- Separate Control Plane from Data Plane
- Why Local Bridging is not an option
 - SP may not be same as Access Network Provider
- Extend Local MAC mode
 - CAPWAP Data channel for 802.11 Mgmt frames and security
 - User Traffic tunneled to AR instead of AC
- Multiple Additional Tunnel Encapsulations supported

Updates to version 01

- Added more descriptive text explaining problem statement and solution
- Added new IE to encapsulate tunnel specific parameters like Access Router IP address, etc
- Also explained the connection between this draft and draft-xue-opsawg-capwap-separation-capability-01

Discussion

- Some feedback on mailers from operators (e.g, CMCC, AT&T) on need for it.
- Cisco has running code and plans to release product in May-June timeframe
- This is the third version (second major revision after original submission). Is it on track to get it adopted ?