

No IP
Broadcast
WLC C
WLC A
AP wired A

capwap-discovery_ipv4_primed.pcapng

DHCP Discover

Transaction ID	0x0000140d
IP	0.0.0.0
Client MAC address	84:b2:61:0e:0c:18
Client MAC address	84:b2:61:0e:0c:18
Hostname	AP84b2.610e.0c18

DHCP Offer

Transaction ID	0x0000140d
IP	10.0.41.99
Client MAC address	84:b2:61:0e:0c:18

DHCP Request

Transaction ID	0x0000140d
IP	0.0.0.0
Client MAC address	84:b2:61:0e:0c:18
Client MAC address	84:b2:61:0e:0c:18
Hostname	AP84b2.610e.0c18

DHCP ACK

Transaction ID	0x0000140d
IP	10.0.41.99
Client MAC address	84:b2:61:0e:0c:18

DNS Query

Name	CISCO-CAPWAP-CONTROLLER.lab.local
Type	A (1) (Host Address)

DNS Query

Name	CISCO-CAPWAP-CONTROLLER.lab.local
Type	A (1) (Host Address)

DNS Query

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Type	A (1) (Host Address)

DNS Query

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Type	A (1) (Host Address)

DNS Query

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Type	A (1) (Host Address)

DNS Query

Name	CISCO-CAPWAP-CONTROLLER.lab.local
Type	AAAA (28) (IP6 Address)

DNS Query

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Type	AAAA (28) (IP6 Address)

DNS Query

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Type	AAAA (28) (IP6 Address)

DNS Query

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Type	AAAA (28) (IP6 Address)

DNS Query

💡 DHCP – client obtains IP address after 802.11 association and EAPOL key exchange complete; DORA: Discover→Offer→Request→ACK; in WLAN, DHCP may traverse CAPWAP tunnel to WLC

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Frame 46 | 2017-01-14T13:10:40.197059Z

Frame 47 | 2017-01-14T13:10:40.197476Z

Frame 50 | 2017-01-14T13:10:43.19674Z

Frame 51 | 2017-01-14T13:10:43.197069Z

Frame 52 | 2017-01-14T13:10:46.196812Z

Frame 53 | 2017-01-14T13:10:46.197162Z

Frame 54 | 2017-01-14T13:10:49.196863Z

Frame 55 | 2017-01-14T13:10:49.197235Z

Frame 57 | 2017-01-14T13:10:52.196619Z

Frame 58 | 2017-01-14T13:10:52.196952Z

Frame 60 | 2017-01-14T13:10:55.196689Z

No IP

Broadcast

WLC C

WLC A

AP wired A

Version DTLS 1.0 (0xfeff)

DTLS Application Data (23)

Version DTLS 1.0 (0xfeff)

Epoch 1

Length 1440

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Version DTLS 1.0 (0xfeff)

Epoch 1

Length 1440

uses UDP (not TCP) so it works with CAPWAP's UDP transport

Frame 126 | 2017-01-14T13:11:21.452514Z

Frame 127 | 2017-01-14T13:11:21.454153Z