

roam_intra_wpa2dot1x_wired.pcapng

Probe Request (0x0004)

Dst	84:b2:61:3f:93:10
Src	00:00:00:00:00:00
Seq	0

💡 Probe Request – active scanning: client solicits responses from APs; directed (specific SSID) or wildcard (broadcast SSID); faster than passive scanning (beacon-only)

Frame 2 | 2017-01-18T15:42:52.650188Z

DTLS Application Data (23)

Version	DTLS 1.0 (0xfeff)
Epoch	1
Length	1392

DTLS Application Data (23)

Version	DTLS 1.0 (0xfeff)
Epoch	1
Length	64

Frame 4 | 2017-01-18T15:42:52.650876Z

Reassociation Request (0x0002)

Dst	84:b2:61:24:a2:00
Src	00:56:cd:ee:f1:71
BSS	84:b2:61:24:a2:00
Seq	16
Current AP	84:b2:61:3f:93:10

💡 Reassociation Request – client roams to new AP within same ESS; carries Current AP MAC so new AP can request PMK from old AP (fast roaming) or via RADIUS

Reassociation Response (0x0003)

Dst	00:56:cd:ee:f1:71
Src	84:b2:61:24:a2:00
BSS	84:b2:61:24:a2:00
Seq	0
Status	Successful (0x0000)
AID	0x01c0

💡 Reassociation Response – new AP accepts roaming client; AID may change; PMK transfer via OKC, 802.11r FT, or CCKM enables fast secure roaming without full re-auth

DTLS Application Data (23)

Version	DTLS 1.0 (0xfeff)
Epoch	1
Length	80

Frame 9 | 2017-01-18T15:42:52.722376Z

Data (0x0020)

Dst	84:b2:61:3f:93:10
Src	84:b2:61:3f:93:10
BSS	84:b2:61:3f:93:10
Seq	0

Frame 11 | 2017-01-18T15:42:52.722833Z

DTLS Application Data (23)

Version	DTLS 1.0 (0xfeff)
Epoch	1
Length	80

Frame 12 | 2017-01-18T15:42:52.723236Z

Data (0x0020)

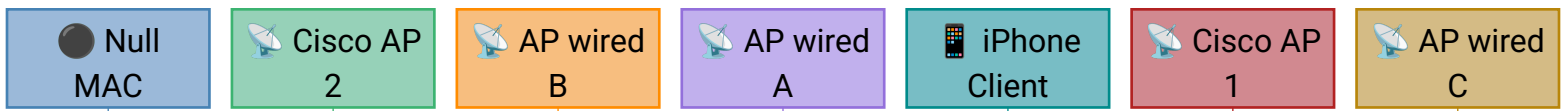
Dst	00:56:cd:ee:f1:71
Src	84:b2:61:24:a2:00
BSS	84:b2:61:24:a2:00
Seq	0

Frame 17 | 2017-01-18T15:42:52.72433Z

Data (0x0020)

Dst	84:b2:61:24:a2:00
Src	00:56:cd:ee:f1:71
BSS	84:b2:61:24:a2:00

Frame 19 | 2017-01-18T15:42:52.740453Z



Seq 0

EAPOL Key

Dst	00:56:cd:ee:f1:71
Src	84:b2:61:24:a2:00
BSS	84:b2:61:24:a2:00
Seq	0
Key Descriptor Type	EAPOL RSN Key (2)
Key Information	0x008a
Key Length	16
Replay Counter	0
WPA Key Nonce	92452bec3439a83fe7f72b4e22e3825d1...

💡 EAPOL 4-Way Handshake – derives PTK from PMK; Msg 1: ANonce, Msg 2: SNonce+MIC, Msg 3: GTK, Msg 4: Confirm; completes encryption key installation

EAPOL Key

Dst	84:b2:61:24:a2:00
Src	00:56:cd:ee:f1:71
BSS	84:b2:61:24:a2:00
Seq	2560
Key Descriptor Type	EAPOL RSN Key (2)
Key Information	0x010a
Key Length	16
Replay Counter	0
WPA Key Nonce	75bfadfd4809bfb4025eed0db4365e4c86...

💡 EAPOL 4-Way Handshake – derives PTK from PMK; Msg 1: ANonce, Msg 2: SNonce+MIC, Msg 3: GTK, Msg 4: Confirm; completes encryption key installation

EAPOL Key

Dst	00:56:cd:ee:f1:71
Src	84:b2:61:24:a2:00
BSS	84:b2:61:24:a2:00
Seq	0
Key Descriptor Type	EAPOL RSN Key (2)
Key Information	0x13ca
Key Length	16
Replay Counter	1
WPA Key Nonce	92452bec3439a83fe7f72b4e22e3825d1...

💡 EAPOL 4-Way Handshake – derives PTK from PMK; Msg 1: ANonce, Msg 2: SNonce+MIC, Msg 3: GTK, Msg 4: Confirm; completes encryption key installation

EAPOL Key

Dst	84:b2:61:24:a2:00
Src	00:56:cd:ee:f1:71
BSS	84:b2:61:24:a2:00
Seq	2816
Key Descriptor Type	EAPOL RSN Key (2)
Key Information	0x030a
Key Length	16
Replay Counter	1
WPA Key Nonce	00000000000000000000000000000000...

💡 EAPOL 4-Way Handshake – derives PTK from PMK; Msg 1: ANonce, Msg 2: SNonce+MIC, Msg 3: GTK, Msg 4: Confirm; completes encryption key installation