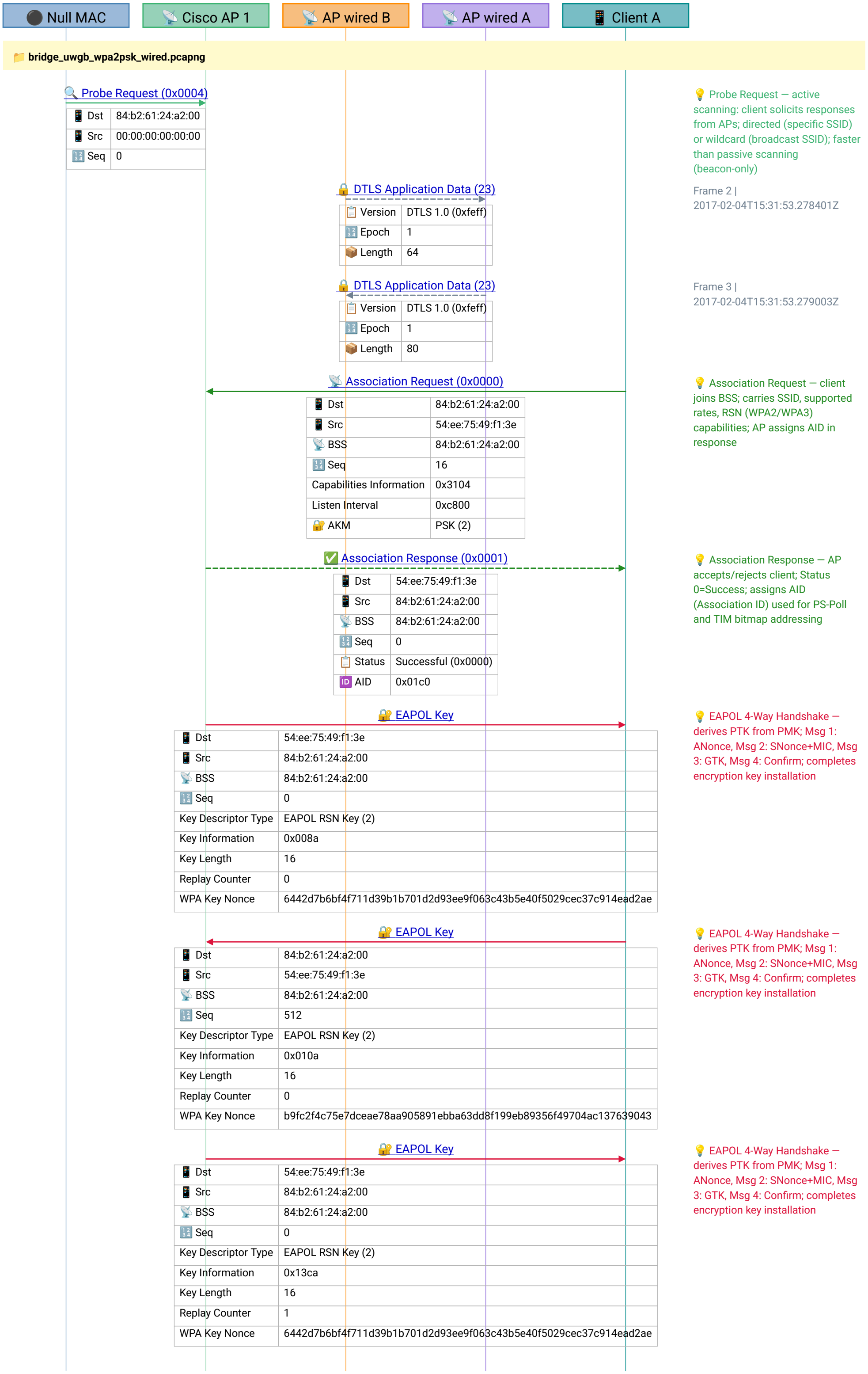
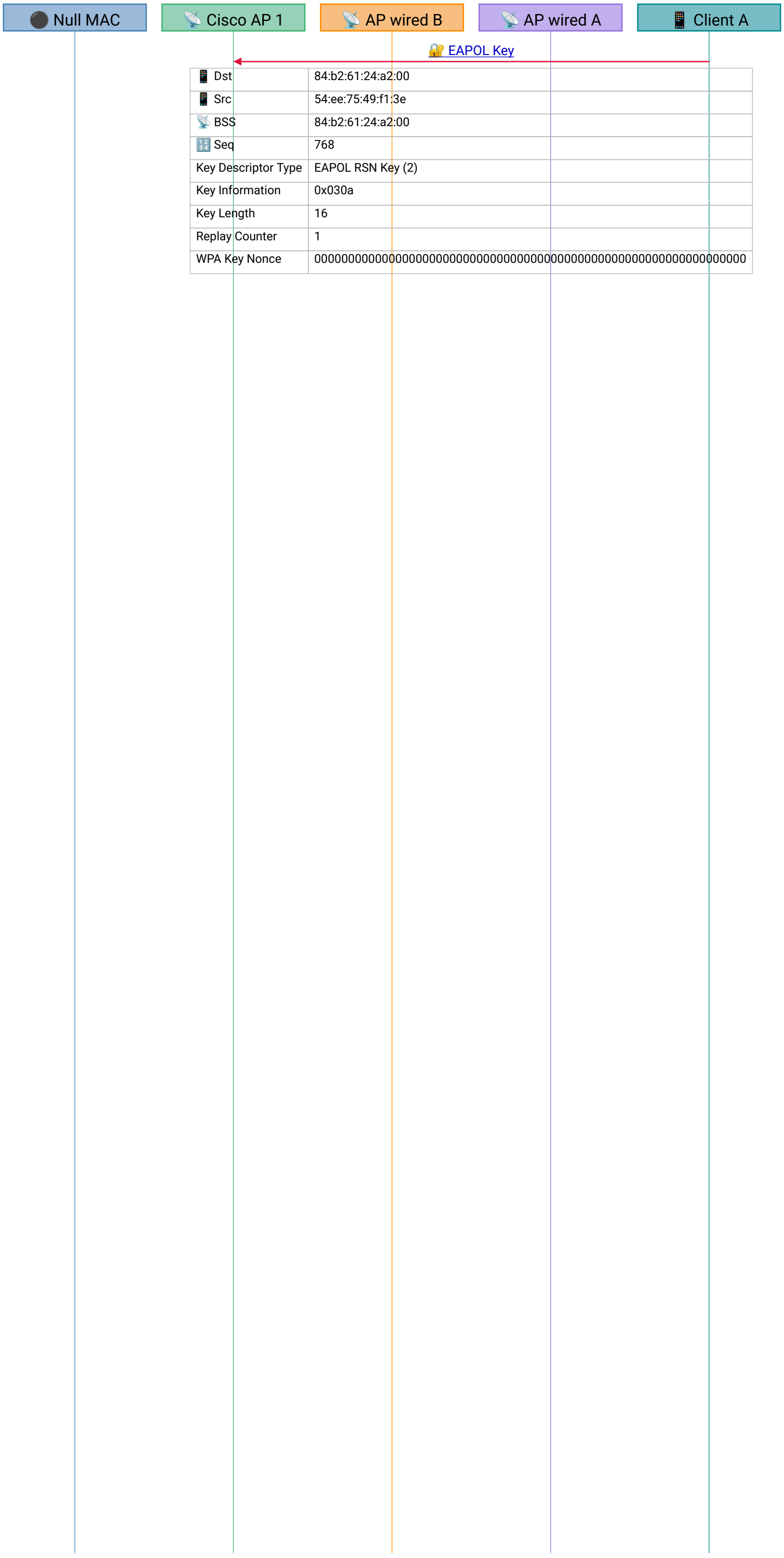

Null MAC
Cisco AP 1
AP wired B
AP wired A
Client A
bridge_uwgb_wpa2psk_wired.pcapng
Probe Request (0x0004)
Dst 84:b2:61:24:a2:00
Src 00:00:00:00:00:00
Seq 0
Probe Request — active scanning: client solicits responses from APs; directed (specific SSID) or wildcard (broadcast SSID); faster than passive scanning (beacon-only)
DTLS Application Data (23)
Version DTLS 1.0 (0xfeff)
Epoch 1
Length 64
Frame 2 | 2017-02-04T15:31:53.278401Z
DTLS Application Data (23)
Version DTLS 1.0 (0xfeff)
Epoch 1
Length 80
Frame 3 | 2017-02-04T15:31:53.279003Z
Association Request (0x0000)
Dst 84:b2:61:24:a2:00
Src 54:ee:75:49:f1:3e
BSS 84:b2:61:24:a2:00
Seq 16
Capabilities Information 0x3104
Listen Interval 0xc800
AKM PSK (2)
Association Request — client joins BSS; carries SSID, supported rates, RSN (WPA2/WPA3) capabilities; AP assigns AID in response
Association Response (0x0001)
Dst 54:ee:75:49:f1:3e
Src 84:b2:61:24:a2:00
BSS 84:b2:61:24:a2:00
Seq 0
Status Successful (0x0000)
AID 0x01c0
Association Response — AP accepts/rejects client; Status 0=Success; assigns AID (Association ID) used for PS-Poll and TIM bitmap addressing
EAPOL Key
Dst 54:ee:75:49:f1:3e
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 6442d7b6bf4f711d39b1b701d2d93ee9f063c43b5e40f5029cec37c914ead2ae
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 54:ee:75:49:f1:3e
BSS 84:b2:61:24:a2:00
Seq 512
Key Descriptor Type EAPOL RSN Key (2)
Key Information 0x010a
Key Length 16
Replay Counter 0
WPA Key Nonce b9fc2f4c75e7dceae78aa905891ebba63dd8f199eb89356f49704ac137639043
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 54:ee:75:49:f1:3e
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 6442d7b6bf4f711d39b1b701d2d93ee9f063c43b5e40f5029cec37c914ead2ae
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



📱 Dst	84:b2:61:24:a2:00
📱 Src	54:ee:75:49:f1:3e
📡 BSS	84:b2:61:24:a2:00
🔢 Seq	768
Key Descriptor Type	EAPOL RSN Key (2)
Key Information	0x030a
Key Length	16
Replay Counter	1
WPA Key Nonce	0000000000000000000000000000000000000000000000000000000000000000

💡 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