Exploring interop_11g_11n_wlan.pcapng

Client K	Server E	Client AB	Broadcast	Client L	Client AC	Client AD	iPhone Client

📁 **interop_11g_11n_wlan.pcapng**

📦 QoS Data (0x0028)

📱 Dst	00:23:5d:c9:5a:c2
📱 Src	00:23:5d:c9:5a:c8
📡 BSS	00:d7:8f:d3:53:d0
🔢 Seq	279
🎯 TID	0
📊 Priority	Best Effort (Best Effort) (0)
📦 Len	36

💡 802.11 QoS Data — TID (Traffic Identifier) maps to WMM Access Category: TID 0-2=Best Effort (AC_BE), 3=Background (AC_BK), 4-5=Video (AC_VI), 6-7=Voice (AC_VO)

✅ ACK (0x001d)

📱 RA	00:d7:8f:d3:53:d0

Frame 2 | 2017-02-28T00:30:37.231852Z

📦 QoS Data (0x0028)

📱 Dst	00:23:5d:c9:5a:c8
📱 Src	00:23:5d:c9:5a:c2
📡 BSS	00:d7:8f:d3:53:d0
🔢 Seq	1699
🎯 TID	0
📊 Priority	Best Effort (Best Effort) (0)
📦 Len	36

💡 802.11 QoS Data — TID (Traffic Identifier) maps to WMM Access Category: TID 0-2=Best Effort (AC_BE), 3=Background (AC_BK), 4-5=Video (AC_VI), 6-7=Voice (AC_VO)

✅ ACK (0x001d)

📱 RA	00:23:5d:c9:5a:c2

Frame 4 | 2017-02-28T00:30:37.237293Z

📡 Beacon frame (0x0008)

📡 BSS	f8:e4:fb:be:37:99
🔢 Seq	761
Beacon Interval	0.102400 [Seconds]
DTIM count	0

💡 Beacon — AP announces its presence at Beacon Interval (usually 100 TU = 102.4ms); carries SSID, supported rates, DTIM count, RSN info; basis for passive scanning

📡 Beacon frame (0x0008)

📡 BSS	00:7f:28:4b:ab:d5
🔢 Seq	3112
Beacon Interval	0.102400 [Seconds]
DTIM count	0

💡 Beacon — AP announces its presence at Beacon Interval (usually 100 TU = 102.4ms); carries SSID, supported rates, DTIM count, RSN info; basis for passive scanning

📡 Beacon frame (0x0008)

💡 Beacon — AP announces its presence at Beacon Interval

Client K | Server E | Client AB | Broadcast | Client L | Client AC | Client AD | iPhone Client

BSS	c8:a7:0a:c2:ae:9c
Seq	2328
Beacon Interval	0.102400 [Seconds]
DTIM count	0

(usually 100 TU = 102.4ms); carries SSID, supported rates, DTIM count, RSN info; basis for passive scanning

Beacon frame (0x0008)

BSS	3c:a8:2a:9d:a7:f8
Seq	167
Beacon Interval	0.102400 [Seconds]
DTIM count	0

💡 Beacon — AP announces its presence at Beacon Interval (usually 100 TU = 102.4ms); carries SSID, supported rates, DTIM count, RSN info; basis for passive scanning

Null function (No data) (0x0024)

Power	STA will stay up
Dst	00:d7:8f:d3:53:d0
Src	00:56:cd:ee:f1:71
BSS	00:d7:8f:d3:53:d0
Seq	454

💡 Null Data — no payload; used for power management signaling: PWR MGT=1 tells AP the client is going to sleep (AP buffers frames); PWR MGT=0 means client is awake

ACK (0x001d)

RA	00:56:cd:ee:f1:71

Frame 10 | 2017-02-28T00:30:37.294708Z

QoS Data (0x0028)

Dst	00:56:cd:ee:f1:71
Src	00:23:5d:c9:5a:c8
BSS	00:d7:8f:d3:53:d0
Seq	1395
TID	0
Priority	Best Effort (Best Effort) (0)
Len	36

💡 802.11 QoS Data — TID (Traffic Identifier) maps to WMM Access Category: TID 0-2=Best Effort (AC_BE), 3=Background (AC_BK), 4-5=Video (AC_VI), 6-7=Voice (AC_VO)

RTS (0x001b)

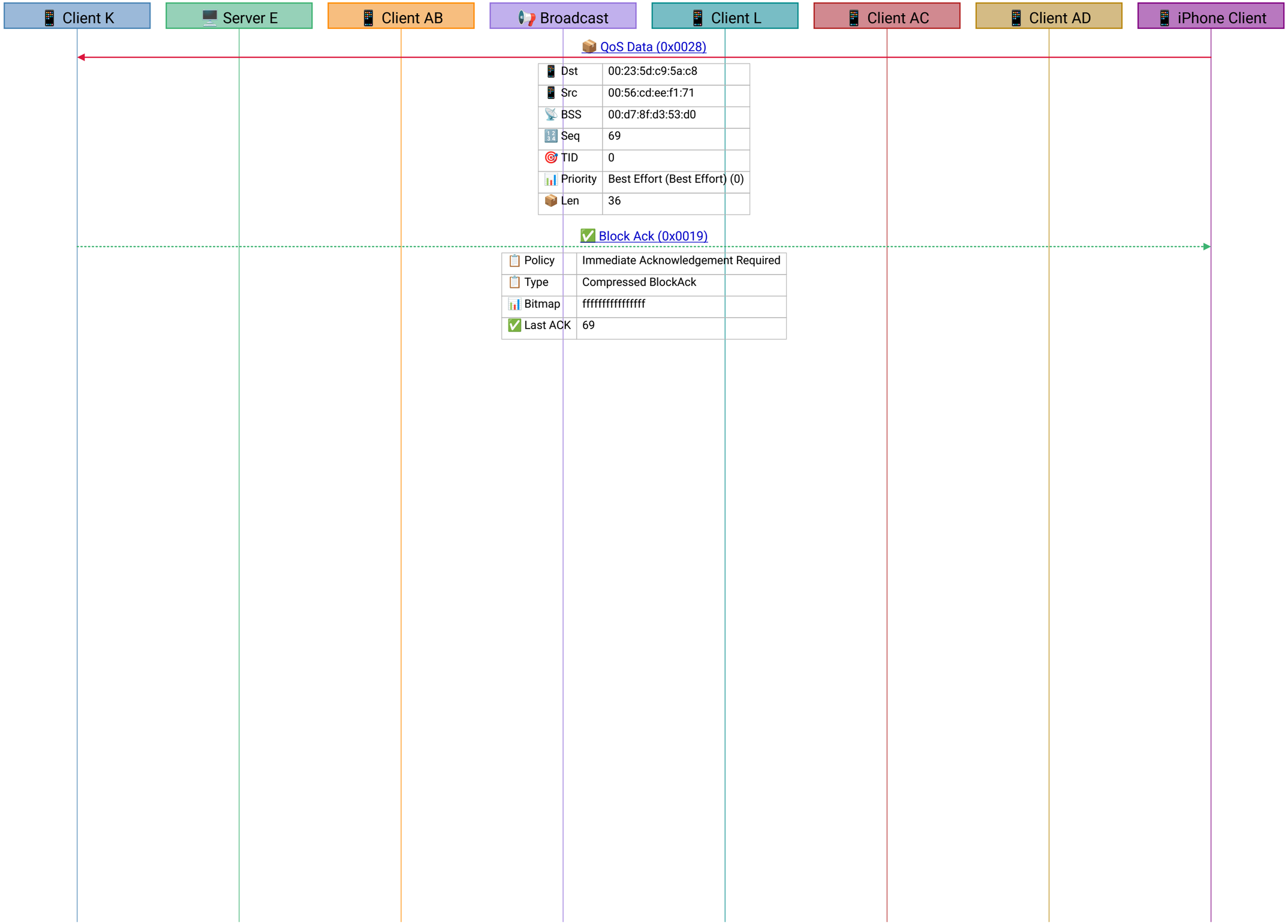
Duration	146 µs

💡 RTS (Request to Send) — collision avoidance for large frames; reserves the medium via NAV (Network Allocation Vector); receiver replies with CTS to grant access

CTS (0x001c)

Duration	106 µs
RA	00:56:cd:ee:f1:71

Frame 14 | 2017-02-28T00:30:37.296881Z


Client K
Server E
Client AB
Broadcast
Client L
Client AC
Client AD
iPhone Client
QoS Data (0x0028)
Dst 00:23:5d:c9:5a:c8
Src 00:56:cd:ee:f1:71
BSS 00:d7:8f:d3:53:d0
Seq 69
TID 0
Priority Best Effort (Best Effort) (0)
Len 36
802.11 QoS Data — TID (Traffic Identifier) maps to WMM Access Category: TID 0-2=Best Effort (AC_BE), 3=Background (AC_BK), 4-5=Video (AC_VI), 6-7=Voice (AC_VO)
Block Ack (0x0019)
Policy Immediate Acknowledgement Required
Type Compressed BlockAck
Bitmap ffffffffffffffff
Last ACK 69
Block Ack — acknowledges multiple MPDUs in a single frame (A-MPDU aggregation); bitmap indicates which sequence numbers were received; improves throughput by reducing per-frame ACK overhead