

**UNITED STATES DISTRICT COURT
DISTRICT OF COLUMBIA**

Kirchner v. Anthropic, PBC - Case No. 1:25-cv-02735-ACR

EXHIBIT D-12: Comcast Injection Point Identification

Case: Kirchner v. Anthropic, PBC (1:25-cv-02735-ACR)

Evidence ID: EVID-20260102-0001

Original Exhibit: X-6_INJECTION_POINT_IDENTIFICATION.md

Date: January 2, 2026

Injection Point

Field	Value
IP Address	68.85.201.221
NetName	JUMPSTART-2
NetRange	68.80.0.0 - 68.87.255.255
Organization	Comcast Cable Communications, LLC (CCCS)
Network Position	Hop 3 from user
One-way Latency	~13ms

Timing Analysis

Observed Packet Timing (Zoho Connection)

39.950138s → SYN sent to Zoho (136.143.189.20)
40.080539s → ACK sent by user

40.106952s ← RST #1 arrives (INJECTED)
 40.106952s ← RST #2 arrives (INJECTED)
 40.106953s ← RST #3 arrives (INJECTED)
 40.188957s ← SYN-ACK arrives (LEGITIMATE)

Round-Trip Calculation

Measurement	Value
User ACK sent	40.080539s
RST arrived	40.106952s
Round-trip to injector	26.4ms
One-way distance	13.2ms

Traceroute Correlation

Hop	IP Address	Time	Owner	Match
1	192.168.1.1	3ms	User Gateway	
2	10.27.35.203	10ms	Comcast Internal	Close
3	68.85.201.221	13ms	Comcast JUMPSTART-2	✓ EXACT
4	96.108.10.53	16ms	Comcast	
5	68.87.177.201	12ms	Comcast	

The 13ms one-way timing matches Hop 3 exactly.

Whois Data

NetRange: 68.80.0.0 - 68.87.255.255
 CIDR: 68.80.0.0/13
 NetName: JUMPSTART-2
 NetHandle: NET-68-80-0-0-1
 Parent: NET68 (NET-68-0-0-0-0)
 NetType: Direct Allocation
 Organization: Comcast Cable Communications, LLC (CCCS)
 RegDate: 2002-01-28
 Updated: 2021-01-25

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Proof Methodology

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1. Timing-Based Location

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The RST packet arrived 26.4ms after the user's ACK. For a round-trip:

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- Outbound (ACK → Injector): ~13ms

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- Inbound (RST ← Injector): ~13ms

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- Total: ~26ms

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2. Traceroute Verification

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Independent traceroute shows Hop 3 (68.85.201.221) at 13ms one-way latency - **exact match** to the calculated injection distance.

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3. RST Arrival Before Server Response

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RST arrived: 40.106952s (156.8ms after SYN)

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SYN-ACK arrived: 40.188957s (238.8ms after SYN)

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RST arrived 82ms BEFORE the legitimate server could respond.

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This is physically impossible without injection from a closer network point.

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Additional Evidence

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Triplicate RST Pattern

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Three RST packets arrived within 1 microsecond:

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40.106952s - RST (seq 49)

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40.106952s - RST (seq 49)

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40.106953s - RST (seq 50)

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This triplicate burst with sequence number guessing (49, 49, 50) is characteristic of **Deep**

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Packet Inspection (DPI) equipment performing TCP RST injection.

Missing TCP Options

Packet Type	TCP Options	TCP Timestamps
Legitimate Zoho	12 bytes	Present
RST Packets	NONE	MISSING

RST packets lack TCP options present in all legitimate traffic, proving they originate from a different source (the DPI equipment, not the actual server).

Conclusion

The RST injection attack originates from IP address 68.85.201.221, which is:

- 1. Owned by Comcast Cable Communications, LLC**
- 2. Part of the JUMPSTART-2 network allocation**
- 3. Located at Hop 3** in the network path (13ms from user)
- 4. Operating DPI equipment** capable of:
 - Real-time TCP state tracking
 - Microsecond-precision packet injection
 - TTL spoofing to match legitimate traffic
 - Triplicate RST bursts with sequence guessing

Verification Commands

```
# Verify traceroute timing
traceroute -n -q 3 136.143.189.20

# Verify WHOIS data
whois 68.85.201.221
```

```
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110 # Verify RST timing in capture
111 tshark -r session_20260102_123704.pcapng \
112     -Y 'ip.addr==136.143.189.20' \
113     -T fields -e frame.time_relative -e tcp.flags -e ip.src
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```

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116 **Exhibit Created:** January 2, 2026

117 **Classification:** CRITICAL - ATTACK SOURCE IDENTIFIED

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120 **END OF EXHIBIT X-6**

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