

MASQUE CONNECT-UDP Bind

[draft-ietf-masque-connect-udp-listen](#)

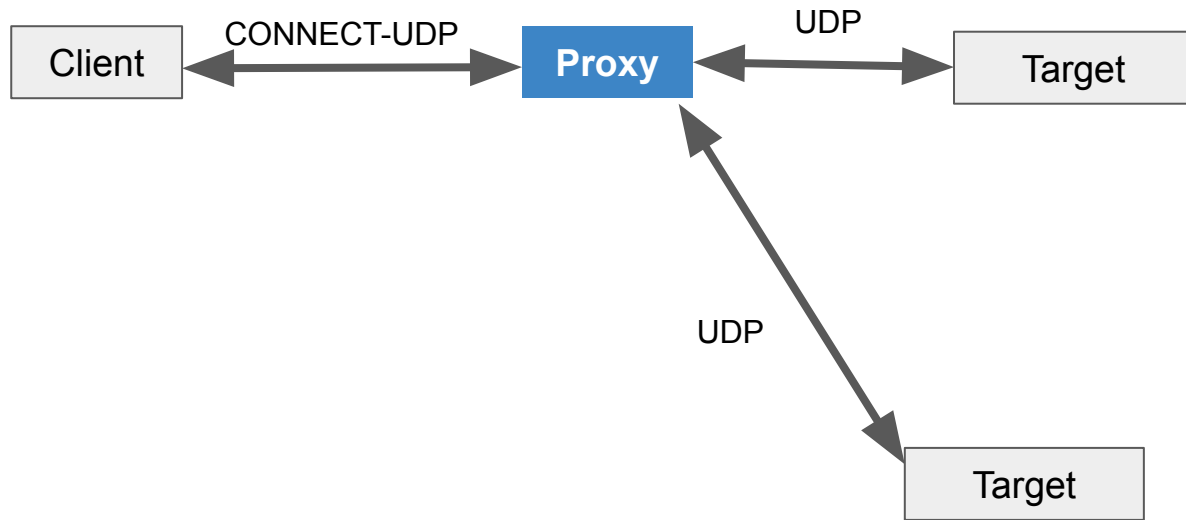
IETF 121 – Dublin– 2024-11-06

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CONNECT-UDP - with Binding support

The client can open UDP port(s) on the proxy to receive traffic from multiple targets



REQUEST:

HEADERS

```
:method = CONNECT
:protocol = connect-udp
:scheme = https
:path = /masque/udp/*/*/
:authority = proxy.org
capsule-protocol = ?1
connect-udp-bind = ?1
```

RESPONSE:

HEADERS

```
:status = 200
capsule-protocol = ?1
connect-udp-bind = ?1
proxy-public-address = 192.188.0.2:8211,\
[2001:db8::1234]:54321
```

Opening and Closing Contexts

Exchange Capsules to create or release Contexts.

COMPRESSION_ASSIGN IP Version = 4/6:

Use that context only for the specified IP address. Omit IP:Port in datagrams

COMPRESSION_ASSIGN IP Version = 0:

Proxy forwards all packets on that context and keeps IP:Port per datagram

```
CAPSULE COMPRESSION_ASSIGN {      CAPSULE COMPRESSION_CLOSE {
  Context ID (i),                  Context ID (i),
  IP Version (8),                  }
  IP Address (32..128),
  UDP Port (16),
}
```

Changes since last time

Minor editorial improvements:

Removed redundant Context ID discussion [#27](#)

Updated example in Appendix A [#25](#)

Fixed security considerations to match the latest draft specifications [#26](#)

Implementations

We (Google) implemented the latest connect-udp-bind spec at the Hackathon

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IETF 120 – Vancouver – 2024-07-23

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