

MASQUE CONNECT-UDP Bind

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

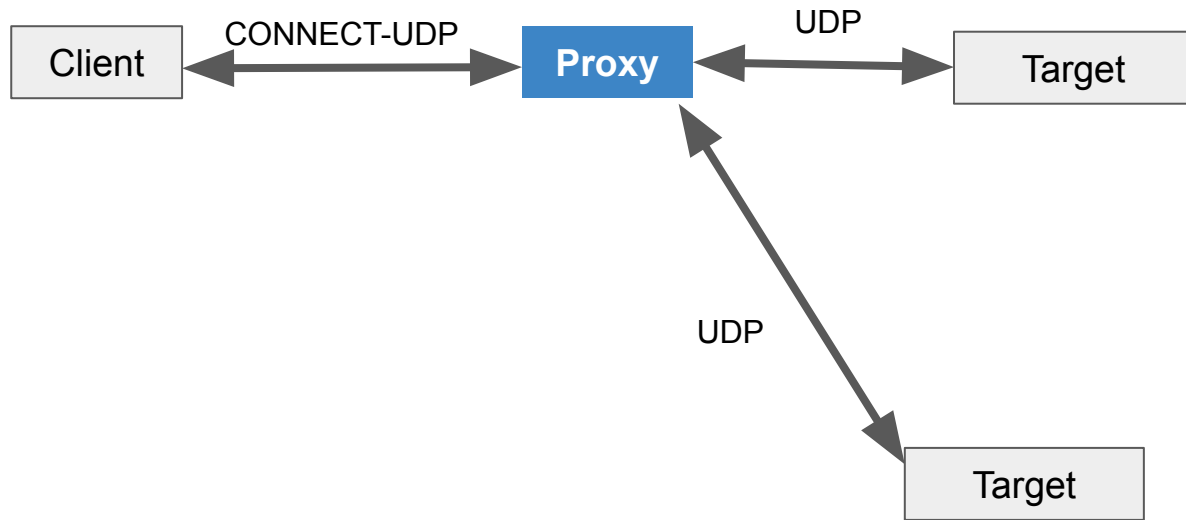
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CONNECT-UDP - with Binding support

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

Editorial improvements:

Fix [IANA considerations](#) pointed out by IANA review

Define behavior for when duplicate Context IDs are requested [#29](#)

Define behavior for when duplicate Context IDs are requested #29

Fixes certain ambiguity in the spec

- Re-use of a context ID for another tuple is considered malformed
- Allocation of a new context ID when an existing one for the same tuple exists is considered malformed
- When both client and proxy attempt to open a context for the same tuple, prioritise the client and close the proxy's context.
- Define that the proxy attempting to open an uncompressed context is considered malformed.

Implementations

Experimental Connect-udp-bind Server implementation in [Google QUICHE](#)

Looking for other implementations for interop!

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