

EDM Program

Evolvability, Deployability, & Maintainability

Set up as an IAB program in August

Initial call in September, planning to meet again in December

<https://github.com/intarchboard/edm>

Current Topics

Evolvability

Protocol extensions & ossification

Deployability

Tools for tracking implementation testing and interoperability

Protocol Extensions

Discussing draft-iab-use-it-or-lose-it, “Long-term Viability of Protocol Extension Mechanisms”

Active use

Encryption

Greasing mechanisms

Invariants

Interoperability Tools

Experimental template used for hackathon results, to help inform discussion and future proposals

Test requirements generated from document tags

```
* The ":scheme" and ":path" pseudo-header fields MUST be omitted.
```

```
{::options req-id="connect-udp-no-scheme-path" req-type="must" req="Client does not include `:scheme` and `:path` in `CONNECT-UDP` requests" /}
```

Results uploaded by individual implementation as JSON

```
{  
  "connect-udp-authority": true,  
  "connect-udp-no-scheme-path": true,  
  "connect-udp-no-content-length": true,  
  "connect-udp-datagram": false,  
}
```

MASQUE Interoperability Tests

These results are used for reporting interop testing only. This is intended for use in tracking the results of IETF hackathon events.

[The CONNECT-UDP HTTP Method](#)

[QUIC-Aware Proxying Using CONNECT-UDP](#)

	The CONNECT-UDP HTTP Method	Network.framework	Quiche
Interoperability test results for The CONNECT-UDP HTTP Method			
Client sends :authority in CONNECT-UDP requests	✓	✓	✓
Client does not include :scheme and :path in CONNECT-UDP requests	✓	✓	✓
Server does not include Transfer-Encoding or Content-Length in CONNECT-UDP responses	✓	✓	✓
Client rejects responses that include Transfer-Encoding or Content-Length in CONNECT-UDP responses	-	-	-
Supports HTTP/3 datagrams by sending H3_DATAGRAM in SETTINGS	⊖	⊖	⊖
Proxy echoes Datagram-Flow-Id header in successful replies	✓	✓	✓
When HTTP/3 datagrams are not supported, sends datagrams on a stream using a 16-bit length field	⊖	⊖	⊖
Server discards UDP packets that do not match any client's request	✓	✓	✓
Interoperability test results for QUIC-Aware Proxying Using CONNECT-UDP			
Client sends Datagram-Flow-Id in all CONNECT-UDP requests	✓	-	-
Client sends :authority in CONNECT-UDP requests	✓	✓	✓
Client sends the same Datagram-Flow-Id in all requests for the same connection	✓	-	-
Client sends exactly one *-Connection-Id in each request	✓	-	-
Client sends Client-Connection-Id in first CONNECT-UDP request	✓	-	-
Client sends DATAGRAM frames in the same flight as the CONNECT-UDP request	+	-	-
Client does not reuse a Datagram-Flow-Id that has been rejected	-	-	-
Client does not reuse a Client-Connection-Id that has been rejected	-	-	-
Client sends a new request prior to sending NEW_CONNECTION_ID frames	-	-	-
Client supports forwarded mode	+	-	-
Client only uses forwarded mode with short header packets	✓	-	-
Client does not use forwarded mode prior to receiving a 2xx (OK)	✓	-	-

✓ Requirement passed
ⓘ SHOULD requirement failed
✗ MUST requirement failed
⊕ Feature supported
⊖ Feature not supported
- Not tested

Last updated	2020-11-13 (latest revision 2020-10-18)
Stream	(None)
Intended RFC status	(None)
Formats	plain text html xml pdf htmlized (tools) htmlized bibtex
Additional Resources	Edit - Implementation test results