Since IETF 117

● Published 2 new drafts
  ○ Added ECN events
  ○ Editorial updates (structure, remove IANA)

● Need some input on issues
  ○ Remove QPACK
  ○ Connection migration / Path ID
Added ECN info/events #263

ECN = "Not-ECT" / "ECT(1)" / "ECT(0)" / "CE"

In QUIC: DatagramsSent / DatagramsReceived

ECNStateUpdated = {
  ? old: ECNState
  new: ECNState
}

ECNState =
  ; testing in progress
  "testing" /
  ; waiting for ack of testing packets
  "unknown" /
  ; testing failed
  "failed" /
  ; testing successful, now sending with ECT(0) marking
  "capable"
Remove QPACK?! #335

Current: Wire Image
- SetDynamicTableCapacityInstruction
- LiteralHeaderFieldWithName

Ideal: High-Level usability
- HeadOfLineBlocked
- TableEntryAdded/Removed

Problem 1: no experience/opinions

Problem 2: blocking progress

Solution: move it to separate doc?
(Multi)path/Migration support #336

Basic idea:

```
{time: 12456, path: "my_first_path", name: "quic:packet_sent", data: {...}}
```

Path ID can be *any string*:

- path: “192.0.2.0:12345-203.0.113.0:443-0xFACADE”
- path: “2001:0db8:85a3:::8a2e:0370:7334:12345-
  2001:0db8:85a3:::8a2e:0370:7335-12346-0xDE1E7E”
- path: “0xABC123”
- path: “76dd12427552987b85a823f0d807de785f58271e”
- path: “the fellowship of the ring”
- ...
(Multi)path/Migration support #336

Associate metadata with PathID (if wanted):

PathAssigned = {
    path_id: text
    ? path_remote: PathEndpointInfo
    ? path_local: PathEndpointInfo
}

PathEndpointInfo = {
    ? ip_v4: IPAddress
    ? ip_v6: IPAddress
    ? port_v4: uint16
    ? port_v6: uint16
    ? connection_ids: [+ ConnectionID]
}

Can update metadata later by logging again (e.g., after migration)

Default path_id is "" (associate path info in non-migration traces)
Explicit Connection Migration states:

```javascript
QUICMigrationStateUpdated = {
  ? old: MigrationState
  new: MigrationState

  ? path_id: PathID
  ? path_remote: PathEndpointInfo
  ? path_local: PathEndpointInfo
}

MigrationState =
  "probing_started" /
  "probing_abandoned" /
  "probing_successful" /
  "migration_started" /
  "migration_abandoned" /
  "migration_complete"
```
(Multi)path/Migration support #336

Summary:

- Path ID for each event ⇒ each event can have associated IP/port/CID
- Path ID is separate from metadata ⇒ efficient, privacy-aware
- Explicit Connection Migration states ⇒ extra clarity if needed

Should be enough to support tooling like qvis

Should be multipath “proof”
The end (for qpack?)

- Added ECN events
- Remove QPACK?
- “Path” proposal!