Ack Frequency

draft-ietf-quic-ack-frequency
https://github.com/quicwg/ack-frequency

QUIC WG, London, November 2022

Current Frame Formats

```
ACK_FREQUENCY Frame {                    IMMEDIATE_ACK Frame {
    Type (i) = 0xaf,                         Type (i) = 0xac
    Sequence Number (i),                 }
    Ack-Eliciting Threshold (i),
    Request Max Ack Delay (i),
    Reserved (6),     }
    Ignore CE (1),    } -> Reordering Threshold (8)
    Ignore Order (1) }
}
```

Sequence Number: Allows receivers to ignore obsolete frames after reordering.

Ack-Eliciting Threshold: The maximum number of ack-eliciting packets the recipient of this frame can receive before sending an acknowledgment.

Request Max Ack Delay: The value to which the endpoint requests the peer update its max_ack_delay

Reordering Threshold: An 8-bit field representing an unsigned integer that indicates how out of order packets can arrive before eliciting an immediate ACK. 0 indicates the peer should ignore reordering.

Ignore CE Removed ([#118](#))

It was unclear if Ignore CE was useful, and there were many concerns about it being dangerous, so it was removed.

PR [#121](#) Merged

Latency to detect packet loss? ([#96](#))

Proposal ([#100](#)) needs to be updated based on feedback, but the broad direction had agreement.