



Making the Internet fast, reliable and secure

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QUIC @

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The Journey

- (0. Broad prior experience of developing UDP-based protocols)
1. Goal: compatibility with Chrome
 - Protocol evolving rapidly, documentation incomplete

=> QUIC code from Chromium as a foundation
2. Added Akamai congestion control algorithms
3. Media Acceleration SDK for app integration on client-side
4. Deployed to all Akamai's edge servers for HTTP delivery
5. Slowly enabling traffic
 - No results to share yet

The Challenges

- Keeping up w/ rate of changes
 - Compatibility, Version negotiation
 - Compliance (e.g., PCI) - TLS 1.3 will help
 - Compatibility with product features built for TCP
 - Need to design for both TCP and QUIC (similar to IPv4/6)
 - Load balancing
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- ⊕ Fallback to TCP
 - ⊕ Selective enablement (alt-svc)



The Plan

- IETF WG participation
- Performance Optimizations
 - Congestion Control, FEC, Multipath, ...
- Current deployment
 - Option for some products
- Long-term plan
 - Default feature of all Akamai products



Thank you!