QUIC Additional Addresses

Implementations and interop

Participants – Table 19:

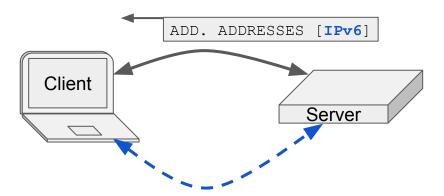
- Maxime Piraux, UCLouvain & WEL RI
- François Michel, UCLouvain
- Louis Navarre, UCLouvain
- Moritz Buhl, TU Munich
- Marcel Kempf, TU Munich





Goal: Implement and interop QUIC Additional Addresses

- <u>draft-piraux-quic-additional-addresses</u>
 defines a frame for servers to
 advertise additional addresses.
- Use-cases:
 - Clients losing one address family.
 - IPv6 multihoming.
 - Mobile p2p servers.
 - Multipath QUIC servers.



QUIC client can migrate to one additional address.

MPQUIC client can establish new paths to additional addresses

Great results!

- Five open-source implementations were modified.
- We got interop with single-path and multipath QUIC endpoints!
- Get in touch with us if you're interested
- <u>draft-piraux-quic-additional-addresses</u>

client ↓ server →	quiche	picoquic	quinn	ngtcp2	aioquic
quiche	FAM	FAM	F		FA
picoquic	F	F			
quinn	FA	FA	F		
ngtcp2	F				
aioquic	F				
Tests:					
	F	Exchange the transport parameter and frame			
	Α	Advertise one additional address and client migrates to it successfully			
	М	Advertise one additional address and client establishes a new path towards it			