Media over QUIC BOF

Wednesday March 23 10:00-12:00 CET

At a Glance

Day: Wednesday, March 23

Time: 10:00-12:00 CET

Room: Grand Klimt Hall 2

BOF: Non WG Forming

Goal: To judge the need and scope of interest in work on one or more new media delivery protocol built on top of QUIC

BOF Chairs: Alan Frindell & Magnus Westerlund

Solutions for Today's World

A significant reason for doing something new in Media Delivery is due to the evolving world:

- Acknowledge CDNs
- Good Security and Authorization
- Distributed Systems
- Diverse set of Clients
- Cloud Based

QUIC as Facilitator

QUIC has a number of capabilities that are attractive:

- Multiple Streams
- Unreliable Datagrams
- Congestion Control
- Flexibility in Reliability between full and partial
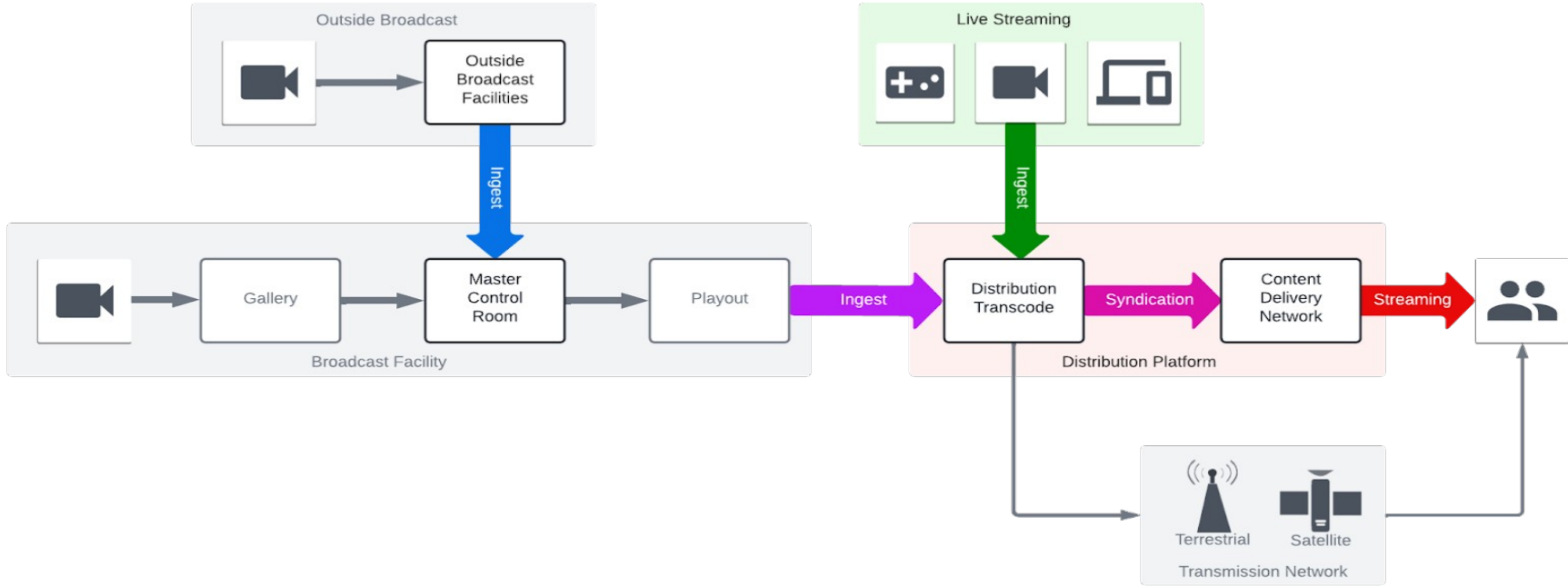- Path Migration
- User Space Implementation

Building on this can simplify the protocol

What to Tackle?

Latency

Interactive Media	● Gaming ● Remote Desktop ● Video Conferencing/Telephony
Live Media	● Live Media Ingest ● Live Media Syndication ● Live Media Streaming
On-Demand Media	● On-Demand Ingest ● On-Demand Playback

Live Media - A Starting Point?

Hybrid Use Cases

Beyond evolving classical use cases?

Hybrid Use Cases combining aspects of several use cases

- Corporate all employee meetings with Q&A
    - Live Media Delivery meets Video Conferencing

Can we by thinking of these use cases from start:

Get a more useful solution

More long term evolable

Not boil the ocean on the initial version

Useful references

Take a look of some of the related documents:

- Media Over QUIC - Use Cases and Considerations for Media Transport Protocol Design (draft-gruessing-moq-requirements)
- QuicR - Media Delivery Protocol over QUIC: Architecture (draft-jennings-moq-quicr-arch-00)
- QuicR - Media Delivery Protocol over QUIC: Protocol (draft-jennings-moq-quicr-proto-00)
- RUSH - Reliable (unreliable) streaming protocol (draft-kpugin-rush-01)
- Warp - Segmented Live Video Transport (draft-lcurley-warp-00)

Come to the BOF!

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