

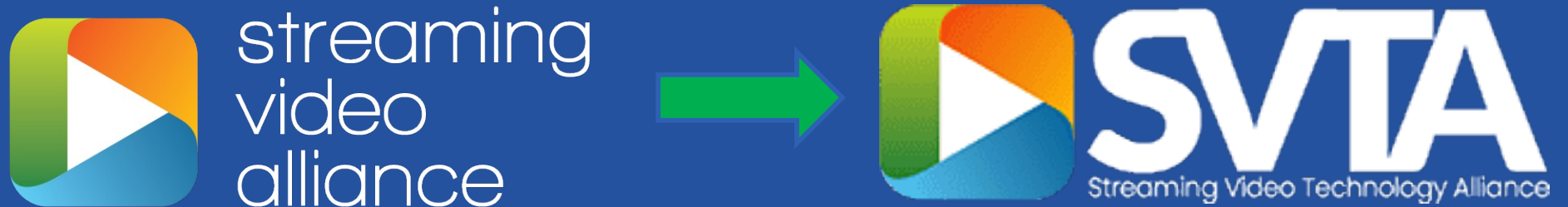
IETF115 MOPS Update

Streaming Video Technology Alliance



Glenn Deen

New Name – Same Focus on Streaming Video Technology



The SVA is now the Streaming Video Technology Alliance

WWW.SVTA.ORG

SVTA focuses on Video Streaming Technology

100+ members including content studios, streaming services, technology providers, CDN operators

Working Group Areas:

- Open Caching
- Metadata
- Live Streaming
- Networking & Transport
- Privacy and Protection
- Edge Storage
- Players & Playback
- Immersive Video
- Measurement/QoE

SVTA Streaming Technology Dependencies on the IETF

RFCs / Drafts

Streaming Workflow

RFC9134 JPEG XS RTP

Ingest

WebRTC

Delivery

RFC 7826 RTSP

Delivery

RFC 8216 HLS

Delivery

RFC 8804

Caching

CDNi Additional Footprint Types

Caching

RFC9000 QUIC Content Delivery

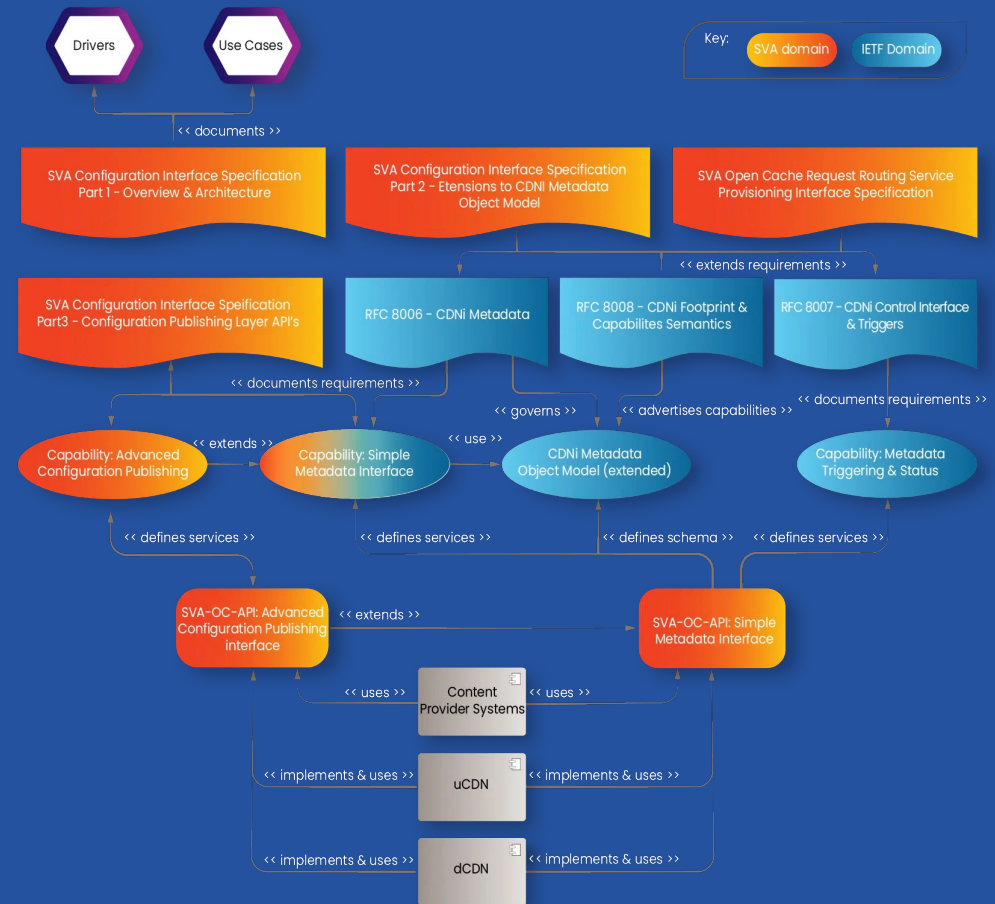
Delivery

DNS

All Workflows

SVTA Open Caching Config Interface - IETF CDNi Interdependency

See the BIG version of this diagram: <https://opencaching.svta.org/open-caching-configuration-interface/>



Open Caching Configuration Interface specifications V1.1 Update Released

Part 1



Overview & Architecture

Part 2



Ext. to CDNI Metadata Object Model

Part 3



Publishing Layer APIs

SVTA Networking & Transport Working Group: QUIC PoC

Develop a reference test environment for streaming with QUIC

QUIC's use of UDP is a significant change to the HTTP/TCP delivery used by the streaming industry to delivery high quality video at scale.

While there are many QUIC implementations for potential adopters to play with to evaluate QUIC for streaming, there is not any standardized end-to-end test bed with incorporated metrics collection connecting players, infrastructure, and servers for QUIC adopters to use in their evaluations.

New Technical Brief on QUIC

Explores QUIC protocol & Features for Video Streaming

<https://www.svta.org/product/svta-quic-tech-brief/>



TECHNICAL PUBLICATION

QUIC TECHNICAL BRIEF

Created and Approved by the
Streaming Video Alliance

June 14, 2022

WORKING GROUP:

Networking and Transport

GROUP CHAIR(S):

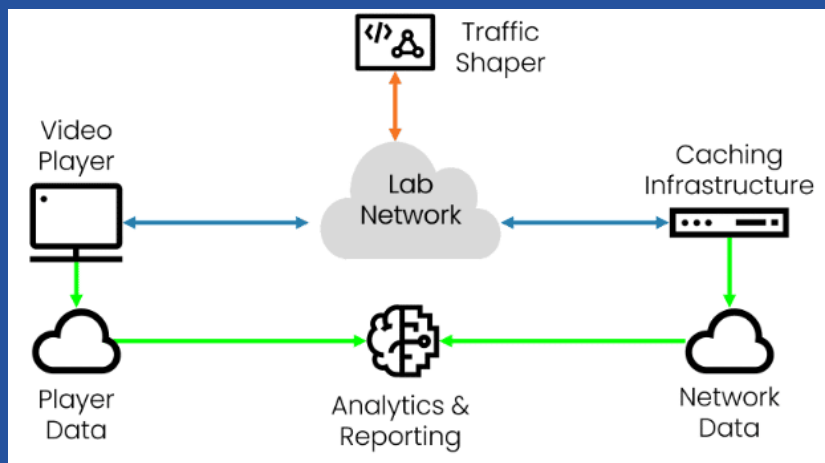
Glenn Deen (Comcast)
Mike Hughes (Limelight Networks)

PROJECT LEAD(S):

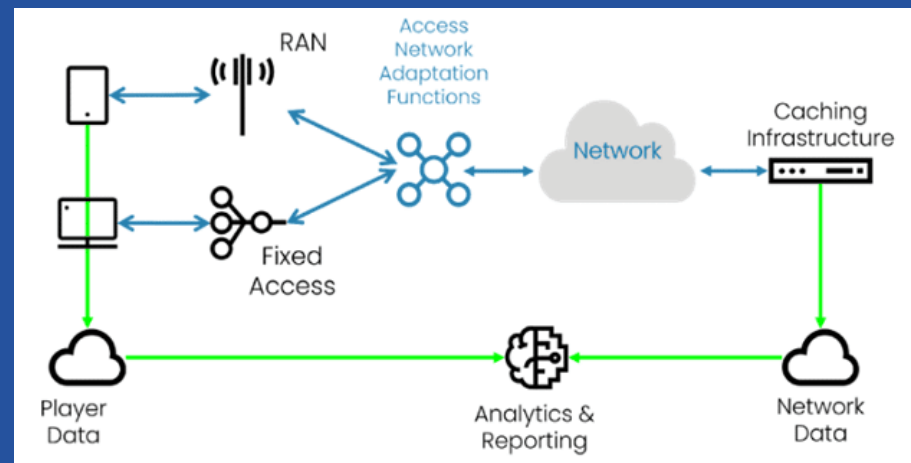
Brian Stevenson

Testing QUIC Against TCP for Streaming Video Delivery: An SVTA Proof-of-Concept

Phase 1 Test Environment



Phase 2 Test Environment



Tests cover: TCP / QUIC delivery | SD, HD, 4K, VR/360 Content | TCP CUBIC, BBRv1, and PCC

Testing details available:

<https://www.svta.org/2022/09/27/testing-quic-against-tcp-for-streaming-video-delivery-an-svta-proof-of-concept/>

SVTA Contacts

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