

draft-lcurley-warp-04

object model DISCUSS

high level overview

Overview

Bundles (renamed)

Tracks

Groups (new)

Objects

Bundle

a prioritization domain

tracks **prioritized** against each other

requires same connection

Track

an encoded bitstream. examples:

track 1: 480p AV1

track 2: japanese OPUS

track 3: WebVTT

track 4: timed metadata

Group

independent collection of objects

intra **dependencies** only

join point for new consumers

Object

a media fragment

payload **opaque** to relay

prioritized during congestion

specific properties

Bundle

currently delegated to
WebTransport session

addressable: absolute url

prioritized:

- send order within bundle

- unspecified between bundles (round-robin)

Track

addressable: per bundle

subscribable: receive new objects

media properties: specified in catalog

Group

addressable: per track

sequenced: relays knows newest

independent: intra dependencies (discuss)

Object

addressable: per group

sequenced: relays knows newest

prioritized: send order within bundle

incremental: relay must stream (discuss)

payload: opaque to relay

plan for warp-05

Objects

@luke

objects are **incremental**

relays **MUST** stream

application **MAY** buffer

possible **atomic** flag?

might not be necessary

Groups

@luke

groups indicate **potential** dependencies
based on sequence number?

Raw QUIC

@victor

SETUP includes bundle URL

mimics WebTransport

pooling?

todo pain

Catalog

@will

separate draft

signals media properties

intended for encoders/decoders

format registry

new and existing standards

Catalog Track

@will

track 0 contains catalog stream
relay agnostic

GROUPs for full refreshes
OBJECTs for delta updates

that's it