Manifest Parser

Timed Metadata Track Parser

Media Buffer

Media Decoder

Event/Metadata Synchronizer & Dispatcher

Inband Event & ‘moof’ Parser

HTTP Stack

Event/T. Metadata dataflow

Media dataflow

Control/Synchronization

DASH Client’s Control, Selection & Heuristic Logic

Application

DASH

Access API

MPD

Events

Inband

Events

Timed

Metadata

DASHEvents & Metadata

Event/

Metadata

API

Subscribe

**Media Segments**

API

Event and Timed Metadata Buffer

Event Start Time (ST)

Segment Earliest Presentation Time =

Event Latest Arrival Time (LAT)

Event Duration (DU)

S(n-1)

S(n)

S(n+1)

S(n+2)

Media timeline

Segments

S(n+3)

Period Start Time =

Event Earliest Arrival Time (LAT)

Event Duration (DU)

P(n-1)

Media timeline

Periods

P(n+1)

Event Start Time (ST)

P(n)

Segment Earliest Presentation Time =

Sample Latest Arrival Time (LAT)

Sample Duration (DU)

S(n-1)

Media timeline

Segments

S(n+1)

Sample Presentation Time (ST)

S(n)

**On-receive**

**dispatch mode**

Duration (DU)

Media timeline

Start Time (ST)

Latest Arrival Time (LAT)

**On-start**

**dispatch mode**

Dispatch Time

Dispatch Time

subscribe\_first(Listener\_1…)

unsubscribe\_last()

or when Media Presentation has ended

subscribe (Listener\_n…)

unsubscribe

Call Listener\_x