Hybrid Broadcast-Broadband

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THE TIMESHIFT PARADIGM

- A broadcast channel carrying a multimedia stream.
- A broadband session for timeline seek.
  Live Event

SUPPORTED FORMATS

Packaging Standards

- **MPEG-2 Transport Stream (TS) for broadcast**
  Through multicast RTP/UDP
- **MPEG-DASH for broadband**
  ISO Base Media File Format (BMFF)

TEMI

Timeline Descriptors

- **Normal Play Time (NPT)**
- **Network Time Protocol (NTP)**
- **Media Timeline**
- **SMPTE Timecodes**

Location Descriptors
- **Embed URLs**
- **Service announcement (preroll)**
- **Service Splicing (e.g. Ad Insertion)**

Low Footprint: Less than 4kbps

DEMO SCENARIO

Broadcast
MP42TS

MPEG-TS Content

URL

Broadband
MP4BOX

MPEG DASH

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