Social Backup and Sharing of Video using HTTP Adaptive Streaming

Victor Klos M.Sc.
HTTP Adaptive Streaming - Overview

Video Stream

- TS segment
- MQ
- LQ
- TS segment
- MQ
- LQ
- TS segment
- MQ
- LQ
- TS segment
- MQ
- LQ

Master Playlist

Playlist

Playlist

Playlist
Scenario

- While visiting a friend
- You show a home movie
- But bandwidth is scarce
Demo Architecture

- **Play HLS**
  - m3u8 playlist
  - Television
  - Proxy

- **Lookup Server**
  - Internet Core
  - Home Gateway Alice
  - Home Gateway Bob

- **Play home movie**

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Closing Remarks and Future Work

 › Combination of off-the-shelf video player with proxy works great
 › Backup and Sharing are two different things:

<table>
<thead>
<tr>
<th></th>
<th>Speed</th>
<th>Content reproducibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Video play out</td>
<td>+</td>
<td>-</td>
</tr>
</tbody>
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 › Content is not data
   → holistic view on (sharing of) content
 › Performance testing, usability testing
Come see the demo at booth 15!