Multiple aggregated control URIs for RTSP

draft-einarsson-mmusic-rtsp-macuri-00.txt
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IPR Statement

- Ericsson has made an IPR statement in relation to this draft:
Why

- Issue is currently of great interest in 3GPP for MBMS in e.g. Mobile TV use-cases using RTSP.
- Channel switch times improved.
- Codec settings are typically the same for TV like live streams
  - At least an operator can choose to use the same settings.
  - No need to (again) negotiate the transport resources and codec settings when switching channel.
Use case: Hybrid unicast / broadcast

- The least popular channel (Ch1) is only available via UC, the most popular channel (Ch2) is only available via BC and the medium popular channel is sometimes available via BC and sometimes via UC.
Proposed solution

- Avoid full RTSP setup.
- Do not use packet modifying switch.

- RTSP PLAY contains synch. info.
- No TEARDOWN of old channel.
- RTSP PAUSE if switch to broadcast.
- Multiple aggregated control URIs (AC URI) proposed to achieve the above.
- Seamless transition between UC and BC can be achieved by receiving both streams during a short time.
- New feature tag "multiple-control-uris" defined and must be used. If server responds with 551 (option not supported), client must fall back to use default AC URI.

- SDP syntax: new attribute "altcontrol", which can occur multiple times, used in combination with multiple AC URIs
Thanks!

- Questions?
Use case: Unicast client

- RTSP is used to control the RTP unicast sessions between client and server (switch)
Use case: Unicast and broadcast clients

- Both clients can view the same channels. For the unicast client RTSP is used to control the streams.