Evaluating the Use of SIP for Streaming Media Applications

draft-whitehead-mmusic-SIP-for-streaming-media-01

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IETF 66 - Montreal

Rationale for Exploring the Use of SIP to Signal Multimedia Sessions

- **Build on SIP signaling strength instead of duplicating its capabilities when conversational and presence capabilities are needed**
  - Allows to create value-added 'blended' services based on the use of a common signaling platform

- **Build on RTSP media control strength instead of duplicating its capabilities streaming capabilities are needed**
  - Allows to continue using standard streaming services based on the use of a common platform

- **Unify and re-use common service architectures**

- **Develop universal clients for multimedia services**

MOTOROLA

Use Cases

- **Blended services/videoconferencing**
- **Video surveillance (with videoconferencing)**
- **Sharing a video with another person over a multi-media call**
- **Allow access to personal/private video content**
- **VOD services that require resource or QOS-guarantees**
- **Settlement across provider boundaries**
- **Intelligent selection of media encoding**

Derived Requirements

Scalability

(Low) Signaling Latency

User identification, authentication and authorization

Accounting, charging, and settlements

Server/client Location Discovery

NAT and Firewall Traversal

Session-based transport policy control

Extensible with respect to application control signaling

Allow proxies

Support media negotiation

Support auto-configuration/installation

Keeping DRM rights during the mobility session

Draft Status

- **V1: Individual contribution**

- **Informational**

- **Evolved from version 0 based on comments at IETF 65 and discussions with MMUSIC WG participants and chairs**

- **Provides use cases and defines requirements**

- **Any solution will be presented independently**

Recommendation

- **We propose that further work be initiated to explorer how to signal streaming media sessions using SIP based on the use cases defined in   this document.**

- **We propose to reuse RTSP to control streams negotiated by SIP/SDP.**

Next Steps

- **Continue evaluating IETF interest in this topic:**
  - Current I-D: Use Cases & Requirements
    - **Need more inputs**
  - Could lead to an Informational RFC.

- **Work in progress on implementations POC**
  - To be shown over the summer/early fall.
  - Plan to submit another I-D
    - **Defines SDP and flows for an integrated SIP/RTSP solution**
    - **Could lead to a Standards track RFC.**

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