

SDPng Requirements Update

draft-mmusic-sdpng-req-00.txt

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Overview

- Status of requirement document
 - New requirements for
 - Session description
 - Capability negotiation
 - Open issues
- Next steps

Conference/Capability Description (1)

- Separating capability descriptions from capacity limitations
 - Allows for modularity:
 - Capability descriptions can be referenced/imported
 - Limitations can be applied across single capabilities
 - Simplify basic implementations
 - Constraints optional?

Conference/Capability Description (2)

- Alternatives vs. simultaneous media
 - Clear separation required
- Different configurations for one application
 - Media alignment, “a=fid” scenarios...

Requirements for Capability Negotiation (1)

- Deterministic capability calculation process:
 - Multi-party negotiation as iterations of two-party calculation
 - Commutative & associative algorithm
 - $(a \rightarrow b) \rightarrow c == (b \rightarrow c) \rightarrow a$
- Calculation independent of semantics
 - Use cases:
 - Endpoints
 - Conference bridges
 - Proxies
 - Gateways

Capability Negotiation: Issues (1)

What are capabilities?

- More abstract functionality (ability to receive/process media streams with certain parameters).
 - Express constraints (“only 1 GSM stream at a time) explicitly.
 - Capabilities can be processed directly, no inferring or translating required.
- Not: resources (CPU type, memory, screen resolution)

Capability Negotiation: Issues (2)

- Scheduling and other meta information
 - Some use cases (e.g., announcements) require this.
 - Proposed requirement for SDPng:
 - Provide extension mechanisms that allow for defining an appropriate profile.
 - Re-use other existing efforts?
 - calsch
 - SMIL

Next Steps

- draft-ietf-mmusic-sdpng-req-01.txt
next week:
 - Use cases, requirements for non-endpoint systems
 - What else?
- Use mmusic mailing-list for SDPng discussion