

Status of MMUSIC SDP Capability Negotiation

IETF 68

Flemming Andreassen

March 19, 2007

Since Last IETF

- Formed Design Team consisting of
 - Roni Even, Robert Gilman, Matt Lepinski, Joerg Ott, Colin Perkins, Thomas Stach, and Flemming Andreasen
- Additional input and feedback from
 - Francois Audet, John Elwell, Cullen Jennings, and Dan Wing
- Weekly conference calls from 12/12/06 to 2/27/07
 - Adopted <draft-andreasen-mmusic-sdp-capability-negotiation-01.txt> as starting point
 - Split document in two
 - Requirements: Initial design team focus
 - Solution document: Based on requirements document

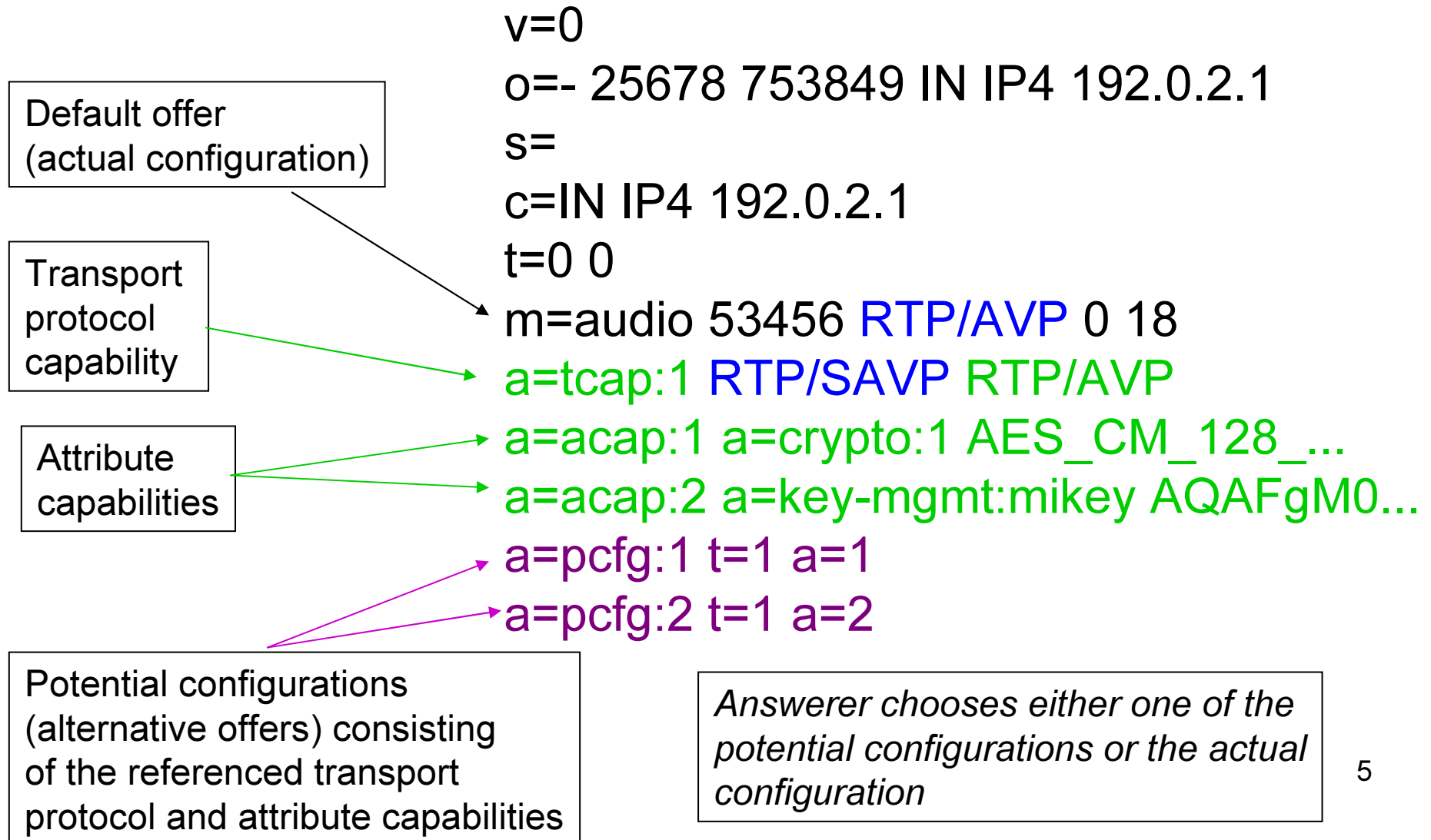
Documents

- Requirements
 - draft-ietf-mmusic-sdp-capability-negotiation-reqts-01.txt
 - Main guiding principles
 - Provide a general purpose capability negotiation mechanism
 - Avoid undue complexity or scope creep for people that need only negotiation of transport protocols and associated attributes
 - [DTLS-][SZ]RTP/[S]AVP[F] crowd for example
 - Requirements divided into
 - Core: All implementations must support
 - Extensions: Optional to implement
- Ended up with two solution documents per the above
 - SDP Capability Negotiation
 - draft-ietf-mmusic-sdp-capability-negotiation-05.txt
 - Core solution document for transport protocols and attributes
 - Best-effort SRTP for example
 - SDP Media Capabilities Negotiation:
 - draft-ietf-mmusic-sdp-media-capabilities-01.txt
 - Extension for media capabilities

SDP Capability Negotiation (Core)

- Provides two things
 - Backwards compatible capability negotiation for transport protocols and attributes
 - RTP, SRTP, DTLS-SRTP, ZRTP with different profiles (e.g. feedback-based or not – AVP or AVPF), etc.
 - Associated attributes such as “a=crypto”, “a=key-mgmt”, “a=fingerprint”, “a=zrtp-zid”, “a=rtcp-fb”, etc.
 - Extensibility mechanisms to enable capability negotiation for other things
 - Media capabilities for example
 - See draft-ietf-mmusic-sdp-media-capabilities-01.txt

Example SDP for Best-Effort SRTP



Status of Core Document

- Have uncovered and addressed a lot of issues since last IETF
 - On 6th iteration of document since last time
 - Believe we have a reasonably mature solution document at this time
- Goal is to issue WGLC shortly after Prague
 - We'll know better after MMUSIC 😊