RTSP 2.0

draft-ietf-mmusic-rfc2326bis-25

Magnus Westerlund  magnus.westerlund@ericsson.com
Martin Stiemerling  martin.stiemerling@neclab.eu

IETF-79, MMUSIC WG, 2010-11-10
Editorials

• Updated references
  – e.g. NTP: RFC 1305 to RFC 5905

• Method names MUST start with $$
  – ASCII code (dec.) fixed: 24 to 36

• 465 Notification Reason Unknown
  – missed in ABNF; added
Keying SRTP with MIKEY

- Defined new MIKEY RSA-R mode based keying for SRTP (SAVP and SAVPF) and this is defined in Appendix C.1.4.1.

- “MIKEY: This parameter can be included both in request and response messages. The binary MIKEY message SHALL be BASE64 [RFC4648] encoded before being included in the value part of the parameter.”
New Key Mgmt Error Response

• 466 Key Management Error
  – Section15.4.31.

• “This indicates that there has been an error in a Key Management function used in conjunction with a request. For example usage of MIKEY according to Appendix C.1.4.1 may result in this error.
Overload Control (1/2)

• Add to 503 response
  – “The client MUST honor the length, if given in the Retry-After header.”

• New Section 10.7 on overload control
  – discussing general situation briefly
  – RECOMMENDED to increase the length proportional with the current load of the server
  – RECOMMENDED to not send the same value in the Retry-After header [....] to add a variation the mean value[....].
Overload Control (2/2)

- load balancing RTSP
- server may receive a 503 or a TCP timeout
- what to do if all RTSP servers are overloaded?
- “Any additional request to a specific address MUST be delayed according to the Retry-After headers received. For addresses where no response was received or TCP timeout occurred, an initial wait timer SHOULD be set to 5 seconds. That timer MUST be doubled for each additional failure to connect or receive response.”
Closing Connections

• When the server is allowed to close connection
  – after sending a response
  – after receiving an incomplete message
• draft-23 recommended for incomplete messages 1 second
  – too aggressive and below TCP timeout
  – RECOMMEDED is 10 seconds
Clarifying Bandwidth Header

• Add explanation why clients might not be able to judge bandwidth
  – client on LAN, connected via xDSL and server somewhere in the Internet
• “It is RECOMMENDED that only clients that has accurate and explicit information about bandwidth bottlenecks uses this header.”
• Not a replacement for proper congestion control!
Content-Location

• Clarified usage of this header
• see full text in Section 16.17
Conclusion

• Open issues fixed
• New draft version needs to be submitted with minor text improvements
• Then WGLC on the changes
  – after IETF meeting