Interoperability and Conformance: An overview of ISMA activities





Interoperability challenges

- Open market with products from different vendors working together
- Guarantee the best user experience
- → Interoperability testing
- → Conformance Program

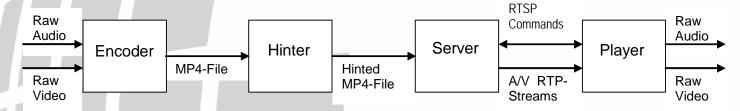


Interoperability testing

- Goal:
 - Test compatibility between different vendors
 - ISMA 1.0 / 2.0
 - ISMAcryp
 - New: Closed Captioning
 - Help debugging applications
- Plugfests
 - File exchange and streaming tests
 - Virtual and Face-to-face
 - Joint plugfests with other organizations
 - → last December with MPEGIF and IMTC

Conformance Points

- Encoder → File writer and AV encoding
- Hinter
- → SDP and RTP packet creation
- Server
- → RTSP connection, RTP transport
- Player decoding
- → RTP/RTSP, file reader and AV



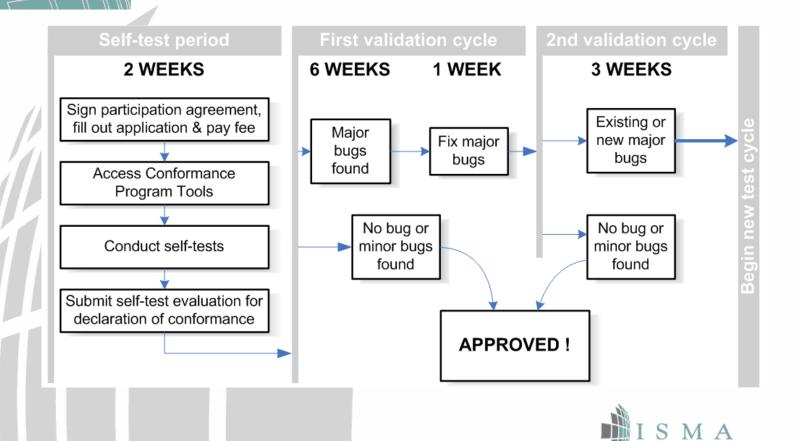


Conformance Program Overview

- Conformance suite
 - Reference products and files
 - Test tools
 - Raw test files/material
 - Conformance documents
- 3-month test cycles
 - Self-test phase by Candidate
 - Validation by ISMA
 - Optional re-testing and verification



Conformance Program Cycle



ISMA Conformance Program

- ISMA 1.0: MPEG-4 SP/ASP + AAC
 - Launched last September
- ISMA 2.0: MPEG-4 AVC + HE-AAC
 - Starting now
 - First cycle begins July 1st
 - Accepting candidates for July cycle



References and Contact information

ISMA Conformance Program: www.isma.tv/Conformance

IEEE Multimedia Magazine, April/June 2005 (Vol. 12, No. 2), pp. 96-102

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