

ISO 26429-6:2008-07 (E)

Digital cinema (D-cinema) packaging - Part 6: MXF_track file, essence encryption

Table of Contents

- 1 Scope 3
- 2 Normative References 3
- 3 Overview 4
- 4 Encrypted Essence Container 5
- 5 Cryptographic Framework..... 5
 - 5.1 Cryptographic Framework Key 6
 - 5.2 Length 6
 - 5.3 Context SR..... 7
- 6 Cryptographic Context 7
 - 6.1 Cryptographic Context Key 7
 - 6.2 Length 8
 - 6.3 Context ID 8
 - 6.4 Source Essence Container Label 8
 - 6.5 Cipher Algorithm 8
 - 6.6 MIC Algorithm 8
 - 6.7 Cryptographic Key ID 9
- 7 Encrypted Triplet..... 9
 - 7.1 Encrypted Triplet Key..... 10
 - 7.2 Length 10
 - 7.3 Cryptographic Context Link..... 10
 - 7.4 Plaintext Offset..... 10
 - 7.5 Source Key..... 10
 - 7.6 Source Length..... 10
 - 7.7 Encrypted Source Value 11
 - 7.8 TrackFile ID [optional] 11
 - 7.9 Sequence Number [optional] 12
 - 7.10 MIC [optional]..... 12
- 8 Encrypted Track File Constraints..... 12
 - 8.1 Encrypted Essence Track 12
 - 8.2 Cryptographic Framework DM Track 12
 - 8.3 Index Tables..... 13
- 9 Reference Decryption Processing Model..... 13
 - 9.1 Overall Flow 13
 - 9.2 Modules..... 14
- 10 Label and Key Structures 18
 - 10.1 Encrypted Essence Container Label 18
 - 10.2 Cryptographic Framework Label 19
 - 10.3 Cryptographic Framework Key 20
 - 10.4 Cryptographic Context Key..... 21
 - 10.5 Encrypted Triplet Key 22
 - 10.6 AES-CBC with 128-bit Key UL 22
 - 10.7 HMAC-SHA1 with 128-bit Key UL 23
- Annex A Security Properties (Informative) 24
- Annex B Bibliography (Informative)..... 25