

SMPTE STANDARD



D-Cinema Operations – Key Delivery Message

Page 1 of 8

Table of Contents

	Page
Section 5.2.8.2 TypedKeyId	2
Section 5.2.9.1 ForensicMarkFlag	3
Bibliography	4

Foreword

SMPTE (the Society of Motion Picture and Television Engineers) is an internationally-recognized standards developing organization. Headquartered and incorporated in the United States of America, SMPTE has members in over 80 countries on six continents. SMPTE's Engineering Documents, including Standards, Recommended Practices, and Engineering Guidelines, are prepared by SMPTE's Technology Committees. Participation in these Committees is open to all with a bona fide interest in their work. SMPTE cooperates closely with other standards-developing organizations, including ISO, IEC and ITU.

SMPTE Engineering Documents are drafted in accordance with the rules given in its Standards Operations Manual. This SMPTE Engineering Document was prepared by Technology Committee 21DC.

Intellectual Property

At the time of publication no notice had been received by SMPTE claiming patent rights essential to the implementation of this Engineering Document. However, attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. SMPTE shall not be held responsible for identifying any or all such patent rights.

Introduction

This section is entirely informative and does not form an integral part of this Engineering Document. The purpose of this document is to add a Typed Key Id and a Forensic Mark Flag for immersive sound essence.

Amendment

Upon approval of this amendment, ST 430-1:2017 shall be revised as follows:

Section 5.2.8.2 TypedKeyId

Add the following text to the end of section 5.2.8.2, TypedKeyId, just before the start of section 5.2.9:

The scope attribute with a value that conforms to the syntax "<http://www.dolby.com/cp850/2012/KDM#kdm-key-type>", shall be associated with the following KeyType value:

Byte String (hexadecimal notation)	Character String	Description
4D.44.45.4B	"MDEK"	Immersive sound essence key

Section 5.2.9.1 ForensicMarkFlag

Replace section 5.2.9.1, Forensic Mark Flag, in its entirety with:

A ForensicMarkFlag element shall contain a single URI value indicating whether forensic marking is to be used in conjunction with a particular KeyType contained in the KDM. The following table lists the forensic marking requirements defined by this standard:

Forensic Mark Flags	
URI value	Requirement
http://www.smpte-ra.org/430-1/2006/KDM#mrkflg-picture-disable	Disable forensic marking in connection with keys of KeyType "MDIK"
http://www.smpte-ra.org/430-1/2006/KDM#mrkflg-audio-disable	Disable forensic marking in connection with keys of KeyType "MDAK"
http://www.smpte-ra.org/430-1/2017/KDM#mrkflg-mdx1-{}-disable	Disable forensic marking in connection with key with KeyId equal to {} and of KeyType equal to "MDX1"
http://www.smpte-ra.org/430-1/2017/KDM#mrkflg-mdx2-{}-disable	Disable forensic marking in connection with key with KeyId equal to {} and of KeyType equal to "MDX2"
http://www.smpte-ra.org/430-1/2019/KDM#mrkflg-enh-audio-disable	Disable forensic marking in connection with keys of KeyType "MDEK"

{ID} in the table above shall conform to the lowercase UUID string representation specified in [UUID] and shall be equal to a KeyId value of the key to which the Forensic Mark Flag applies.

EXAMPLE: <http://www.smpte-ra.org/430-1/2017/KDM#mrkflg-mdx1-dfc4c132-c318-44fd-a515-d2a8075f4c5a-disable>

Bibliography

Add the following reference to the bibliography

ST 430-12:2014, D-Cinema Operations - FSK Synchronization Signal