

SMPTE STANDARD

Additional Composition Metadata and Guidelines



Page 1 of 21 pages

Table of Contents	Page
Foreword	2
Intellectual Property	2
Introduction.....	2
1 Scope	3
2 Conformance Notation	3
3 Normative References	3
4 Additional Composition Metadata	4
4.1 XML Schema and Namespace	4
4.2 Versioning	4
4.3 Extensions.....	4
4.4 Structures.....	5
5 Composition Metadata Guidelines	12
5.1 General	12
5.2 Language Tags	14
5.3 RatingList	14
5.4 ContentKind	15
5.5 Markers	15
5.6 Distributor Composition Identifiers	15
Annex A Bibliography (Informative)	16
Annex B Common Language Tags and Obsolete Codes (Normative)	17
Annex C Consolidated Schema (Informative).....	20
Annex D Example Instance (Informative)	21

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.

SMPTE ST 429-16 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.

A number of metadata items not specified in SMPTE ST 429-7 have seen widespread use in D-Cinema. This specification defines a new Asset element (the CompositionMetadataAsset element) to carry additional metadata items in the Composition Playlist while retaining compatibility with deployed equipment.

This specification also provides guidelines on the consistent use of composition metadata to facilitate composition ingest, scheduling and diagnostics.

1 Scope

This specification defines additional D-Cinema composition metadata, and provides guidelines on the use of D-Cinema composition metadata for composition ingest, scheduling and diagnostic.

2 Conformance Notation

Normative text is text that describes elements of the design that are indispensable or contains the conformance language keywords: "shall", "should", or "may". Informative text is text that is potentially helpful to the user, but not indispensable, and can be removed, changed, or added editorially without affecting interoperability. Informative text does not contain any conformance keywords.

All text in this document is, by default, normative, except: the Introduction, any section explicitly labeled as "Informative" or individual paragraphs that start with "Note:"

The keywords "shall" and "shall not" indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted.

The keywords, "should" and "should not" indicate that, among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

The keywords "may" and "need not" indicate courses of action permissible within the limits of the document.

The keyword "reserved" indicates a provision that is not defined at this time, shall not be used, and may be defined in the future. The keyword "forbidden" indicates "reserved" and in addition indicates that the provision will never be defined in the future.

A conformant implementation according to this document is one that includes all mandatory provisions ("shall") and, if implemented, all recommended provisions ("should") as described. A conformant implementation need not implement optional provisions ("may") and need not implement them as described.

Unless otherwise specified, the order of precedence of the types of normative information in this document shall be as follows: Normative prose shall be the authoritative definition; Tables shall be next; followed by formal languages; then figures; and then any other language forms.

3 Normative References

Note: All references in this document to other SMPTE documents use the current numbering style (e.g. SMPTE ST 429-7:2006) although, during a transitional phase, the document as published (printed or PDF) may bear an older designation (such as SMPTE 429-7-2006). Documents with the same root number (e.g. 429-7) and publication year (e.g. 2006) are functionally identical.

The following standards contain provisions that, through reference in this text, constitute provisions of this recommended practice. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this recommended practice are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

SMPTE ST 428-12:2013, D-Cinema Distribution Master — Common Audio Channels and Soundfield Groups

SMPTE ST 429-7:2006, D-Cinema Packaging — Composition Playlist

SMPTE ST 429-10:2008, D-Cinema Packaging — Stereoscopic Picture Track File