

Composition Metadata Guidelines

This document provides guidelines for the transmission and display of the metadata associated with a D-Cinema composition. These guidelines apply to both Interop and SMPTE/DCI packages.

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1 Introduction

For scheduling and diagnosis, exhibition staff benefits from detailed information on D-Cinema content. While the Composition Playlist contains a number of metadata items, it is missing key items that have proven useful in practice. These items are instead encoded (see D-Cinema Naming Convention) in the title of the composition, whose structure cannot accommodate the full range of desired metadata. As a result, the metadata contained in the Composition Playlist is inconsistent and seldom displayed in detail by exhibition equipment.

This document is designed to promote the consistent transmission and display of metadata related to D-Cinema compositions. In Section 2 specifies guidelines for transmitting Composition Playlist metadata: it constrains existing items and adds new items that have proven useful in practice. Section 3 specifies guidelines for the display, by exhibition equipment, of information related to the Composition Playlist.

2 Transmission Guidelines

The following guidelines supplements existing normative provisions and, unless noted otherwise, apply to both SMPTE/DCI and Interop Composition Playlist.

2.1 Overall

2.1.1 Language Tags

All values of type `xs:language` shall conform to RFC 5646.

2.1.2 Optional Elements

Distributors should make best effort to provide all information specified herein. If an element is optional, its absence shall indicate that the value was not available at the time of creation of the Composition Playlist.

2.2 ContentVersion

The value of the LabelText element shall consist of free-form text, optionally ending with the string "[Version" 1*DIGIT "]", with the digits corresponding to the version number of the Composition Playlist.

Interop-only. The ContentVersion element and the LabelText element contained within shall be present. The Id element within the ContentVersion element may be omitted.

2.3 RatingList

The RatingList should contain maturity ratings appropriate for the release region.

Section 5 defines Rating Agency URIs and corresponding Labels for selected release regions.

2.4 ContentKind

This specification defines additional ContentKind values.

When the value of the scope attribute of the ContentKind element is <http://isdcf.com/schemas/draft/2011/cpl-metadata#scope/content-kind>, the value of the ContentKind element shall be one of the values of Table 1.

2.5 CompositionMetadataAsset

A number of metadata items not specified in [SMPT 429-7:2006] have seen widespread use in D-Cinema distribution as part of the Naming Convention. In order to carry these items in the Composition Playlist and remain compatible with deployed equipment, this document specifies a new Asset element, namely the CompositionMetadataAsset element.

SMPT/DCI only. For SMPT/DCI Composition Playlist instances, the CompositionMetadataAsset element shall conform to the XML Schema of Section 9.

Interop-only. For Interop Composition Playlist instances, the CompositionMetadataAsset element shall conform to the XML Schema of Section 9 with the value of the xmlns:cpl attribute equal to <http://www.digicine.com/PROTO-ASDCP-CPL-20040511#>.

A Composition Playlist instance shall contain exactly one CompositionMetadataAsset instance located in the first Reel element of the ReelList element.

The value of the IntrinsicDuration element shall be set to 0.

The value of the EditRate element shall be set to the value of the EditRate of the Composition Playlist.

The following specifies the elements of CompositionMetadataAsset.

2.5.1 ReleaseRegion

The ReleaseRegion shall contain a human-readable representation of the intended release region for the Composition Playlist. A scope attribute shall determine the permissible values of the element.

This specification defines the scope value <http://isdcf.com/schemas/draft/2011/cpl-metadata#scope/release-region/RFC5646>. When this scope value is used or no scope value is present, the value of the ReleaseRegion shall be a valid region subtag found in the Language Subtag Registry specified in [RFC 5646]. For generic international versions, the code 001 shall be used.

NOTE: As of the publication date of this specification, the set of region subtags in the Language Subtag Registry consists of a subset of the geographical regions specified in ISO 3166-1 and U.N. M.49. The Language Subtag Registry is maintained by IANA at <http://www.iana.org/assignments/language-subtag-registry> and is the definitive list of region subtags.

2.5.2 Distributor

The Distributor shall contain a human-readable representation of the distributor, e.g. studio, for the Composition Playlist in the intended release region.

Implementations should use one of the common values listed in Section 6.

2.5.3 Facility

The Distributor element shall contain a human-readable representation of the organization that created the Composition Playlist.

Implementations should use one of the common values listed in Section 7.

2.5.4 StereoscopicLuminance

The 3DLuminance element shall be present only if the Composition Playlist instance contains stereoscopic content and shall indicate the screen luminance at which the stereoscopic content was authored. It shall be expressed in units of foot-lamberts.

2.5.5 MainSoundConfiguration

The MainSoundConfiguration element shall contain a human-readable representation of the soundfield and channel configuration present in the MainSound element.

The scope attribute of the element shall determine the permissible values of the element. If the scope attribute is absent from the element, or set to its default value, the value of the element shall follow the pattern `SOUNDFIELD [" (" CHANNEL * (" , " CHANNEL) ") "]` Both SOUNDFIELD and

CHANNEL shall conform to the pattern [a-zA-Z] [a-zA-Z0-9] { 1 , 7 }. SOUNDFIELD shall reflect the primary soundfield carried in MainSound. CHANNEL values shall include all channels present in MainSound. Table 5 and Table 6 in Section 8 list common soundfield and channel symbols, respectively.

If the Label element's scope attribute is present and not set to its default value, the value of the MainSoundConfiguration element is outside the scope of this specification.

2.5.6 MainPictureActiveArea

The Height and Width elements of the MainPictureActiveArea element shall be the height and width in pixel elements of the active area of the picture essence referenced by the MainPicture element

2.5.7 MainSubtitleLanguageList

Every item of the MainSubtitleLanguageList element shall be a language tag as specified in RFC5646.

There shall be a one-to-one correspondence between MainSubtitleLanguageList elements and languages displayed by the MainSubtitle asset. The first item of the MainSubtitleLanguageList element shall correspond to the primary language, if any.

2.5.8 ExtensionMetadata

Extension metadata may be added to the CompositionMetadataAsset by using ExtensionMetadata elements.

An ExtensionMetadata element consists of human-readable name (the Name element) and properties (the PropertyList element), and opaque elements that use the XML schema <xs:any> mechanism.

An ExtensionMetadata element may include only human-readable properties, only opaque elements, a combination of both, or neither. Nevertheless, an ExtensionMetadata element should, whenever possible, include human-readable properties.

The scope attribute of the ExtensionMetadata element shall be globally unique and shall identify the nature of the ExtensionMetadata element.

An implementation shall ignore any ExtensionMetadata elements with a scope attribute value it does not recognize.

No two ExtensionMetadata elements in a given CompositionMetadataExtension element shall have the same scope attribute value.

2.5.8.1 Name

The Name element shall be a human-readable mnemonic that identifies the nature of the ExtensionMetadata element.

2.5.8.2 PropertyList

The PropertyList element contains a list of Property elements that each corresponds to a particular property of the extension metadata.

No two Property elements within a given PropertyList element shall have the same Name value.

1.1.1.1.1 Name

The Name element shall be human-readable and identify the property.

1.1.1.1.2 Value

The Value element shall be human-readable and shall be the value of the property.

3 Display Guidelines

The following specify guidelines for the display, by exhibition devices, of information related to D-Cinema compositions.

3.1 Overall

3.1.1 Missing Information

Implementations should clearly indicate the absence of an expected metadata item using text appropriate for the locale, e.g. "n/a" in an English locale.

3.1.2 Language

If an implementation encounters a language tag it does not recognize, it should display the tag itself, instead of nothing. For example, if the Language element of the MainSound element contained the value "fb", the implementation should display "fb" as the language even though that code presumably is not recognized as a valid language code.

Under no circumstance should an unknown language code prevent successful playback.

3.2 Title

Implementations should display the value of the ContentTitleText element.

3.3 3D/2D

Implementations should display whether the composition consists of 3D picture based on the presence of the MainStereoscopicPicture element.

3.4 ContentKind

Implementations should display the value of the ContentKind element.

3.5 MainSound Language

Implementations should display the value of the Language element of the MainSound element.

3.6 MainSubtitle Languages

Implementations should display the value of all items of the MainSubtitleLanguageList element, if present, or the value of the Language element of the MainSubtitle element, if MainSubtitleLanguageList is not present.

The value of the first item of MainSubtitleLanguageList or the value of the Language element of the MainSubtitle element, as the case may be, should be identified as the primary language of the MainSubtitle asset.

3.7 MainCaption Language

Implementations should display the value of the Language element of the MainCaption element.

3.8 Maturity Rating

Implementations should display the value of all the Rating elements of the RatingList element.

3.9 IssueDate

Implementations should display the value of the IssueDate element.

3.10 Interop or SMPTE/DCI

Based on the namespace of the Composition Playlist instance, implementations should display whether the Composition Playlist conforms to Interop or SMPTE/DCI specifications.

3.11 MainPicture FrameRate

Implementations should display the value of the FrameRate element of the MainPicture element.

3.12 FFMC Marker

The Marker with a Label value of FFMC (see Section 7.3.1 in ST 429-7) is used to trigger house lights during the theatrical presentation.

3.13 CPL Status

Prior to the ingestion of a given Composition Playlist, implementations should display whether the given Composition Playlist (a) is complete prior to its ingestion and (b) will be complete following its ingestion.

Implementations should separately display incomplete CPLs, i.e. CPLs for which not all assets are available, and complete CPLs for which a KDM is missing. .

3.14 Release Region

Implementations should display the value of the ReleaseRegion element of the CompositionMetadataAsset element.

3.15 Audio channel configuration

Implementations should display the value of the MainSoundConfiguration element of the CompositionMetadataAsset element.

3.16 StereoscopicLuminance

Implementations should display the value of the StereoscopicLuminance element of the CompositionMetadataAsset element.

3.17 Distributor

Implementations should display the value of the Distributor element of the CompositionMetadataAsset element.

3.18 Facility

Implementations should display the value of the Facility element of the CompositionMetadataAsset element.

3.19 Active area

Implementations should display the value of the MainPictureActiveArea element of the CompositionMetadataAsset element.

3.20 Version Number

Implementations should display the value of the LabelText element of the ContentVersion element.

3.21 ExtensionMetadata

Implementations should display the value of the Name, Property/Name and Property/Value elements of all ExtensionMetadata elements.

4 Additional ContentKind

Kind	Description
promo	A piece of promotional publicity or advertising
stereocard	"Please Put Your 3D Glasses On Now" card

Table 1. Additional ContentKind values.

5 Ratings

Region	Agency URI	Applicable Content Kind	Label	Description
Australia	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/australia	Trailer	AE	E - ADV EXEMPTION
		Trailer	G	G
		Trailer	M	M
		Trailer	M5	MA 15+
		Trailer	PG	PG
		Trailer	R	R
Austria	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/austria	Feature	AA	All Ages
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
		Feature	06	Viewers over 6
		Feature	X	X
		Trailer	AA	All Ages
		Trailer	12	Viewers over 12
		Trailer	16	Viewers over 16
		Trailer	06	Viewers over 6
		Trailer	X	X
Belgium	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/belgium	Feature	KN	KNT/ENA
		Feature	KT	KT/EA
Bulgaria	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/bulgaria	Feature	A	A
		Feature	B	B
		Feature	C	C
		Feature	D	D
		Feature	X	X
		Trailer	A	A
		Trailer	B	B
		Trailer	C	C
		Trailer	D	D
		Trailer	X	X
Czech Republic	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/czech-republic	Feature	U	U
		Feature	12	Viewers over 12
		Feature	14	Viewers over 14
		Feature	18	Viewers over 18

		Trailer	U	U
		Trailer	12	Viewers over 12
		Trailer	14	Viewers over 14
		Trailer	18	Viewers over 18
Denmark	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/denmark	Feature	GR	Green
		Feature	11	Viewers over 11
		Feature	15	Viewers over 15
		Feature	07	Viewers over 7
		Trailer	GR	Green
		Trailer	11	Viewers over 11
		Trailer	15	Viewers over 15
		Trailer	07	Viewers over 7
Egypt	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/egypt	Feature	BN	Banned
		Feature	GN	General
		Feature	18	Viewers over 18
		Trailer	BN	Banned
		Trailer	GN	General
		Trailer	18	Viewers over 18
Finland	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/finland	Feature	K1	K-11
		Feature	K13	K-13
		Feature	K5	K-15
		Feature	K18	K-18
		Feature	K3	K-3
		Feature	K7	K-7
		Feature	KK	KK
		Feature	S	S
		Trailer	K1	K-11
		Trailer	K13	K-13
		Trailer	K5	K-15
		Trailer	K18	K-18
		Trailer	K3	K-3
		Trailer	K7	K-7
		Trailer	KK	KK
		Trailer	S	S
France	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/france	Feature	AA	All Ages
		Feature	AV	AVERTISSEMENT
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
		Feature	18	Viewers over 18
		Feature	X	X
		Trailer	AA	All Ages
		Trailer	12	Viewers over 12
Germany	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/germany	Feature	AA	All Ages
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
		Feature	18	Viewers over 18
		Feature	06	Viewers over 6
		Trailer	AA	All Ages

Greece	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/greece	Trailer	12	Viewers over 12
		Trailer	16	Viewers over 16
		Trailer	18	Viewers over 18
		Trailer	06	Viewers over 6
		Feature	K	K
Hong Kong	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/hong-kong	Feature	K13	K-13
		Feature	K17	K-17
		Feature	18	Viewers over 18
		Trailer	K	K
		Trailer	K13	K-13
		Trailer	K17	K-17
		Trailer	18	Viewers over 18
		Feature	1	I
		Feature	2A	IIA
		Feature	2B	IIB
Hungary	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/hungary	Feature	3	III
		Trailer	1	I
		Trailer	2A	IIA
		Trailer	2B	IIB
		Trailer	3	III
		Feature	0A	0 - ALL AUDIENCES
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
Iceland	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/iceland	Feature	18	Viewers over 18
		Trailer	0A	0 - ALL AUDIENCES
		Trailer	12	Viewers over 12
		Trailer	16	Viewers over 16
		Trailer	18	Viewers over 18
		Feature	L	L - All Ages
		Feature	12	Viewers over 12
India	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/india	Feature	16	Viewers over 16
		Feature	18	Viewers over 18
		Feature	07	Viewers over 7
		Feature	A	A
		Feature	U	U
Ireland	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/ireland	Feature	UA	U/A
		Trailer	A	A
		Trailer	U	U
		Trailer	UA	U/A
		Feature	12A	12A
		Feature	15A	15A
		Feature	G	G
		Feature	PG	PG
Feature	16	Viewers over 16		
Feature	18	Viewers over 18		
Trailer	12A	12A		
Trailer	15A	15A		

		Trailer	G	G
		Trailer	PG	PG
		Trailer	16	Viewers over 16
		Trailer	18	Viewers over 18
Israel	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/israel	Feature	AA	All Ages
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
		Feature	18	Viewers over 18
Italy	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/italy	Feature	BN	Banned
		Feature	G	G
		Feature	V4	VM 14
		Feature	V8	VM 18
		Trailer	BN	Banned
		Trailer	G	G
		Trailer	V4	VM 14
		Trailer	V8	VM 18
Japan	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/japan	Feature	G	G
		Feature	P2	PG-12
		Feature	R5	R-15
		Feature	R8	R-18
Jordan	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/jordan	Feature	BN	Banned
		Feature	GN	General
		Feature	18	Viewers over 18
		Trailer	BN	Banned
		Trailer	GN	General
		Trailer	18	Viewers over 18
Kenya	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/kenya	Feature	AO	Adults Only
		Feature	GE	GE
		Feature	U10	U10
		Feature	U16	U16
		Trailer	AO	Adults Only
		Trailer	GE	GE
		Trailer	U10	U10
		Trailer	U16	U16
Latvia	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/latvia	Feature	G	G
		Feature	N12	N-12
		Feature	N14	N-14
		Feature	N16	N-16
		Feature	N18	N-18
		Trailer	G	G
		Trailer	N12	N-12
		Trailer	N14	N-14
		Trailer	N16	N-16
		Trailer	N18	N-18
Lebanon	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/lebanon	Feature	BN	Banned
		Feature	GN	General

		Feature	15	Viewers over 15
		Feature	18	Viewers over 18
		Trailer	BN	Banned
		Trailer	GN	General
		Trailer	15	Viewers over 15
		Trailer	18	Viewers over 18
Lithuania	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/lithuania	Feature	AO	Adults Only
		Feature	AA	All Ages
		Feature	N16	N-16
		Feature	N7	N-7
		Feature	S	S
		Feature	T	T
Luxembourg	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/luxembourg	Feature	AA	All Ages
		Feature	16	Viewers over 16
		Trailer	AA	All Ages
		Trailer	16	Viewers over 16
Netherlands	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/netherlands	Feature	AL	AL
		Feature	12	Viewers over 12
		Feature	16	Viewers over 16
		Feature	06	Viewers over 6
		Feature	09	Viewers over 9
		Trailer	AL	AL
		Trailer	12	Viewers over 12
		Trailer	16	Viewers over 16
		Trailer	06	Viewers over 6
		Trailer	09	Viewers over 9
Nigeria	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/nigeria	Feature	12A	12A
		Feature	15A	15A
		Feature	G	G
		Feature	PG	PG
		Feature	RE	RE
		Feature	18	Viewers over 18
		Trailer	12A	12A
		Trailer	15A	15A
		Trailer	G	G
		Trailer	PG	PG
		Trailer	RE	RE
		Trailer	18	Viewers over 18
Norway	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/norway	Feature	AA	All Ages
		Feature	11	Viewers over 11
		Feature	15	Viewers over 15
		Feature	18	Viewers over 18
		Feature	07	Viewers over 7
		Trailer	AA	All Ages
		Trailer	11	Viewers over 11
		Trailer	15	Viewers over 15
		Trailer	18	Viewers over 18
		Trailer	07	Viewers over 7

Poland	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/poland	Feature	GC	Green Circle
		Feature	RC8	Red Circle 18
		Feature	18	Viewers over 18
		Feature	Y12	Yellow Circle 12
		Feature	Y7	Yellow Circle 7
		Feature	Y16	Yellow Circle16
		Trailer	GC	Green Circle
		Trailer	RC8	Red Circle 18
		Trailer	18	Viewers over 18
		Trailer	Y12	Yellow Circle 12
		Trailer	Y7	Yellow Circle 7
		Trailer	Y16	Yellow Circle16
		Portugal	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/portugal	Feature
Feature	M16			M/16
Feature	M18			M/18
Feature	M4			M/4
Feature	M6			M/6
Trailer	M12			M/12
Trailer	M16			M/16
Trailer	M18			M/18
Trailer	M4			M/4
Trailer	M6			M/6
Romania	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/romania	Feature	AG	A.G.
		Feature	AP	A.P.
		Feature	IM8	I.M. 18
		Feature	N15	N 15
		Feature	XXX	XXX
Singapore	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/singapore	Feature	G	G
		Feature	M8	M18
		Feature	N6	NC 16
		Feature	PG	PG
		Feature	21	R21
		Trailer	G	G
		Trailer	M8	M18
		Trailer	N6	NC 16
		Trailer	PG	PG
		Trailer	21	R21
Slovakia	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/slovakia	Feature	G	G
		Feature	P2	PG-12
		Feature	P5	PG-15
		Feature	P8	PG-18
		Trailer	G	G
		Trailer	P2	PG-12
South Africa	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/south-africa	Feature	FA	Family
		Feature	R8	R-18
		Feature	10	Viewers over 10
		Feature	013	Viewers over 13

		Feature	16	Viewers over 16
		Feature	18	Viewers over 18
		Trailer	FA	Family
		Trailer	R8	R-18
		Trailer	10	Viewers over 10
		Trailer	013	Viewers over 13
		Trailer	16	Viewers over 16
		Trailer	18	Viewers over 18
South Korea	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/south-korea	Feature	AA	All Ages
		Feature	P2	PG-12
		Feature	P5	PG-15
		Feature	18	Viewers over 18
		Trailer	AA	All Ages
Spain	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/spain	Feature	AA	All Ages
		Feature	013	Viewers over 13
		Feature	18	Viewers over 18
		Feature	07	Viewers over 7
		Trailer	AA	All Ages
		Trailer	013	Viewers over 13
		Trailer	18	Viewers over 18
		Trailer	07	Viewers over 7
Sweden	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/sweden	Feature	BN	Banned
		Feature	BTL	BTL - All Ages
		Feature	11	Viewers over 11
		Feature	15	Viewers over 15
		Feature	07	Viewers over 7
		Trailer	BN	Banned
		Trailer	BTL	BTL - All Ages
		Trailer	11	Viewers over 11
		Trailer	15	Viewers over 15
		Trailer	07	Viewers over 7
Switzerland	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/switzerland	Feature	E	E
		Feature	J	J
		Feature	J14	J14
		Feature	K	K
		Feature	K10	K10
		Feature	K8	K8
		Feature	SB	SB
Taiwan	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/taiwan	Feature	G	G
		Feature	P	P
		Feature	P2	PG-12
		Feature	R	R
		Trailer	G	G
		Trailer	R	R
Thailand	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/thailand	Feature	BN	Banned
		Feature	CL	Pass Clean
		Feature	CT	Pass with cuts

		Trailer	BN	Banned
		Trailer	CL	Pass Clean
		Trailer	CT	Pass with cuts
Turkey	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/turkey	Feature	AA	All Ages
		Feature	13	PG-13
		Feature	18	Viewers over 18
Ukraine	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/ukraine	Feature	07	Viewers over 7
		Feature	21X	21 X
		Feature	CH	Children
		Feature	GN	General
		Feature	16	Viewers over 16
		Feature	18	Viewers over 18
		Trailer	21X	21 X
		Trailer	CH	Children
		Trailer	GN	General
		Trailer	16	Viewers over 16
		Trailer	18	Viewers over 18
United Arab Emirates	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/united-arab-emirates	Feature	BN	Banned
		Feature	GN	General
		Feature	PG	PG
		Feature	15	Viewers over 15
		Feature	18	Viewers over 18
		Trailer	BN	Banned
		Trailer	GN	General
		Trailer	PG	PG
		Trailer	15	Viewers over 15
		Trailer	18	Viewers over 18
United Kingdom	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/united-kingdom	Feature	12A	12A
		Feature	18R	18R
		Feature	PG	PG
		Feature	U	U
		Feature	15	Viewers over 15
		Feature	18	Viewers over 18
		Trailer	12A	12A
		Trailer	18R	18R
		Trailer	PG	PG
		Trailer	U	U
		Trailer	15	Viewers over 15
		Trailer	18	Viewers over 18
United States	http://isdcf.com/schemas/draft/2011/cpl-metadata#rating-agency/us	Feature	G	G
		Feature	NC	NC-17
		Feature	PG	PG
		Feature	13	PG-13
		Feature	R	R
		Trailer	GB	Green Band
		Trailer	RB	Red Band

Table 2. Maturity Ratings.

6 Distributors

Distributor

Archangel Film Group
 Cinemalive
 Cromosoma, S.A.
 Disney
 Focus Features
 Feel Good Entertainment
 Fox Searchlight
 Icon Entertainment
 Lions Gate
 Momentum Pictures
 Miramax
 New Line
 Fox Atomic
 Pathe Distribution
 Dreamworks
 Paramount
 Paramount Vantage
 Picturehouse
 RealD
 Rogue Pictures
 Sony Pictures Entertainment
 Summit Entertainment
 Fox
 Universal
 Virtual Experience
 Dimension
 Weinstein Co.
 Warner Bros.
 MGM

Table 3. Distributor values.

7 Facilities

Facility

Arts Alliance Media
 Admovies Digital Cinema Advertising
 Arri Digital Cinema
 Amazing Digital Studios
 Asci International
 Access It (Obs., See Cinedigm)
 Artech Dcinema
 Ascent Media
 Dcp Australia
 Auwe Digital
 Audio Visual Factory
 AV Grid

Authorwave Creations
Bewegte Bilder Medien AG
Brickbox Digital Media
B-Mac Lab
Bug AS, Norway
Cineact
Color By Dejonghe
Cinema Concepts
Carmike Digital Lab
Cosmodigital
Cineworks Digital Studios, Inc. - Miami
CGR Digital Cinema
Cinedigm
Cj Powercast Art And Technology
Cineworks, LA - New Orleans
Cinelab
Colorflow
Company 3
Colorfront
Cinepostproduction
Cinesync Poland
Cinetec Landfried GmbH
D2
Dcp24 Laboratory
D2 Benelux
D2 China
D2 Italia
Digital360, S.L.
Deluxe Australia
Digital Cut
Digicine Russia
Digital Cinema Ukraine
Digital Devoid, Inc
Deluxe Digital Rome
Digital Factory (France)
Point.360 DFL
Dolby UK
Digimage Cinema
Deluxe LA
Dolby LA
Deluxe Digital Cinema New York
Dolby NY
Digipix Australia
Digital Pictures Melbourne
Divo Post Production
Deluxe Spain
Deluxe UK
Dvs Intelstream/CCI Digital
Europacorp
Éclair Labs
Electric Cinema And Sound Studios
E-Film
Esprit Film And Television Limited

Eglifilm Postproduction
Encore Hollywood
ExpressDCP
Film And Digital Cinema
Final Frame
Focus-Fox Studio
Fotokem
Farbkult
Filmprint Digital
Framestore
Fresto Post – Indonesia
Fsm
Gdc Technology Limited
Genesis Film
Home Box Office
Hinterland
Industrias Audiovisuales Argentinas SA
ICS Laboratoire Digita
Imagica
Image & Light
Imax
In-Three
L'Immagine Ritrovata
Point.360 LVC
Konveyer Lab
Kinotur
Labodigital
Leo Valen
Local Hero Post
Lightiron Digital
Listo Videofilm
Laserpacific
L'Espace Vision Co., Ltd
Les Machineurs
Mikros Image
Mistika Post
Magna Mana Production
Modern Videofilm
Molinare UK
Motionlink
Warner Bros. Motion Picture Imaging
Motion Picture Solutions
Msp-Showtechnik
Nedcipro BV
Nevafilm
Nordisk Film Digital Production
Optical Art
Open Gate
Offhollywood
Oriental Post Co., Ltd
Protronic AG
Prime Focus Bangalore
Prime Focus Chennai

Prime Focus Goa
 Prime Focus Hollywood
 Prime Focus London
 Prime Focus Mumbai
 Prime Focus New York
 Prime Focus Hyderabad
 Pirana
 Post Logic
 Postcolor
 Promoscape
 Pacific Title
 Postique Co., Ltd
 Puzzle Film & Video
 Postworks
 Pixar
 Pianeta Zero
 Qube Cinema
 RealD
 Real Image, Chennai
 Real Image, Mumbai
 Scanlab France
 Colorworks
 Soho Digital Media
 Studio Element
 Spurenelemente
 Soho Film Lab
 Shaw Studios
 Twentieth Century Fox
 Technicolor Digital Cinema LA
 Trench Entertainment
 Technicolor Digital Cinema UK
 Technischer Film Dienst
 Titra Film Geneva
 Universal Studios Digital Services
 Vidéo De Poche
 Virtual Experience
 Vision Globale
 Visar Studio
 Videobolaget Post Production
 Vi.So. Virtual Solution
 Xdc Digital Lab
 Ymagis
 Ymagifilm
 Zwanenburg AV
 Zeus DCP

Table 4. Facility Values

8 Soundfield and Channels

Soundfields	Description
-------------	-------------

c51	Configuration 1 in SMPTE ST 429-2
c61	Configuration 2 in SMPTE ST 429-2
cSDS	Configuration 3 in SMPTE ST 429-2
cWTF	Configuration 4 in SMPTE ST 429-2
c71	Configuration 5 in SMPTE ST 429-2

Table 5. Soundfields.

Channels	Description
L	Left
R	Right
C	Center
LFE	LFE
LSS	Left Side Surround
RSS	Right Side Surround
LC	Left of center
RC	Right of center
LRS	Left rear surround
RRS	Right rear surround
LS	Left surround
RS	Right surround
HI	Hearing impaired
VIN	Visually impaired
D1	D-BOX Primary Stream
D2	D-BOX Secondary Stream
CH01	Channel 1 of Configuration 4 in SMPTE ST 429-2
CH02	Channel 2 of Configuration 4 in SMPTE ST 429-2
CH03	Channel 3 of Configuration 4 in SMPTE ST 429-2
CH04	Channel 4 of Configuration 4 in SMPTE ST 429-2
CH05	Channel 5 of Configuration 4 in SMPTE ST 429-2
CH06	Channel 6 of Configuration 4 in SMPTE ST 429-2
CH07	Channel 7 of Configuration 4 in SMPTE ST 429-2
CH08	Channel 8 of Configuration 4 in SMPTE ST 429-2
CH09	Channel 9 of Configuration 4 in SMPTE ST 429-2
CH10	Channel 10 of Configuration 4 in SMPTE ST 429-2
CH11	Channel 11 of Configuration 4 in SMPTE ST 429-2
CH12	Channel 12 of Configuration 4 in SMPTE ST 429-2
CH13	Channel 13 of Configuration 4 in SMPTE ST 429-2
CH14	Channel 14 of Configuration 4 in SMPTE ST 429-2
CH15	Channel 15 of Configuration 4 in SMPTE ST 429-2
CH16	Channel 16 of Configuration 4 in SMPTE ST 429-2

Table 6. Channel Values

9 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://isdcf.com/schemas/draft/2012/cpl-metadata"
  xmlns:cpl="http://www.smpte-ra.org/schemas/429-7/2006/CPL"
  xmlns:meta="http://isdcf.com/schemas/draft/2012/cpl-metadata"
  attributeFormDefault="unqualified"
  elementFormDefault="qualified">
```

```

<xs:import namespace="http://www.smpte-ra.org/schemas/429-7/2006/CPL"
  schemaLocation="includes/cpl.xsd"/>
<xs:element name="CompositionMetadataAsset"
type="meta:CompositionMetadataAssetType"/>
<xs:complexType name="CompositionMetadataAssetType">
  <xs:complexContent>
    <xs:extension base="cpl:GenericAssetType">
      <xs:sequence>
        <xs:element name="ReleaseRegion" minOccurs="0">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
                <xs:attribute
default="http://isdcf.com/schemas/draft/2011/cpl-metadata#scope/release-
region/UNM49"
                name="scope" type="xs:anyURI"/>
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element name="Distributor" type="xs:string" minOccurs="0"/>
        <xs:element name="Facility" type="xs:string" minOccurs="0"/>
        <xs:element minOccurs="0" name="StereoscopicLuminance">
          <xs:simpleType>
            <xs:restriction base="xs:decimal">
              <xs:minExclusive value="0"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="MainSoundConfiguration" minOccurs="1">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
                <xs:attribute
default="http://isdcf.com/schemas/draft/2011/cpl-metadata#scope/mainsound-
configuration"
                name="scope"/>
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element name="MainPictureActiveArea" minOccurs="1">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Height">
                <xs:simpleType>
                  <xs:restriction base="xs:decimal">
                    <xs:minExclusive value="0"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
              <xs:element name="Width">

```

```

        <xs:simpleType>
            <xs:restriction base="xs:decimal">
                <xs:minExclusive value="0"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
    <xs:element minOccurs="0" name="MainSubtitleLanguageList">
        <xs:simpleType>
            <xs:restriction base="meta:LanguageListType">
                <xs:minLength value="1"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="ExtensionMetadata" maxOccurs="unbounded"
minOccurs="0"
        type="meta:ExtensionMetadataType"> </xs:element>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExtensionMetadataType">
    <xs:sequence>
        <xs:element name="Name" type="xs:string"/>
        <xs:element minOccurs="0" name="PropertyList">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="Property" maxOccurs="unbounded">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="Name" type="xs:string"/>
                                <xs:element name="Value" type="xs:string"/>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:any namespace="##other" maxOccurs="unbounded" minOccurs="0"
processContents="lax"/>
    </xs:sequence>
    <xs:attribute name="scope" type="xs:anyURI" use="required"/>
</xs:complexType>
<xs:simpleType name="LanguageListType">
    <xs:restriction>
        <xs:simpleType>
            <xs:list itemType="xs:language"/>
        </xs:simpleType>
    </xs:restriction>
</xs:simpleType>
</xs:schema>

```

10 Example Instance

The following is a sample CompositionMetadataAsset instance conforming to this specification. This sample is neither intended to capture current or future practice, nor exercise all normative language contained in this specification.

For illustration, the sample instance contains two extension metadata.

```
<meta:CompositionMetadataAsset xmlns:cpl="http://www.smpte-ra.org/schemas/429-7/2006/CPL"
  xmlns="http://isdcf.com/schemas/draft/2012/cpl-metadata"
  xmlns:meta="http://isdcf.com/schemas/draft/2012/cpl-metadata"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:tkr="http://isdcf.com/schemas/draft/2012/tkr"
  xsi:schemaLocation="http://isdcf.com/schemas/draft/2012/cpl-metadata cpl-
metadata-asset-20120226.xsd http://isdcf.com/schemas/draft/2012/tkr tkr.xsd">
  <cpl:Id>urn:uuid:550e8400-e29b-41d4-a716-446655440000</cpl:Id>
  <cpl:EditRate>24 1</cpl:EditRate>
  <cpl:IntrinsicDuration>24000</cpl:IntrinsicDuration>
  <ReleaseRegion>001</ReleaseRegion>
  <Distributor>Lions Gate</Distributor>
  <Facility>Arri Digital Cinema</Facility>
  <StereoscopicLuminance>14</StereoscopicLuminance>
  <MainSoundConfiguration>5.1 (R, L, C, LFE, LS, RS, HI, VI) </MainSoundConfiguration>
  <MainPictureActiveArea><Height>2048</Height><Width>856</Width></MainPictureActive
Area>
  <MainSubtitleLanguageList>fr-ca es-419</MainSubtitleLanguageList>
  <ExtensionMetadata scope="http://imax.com/spec/2012">
    <Name>IMAX</Name>
    <PropertyList>
      <Property>
        <Name>Version</Name>
        <Value>1.0</Value>
      </Property>
    </PropertyList>
  </ExtensionMetadata>
  <ExtensionMetadata scope="http://isdcf.com/schemas/draft/2012/tkr#scope">
    <Name>Theatre Key Retrieval</Name>
    <tkr:BaseUrl>http://hello.com</tkr:BaseUrl>
  </ExtensionMetadata>
</meta:CompositionMetadataAsset>
```