update-this-filename-field

OSA Vocabulay

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**Title Page**

This page will be provided by SMPTE HQ Staff.

See AG-16 clause 3.1 (Title Page), and ISO Directive Part 2 clause 11 (Title).

Proposed SMPTE Standard

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# Foreword

See AG-16 3.2 (Foreword), and ISO Directive Part 2 clause 12 (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 TC-30MR.

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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; then formal languages; then figures; and then any other language forms.

If this is a revision, a topical list of changes [should/shall be included here]

# Introduction

An Introduction section is Optional / Conditional

The introduction provides specific information or commentary about the technical content of the document, and about the reasons prompting its preparation. See AG-16 clause 3.3 (Introduction), AG-16 clause 4.2 (Conformance Terms), and ISO Directive Part 2 clause 13 (Introduction).

This section is entirely informative and does not form an integral part of this Engineering Document.

SMPTE ST 2117-1 (VC-6) is a versatile intra-frame compression scheme. This document maps the VC-6 bitstream into the MXF Generic Container. The usage of this mapping to synchronise with other components such as audio and video is outside the scope of this document.

The MXF Generic Container is a streamable Essence Container that can be placed on any suitable transport and stored. SMPTE ST 379-1 defines the MXF Generic Container as the native Essence Container in MXF files. SMPTE ST 379-2 defines the MXF Constrained Generic Container.

Other MXF mapping documents such as SMPTE ST 382 define how Audio can be mapped and synchronised with the video stream in the MXF Generic Container.

[Editors notes: The following paragraph will be replaced with the appropriate patent information during the SMPTE Headquarters publication process.]

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# 1 Scope

The scope clearly defines the subject of the document and the aspects covered, thereby indicating the limits of applicability of the document. See AG-16 clause 3.4 (Scope), and ISO Directive Part 2 clause 14 (Scope).

This Standard constrains the MXF mapping of SMPTE ST-2117-1 into the MXF Generic Container or MXF Constrained Generic Container.

# 2 Normative References

The normative references clause lists, for information, those documents which are cited normatively in the document. See AG-16 clause 3.5 (Normative References), AG-16 clause 4.3 (Normative References to Standards and Recommended Practices), and the ISO Directives Clause 15 (Normative References).

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# 3 Terms and Definitions

The terms and definitions clause provide definitions necessary for the understanding of certain terms used in the document. See AG-16 clause 3.6 (Terms and Definitions), AG-16 clause 4.4 (Terms and Definitions), and ISO Directive Part 2 clause 16 (Terms and Definitions).

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# 4 MXF File Structure and Mapping

## 4.1 General

SMPTE ST-2117-10 MXF files specified by this document shall have one of the two structures illustrated in Figure 1 and Figure 2 respectively. **HPP** is an shorthand for Header Partition Pack, **BPP** is an shorthand for Body Partition Pack and **FPP** is a shorthand for Footer Partition Pack.

In the source markdown - this shows how to do a figure



In the source markdown - this shows how to do a figure caption. In ISO, caption figures are below pictures and table captions are above figures. The syntax starting with ::: is known as a fence block and creates a section with a paragraph style in word.

Figure 1 - Single Essence Location Style

## 4.2 Heading 2

As shown in Figure 1, this style consists of a Header Partition, a Footer Partition, and a Random Index Pack.

A bulletted list.

* It is easy to handle because of a simple structure
* It is easy to edit while file transferring
* It is easy to select an extract, or a “Partial file”

A numbered list.

1. Index Table Segment::Single Index Location TRUE (Single Location)
2. Index Table Segment::Single Location TRUE (Single Location)
3. Index Table Segment::Forward Index Direction TRUE (Forward)
4. Preface:: is RIP present TRUE

## 4.3 Code example

Figure 2 below shows some raw JSON for the term Interoperability

{  
 "@id": "https://vocabulary.pbs.org/OSAGlossary/63",  
 "@type": ["http://www.w3.org/2004/02/skos/core#Concept"],  
 "http://purl.org/dc/terms/contributor": [{  
 "@id": "https://vocabulary.pbs.org/user/hubbards"  
 }],  
 "http://purl.org/dc/terms/created": [{  
 "@type": "http://www.w3.org/2001/XMLSchema#dateTime",  
 "@value": "2021-05-20T17:36:31.650Z"  
 }],  
 "http://purl.org/dc/terms/creator": [{  
 "@id": "https://vocabulary.pbs.org/user/hubbards"  
 }],  
 "http://purl.org/dc/terms/modified": [{  
 "@type": "http://www.w3.org/2001/XMLSchema#dateTime",  
 "@value": "2021-05-21T01:00:15.850Z"  
 }],  
 "http://www.w3.org/2004/02/skos/core#definition": [{  
 "@language": "en",  
 "@value": "NIST: The ability of two or more systems or applications to exchange information and to mutually use the information that has been exchanged."  
 }],  
 "http://www.w3.org/2004/02/skos/core#prefLabel": [{  
 "@language": "en",  
 "@value": "Interoperability"  
 }],  
 "http://www.w3.org/2004/02/skos/core#scopeNote": [{  
 "@language": "en",  
 "@value": "NIST SP 500-XXX: The NIST Cloud Federation Reference Architecture (Draft)"  
 }, {  
 "@language": "en",  
 "@value": "OSA Vocabulary Group (Proposed)"  
 }],  
 "http://www.w3.org/2004/02/skos/core#topConceptOf": [{  
 "@id": "https://vocabulary.pbs.org/OSAGlossary/0"  
 }]  
}

Figure 2 - JSON in the raw

Table 1 - Output from raw JSON

|  |  |
| --- | --- |
| Term | Definition (too complex with Pandoc} |
| Interoperability | No substitution possible |

Figure 3 below shows an alternative *smunched* version of the .jsonld file to make the documents easier to generate. Basically it rearranges the JSON so that it’s easy for a human to reference a term rather than manage an abstract list of terms with generic relationships.

{  
 "Interoperability": {  
 "@id": "63",  
 "contributor": "hubbards",  
 "definition": "NIST: The ability of two or more systems or applications to exchange information and to mutually use the information that has been exchanged.",  
 "label": "Interoperability",  
 "note": "NIST SP 500-XXX: The NIST Cloud Federation Reference Architecture (Draft)",  
 "status": "Proposed"  
 }  
}

Figure 3 - smunched JSON

Table 2 - Output from smunched JSON

|  |  |  |  |
| --- | --- | --- | --- |
| # | Term | Definition | Note |
| 63 | Interoperability | NIST: The ability of two or more systems or applications to exchange information and to mutually use the information that has been exchanged. | NIST SP 500-XXX: The NIST Cloud Federation Reference Architecture (Draft) |

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International Organization for Standardization (ISO) / International Electrotechnical Commission (IEC), Directives, Part 2:2016-05, Principles and rules for the structure and drafting of ISO and IEC documents, 7.0

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