

SMPTE STANDARD

Mapping a VC-2 Stream into the MXF Generic Container



Table of Contents

	Page
Foreword	3
Intellectual Property	3
1 Scope	4
2 Conformance Notation	4
3 Normative References	4
4 Glossary of Acronyms, Terms and Data Types	5
4.1 VC-2 Terms and Notation.....	5
5 Overview (Informative).....	5
6 VC-2 Stream Syntax (Informative).....	6
7 The Wrapped VC-2 Stream	6
7.1 Edit Units of the Wrapped VC-2 Stream.....	6
7.2 Understanding the Wrapped VC-2 Stream (Informative)	6
7.3 Wrapping a VC-2 Stream Comprised of Multiple VC-2 Sequences (Informative).....	7
8 KLV Coding of the VC-2 Stream	7
8.1 Picture Element Key	7
8.2 Picture Element Length (Informative).....	8
8.3 Picture Element Value (Informative).....	8
9 VC-2 Essence Container Label.....	8
10 VC-2 Picture Essence Compression Label.....	8
11 Essence Descriptors for VC-2.....	9
11.1 VC-2 Sub-Descriptor	9
11.1.1 Understanding the VC-2 Sub-Descriptor (Informative)	10
12 Index Tables (Informative)	11
13 Operating Mode A	11
13.1 Understanding Operating Mode A (Informative).....	11

Annex A Using the Wrapped VC-2 Stream (Informative) 12

- A.1 Scenarios 12
 - A.1.1 Unwrapping the entire wrapped VC-2 stream 12
 - A.1.2 Unwrapping part of the wrapped VC-2 stream 12
 - A.1.3 Editing..... 12
- A.2 Relevant VC-2 Sequence Details 12
 - A.2.1 End of sequence Parse Info header 12
 - A.2.2 Parse Info header parse offsets 13
 - A.2.3 `picture_number` sequence..... 13

Annex B CDCI Picture Essence Descriptor Mapping (Normative)..... 14

Bibliography 21

Foreword

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1 Scope

This document specifies the mapping of VC-2 coded pictures into MXF. Specifically, it defines how to map a VC-2 stream (or part of a stream) into a Picture Element of a MXF generic container.

This standard specifies the Key, Length and Value fields of a VC-2 Picture Element. This standard also defines the Essence Container Label and Picture Essence Compression Label, a VC-2 Sub-Descriptor and the mapping of information from the VC-2 stream to the CDCI Picture Essence Descriptor.

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

3 Normative References

The following standards contain provisions that, through reference in this text, constitute provisions of this standard. 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.