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English Version

## Guideline for the implementation of the Cinema Preservation Package (CPP) in EN 17650

Lignes directrices relatives à la mise en œuvre du  
paquetage de conservation cinéma (CPP) dans  
l'EN 17650

Leitlinien für die Umsetzung des Cinema Preservation  
Package (CPP) in EN 17650

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# Contents

Page

European foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Abbreviations.....	5
5 Syntax convention used in this document .....	6
6 Usage of XML schemas in CPP .....	9
Annex A (informative) Structure of the Cinema Preservation Package.....	10
Annex B (informative) Naming Conventions in Cinema Preservation Packages.....	25
Annex C (informative) Technical metadata in subpackages .....	28
Annex D (informative) Descriptive Metadata of CPP .....	79
Annex E (informative) Usage of playlists in CPP .....	93
Annex F (informative) Checker Reports in CPP .....	96
Annex G (informative) Usage of CPP in archive context .....	98
Annex H (informative) FAQ (Frequently Asked Questions).....	100
Bibliography .....	102

## European foreword

This document (CEN/TR 17862:2022) has been prepared by Technical Committee CEN/TC 457 “Digital preservation of cinematographic works”, the secretariat of which is held by DIN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared based on the Rolling Plan for ICT standardization 2015-2018.

This document serves as implementation guide to the European Standard EN 17650: *A framework for digital preservation of cinematographic works — The Cinema Preservation Package*.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

## Introduction

This document is part of a series of standards and technical recommendations for the digital preservation of cinematographic work. It gives European film archives and producers a guideline how to store and manage film content in the digital age.

Versions of digital cinematographic work using different encoding formats can be preserved in a layered structure where the lowest level is describing the physical file. The files can carry data representing images, sound, movies, subtitles, metadata or ancillary information like QC reports or film posters.

To structure these files in a consistent and interoperable way, the Cinema Preservation Package (CPP) is specified and adds additional metadata like file lists, links or hash values. The Cinema Preservation Package uses different XML files to store these additional metadata. The XML files are based on existing schemas with extensions, in particular METS, EBUCore and PREMIS. The XML files also contain hash values to ensure data integrity and version control. The syntax for this description and the methods for the hash value generation are specified in EN 17650. Various types of content coding are described as reference for concrete implementations.

The Cinema Preservation Package is well suited to serve as a Submission Information Package (SIP) in an OAIS compliant preservation system [2] and/or as a self-contained exchange format between media archives. The CPP does not necessarily contain a complete cinematographic work, it can also be used for exchange of parts of a work (see Annex G).

## 1 Scope

This document describes the implementation of the Cinema Preservation Package (CPP) to facilitate the digital preservation of cinematographic works. The related standard EN 17650 specifies methods to describe the relationship of components of the cinematographic work and delivers syntax to describe the package content. EN 17650 specifies the structure of the package and the constraints that are necessary to enable compliance and interoperability. This document gives additional information how to implement EN 17650 and gives additional explanations to the structure.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 17650, *A framework for digital preservation of cinematographic works — The Cinema Preservation Package*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17650 and the following apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **ancillary data**

small additional data supporting other data in the same hierarchy, preferably annotations

### 3.2

#### **element**

simple or essential part of which anything exists

### 3.3

#### **file**

collection of information stored on a digital storage medium

### 3.4

#### **persistent identifier**

unique identifier that ensures permanent access for a digital object by providing access to it independently of its physical location or current ownership

### 3.5

#### **preservation**

act of maintaining information in a correct and independently understandable form over a long time

## 4 Abbreviations

ACES      Academy Color Encoding System

ASCII      American Standard Code for Information Interchange