Digital Music, Photo, and Video Collections

MPV Document Profile Specification

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8 December 2003

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This document is available at http://www.osta.org/mpv/mpvmbrs/specs/MPVDoc-Spec-0.11WD.PDF
ABSTRACT

The MPV Document Profile Specification defines the MPV implementation practices and schema for how to identify metadata about an MPV manifest, including the application that wrote the manifest and previous manifests upon which it is based.

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REVISION HISTORY

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LICENSING

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## Table of MPV Document Requirements

The following table is a comprehensive list of the requirements specified by the MPV Document Profile specification, ordered by Requirement Number. This list can provide a quick reference guide to the specification and also is useful to quickly lookup more information about a specific requirement by number.

### WRITEER REQUIREMENTS

DOW100-1 mpvd:writtenBy attribute. The file:Manifest element MUST have the mpvd:writtenBy attribute, which identifies the application that wrote this specific MPV manifest. The attribute is updated everytime the manifest is modified in any way. .............................. 11

### READER REQUIREMENTS

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### COMMON REQUIREMENTS

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Chapter 1: Introduction

1.1 Executive Summary

MPV (MusicPhotoVideo) is an open, multiplatform specification for playlists and asset management of digital music, photo, and video files. MPV makes easier the representation, exchange, processing and playback of collections of digital media content, including music, still images, stills with audio, still sequences, video clips, and audio clips.

The MPV Document Profile Specification defines the MPV implementation practices and schema for how to identify metadata about an MPV manifest, including the application that wrote the manifest and previous manifests upon which it is based.

MPV playlists can be enjoyed in consumer electronics products such as a CD or DVD player or on a PC. MPV playlists and the content they reference are unlike audio CDs and DVD-Video discs because they store the multimedia content like MP3 and JPEG files in formats used by PCs on a “data CD”.

MPV is an open format developed under the leadership of the Optical Storage Technology Association (OSTA) and available from OSTA at no cost. Information regarding the MPV Specification, SDK for software developers, and logo licensing program can be found at www.osta.org/mpv.

SITUATION TODAY

Consumers create CDs full of personal digital content – music, photo, and video content in PC file formats like MP3, JPEG and MPEG – captured by digital cameras, photofinishing retailers, personal music collections, and PC multimedia applications. The expectation and desire of consumers is to enjoy the playback experience not only in PCs but wherever a player can go -- in their home entertainment environment, in their car or in their pocket.

Today, most consumer electronic (CE) devices do not recognize the content on CDs created by PC applications or retail services or do so poorly. Because each application stores the content on a disc uniquely, there is no standard way for CD and DVD players to recognize and playback the content. And the user playback experience is different between each CE device.

Without a standard method for organization and access, the CE device can take many minutes reading through large collections of multimedia content or will present filesystem views of the data. Consumers get frustrated with trying to find and quickly access their desired music, photo, or video content.

CE devices are starting to add support for PC formats. MP3 for music has enjoyed wide spread adoption in DVD player, car stereo, and personal music systems. Support for JPEG for photos is growing in consumer electronics products. MPEG1 and MPEG2 video is already broadly adopted by both PC and CE industries. Additional formats
are emerging and growing in popularity, such as Windows Media Audio (WMA), ATRAC3, MPEG4 Audio (AAC), and more.

**MPV Benefits Consumers**

When applications and application both write and read MPV, consumers will enjoy enhanced interoperability of content between applications and devices from any vendor. This gives consumers more choice and vendors greater ability to innovate and differentiate.

### 1.2 MPV Profiles

The MPV specification is developed in a modular manner and in phases. This results in "profiles". Each profile in MPV defines only those formats and practices that are necessary for the key tasks targeted by the profile. MPV Document Profile makes use of the Core specification, which defines the overall framework of all MPV profiles.

### 1.3 Terms of Use

This section of the specification is descriptive and not intended to be complete nor definitive. Please refer to the definitive statement of licensing terms at the beginning of the MPV specification document for a precise and legal description.

The MPV specification is developed using an open process. The resulting specification is available from OSTA. No royalty is charged by OSTA for use of the specification. The overall desire is to develop a specification that is not subject to separate licensing requirements or royalty. During the development process, the expectation is that all participants contribute their efforts and intellectual property without any expectation or requirement for compensation. However, OSTA does not warrant that the specification is not or will not be subject to such claims by other parties.
Chapter 2: MPV Document Profile 1.0

2.1 MPV Document Introduction

The MPV Document Profile makes use of existing MPV specification ([MPVCore]) and combines them with additional specific requirements to define tightly the usage of these MPV profiles to guarantee interoperability between devices and applications that conform to the MPV Playlists specification.

Conformance with the MPV Document Profile specification is required for use of the MPV Logo on products.

The MPV Document Profile introduces limited new schema and practices.

2.2 MPV Specification Practices

The MPV Document Specification establishes three important practices.

1. All practices are qualified using the keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD, SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL, if and where they appear in this document, are to be interpreted as described in [RFC2119].

   The keywords are classified into three imperative levels. All words at a given level have the same level of imperative.
   - Level 1: MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT
   - Level 2: SHOULD, SHOULD NOT
   - Level 3: RECOMMENDED, MAY, OPTIONAL

   For conformance testing, the keyword imperative levels are treated as warning levels, with the following meaning:
   - Level 1: Error -- MUST be fixed.
   - Level 2: Severe Warning -- SHOULD be fixed to enhance compatibility.
   - Level 3: Warning -- RECOMMEND to be fixed. Not critical to compatibility.

2. All practices are classified as either Common, Writer, or Reader requirements. Common requirements are practices that are relevant to both Writers and Readers. Writer requirements identify specific MPV content that Writers must produce; Reader requirements identify specific behaviours that Readers must implement.

3. All practices are identified with a unique “requirement number” by which they may be referenced easily.
For example, a verification tools could output results and reference the requirement by number. Practices are identified using a prefix plus a number. This specification uses the letters “DO” plus the letter “C” for common, “W” for writer, or “R” for reader, plus the specification version number without the decimal separator as the prefix, as in PL100-83. A future revision of the specification might identify the same requirement by a different number if the number or order of the requirements were to change, e.g. DO110-85.

2.3 Formalities For Use of the MPV Document Profile

The mechanism that MPV uses to add capabilities to the Core specification is the Profile. MPV Core sets out specific formalities to follow when a MPV Profile is used -- an MPV file must declare which profiles it implements and it must declare the namespaces of the profiles. This allows a processing application to quickly determine whether a given MPV file meets its expectations for processing.

PROFILE COMPONENTS

The MPV Document Profile 1.0 makes use of the MPV Core 1.0 Specification [MPVCore].

The MPV Document Profile 1.0 includes the schema and practices detailed by this document.

COMPATIBILITY

The MPV Document Profile 1.0 is fully compatible with the MPV framework established by [MPVCore]. Thus MPV files that implement the MPV Document Profile 1.0 should be readable by most MPV-aware applications and devices that are not in conformance with the MPV Document Profile.

Applications and devices that conform to the MPV Document Profile 1.0 specification will provide the user a consistent user experience around the handling of MPV documents (manifests).

SCHEMA NAMESPACE

The MPV Document Profile specification defines some schema, which uses the Document namespace.

<table>
<thead>
<tr>
<th>Schema group</th>
<th>Namespace Identifier</th>
<th>Schema Location</th>
<th>Conventional Namespace Prefix</th>
</tr>
</thead>
</table>

The introductory schema information is expressed as follows.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  elementFormDefault="qualified" attributeFormDefault="qualified">
```

PROFILE IDENTIFIER

This information must be present in the Profile section of the MPV Manifest.

| MPV Document Profile Name | http://ns.osta.org/mpv/document/1.0/ |
EXAMPLE

2.4 MPV Document Profile

DOW100-1 MPV Document Profile. The MPV Document profile MUST be implemented and declared.

This practice confirms that the manifest implements the MPV Document profile.

Example:

```xml
<file:Manifest
  mpvd:writtenBy="http://www.mycompany.com/myapp/1.05/"
  mpvd:documentIdRef="ID000001"
  xmlns:file="http://ns.osta.org/manifest/1.0/"
  xmlns:mpv="http://ns.osta.org/mpv/1.0/"
  xmlns:mpvp="http://ns.osta.org/mpv/presentation/1.0/"
  xmlns:mpvm="http://ns.osta.org/mpv/music/1.0/"
  xmlns:mpvd="http://ns.osta.org/mpv/document/1.0/"
  xmlns:nmf="http://ns.osta.org/nmf/1.0/" >
  <nmf:Metadata>
    <ManifestProperties xmlns="http://ns.osta.org/manifest/1.0/">
      <ProfileBag>
        <Profile>http://ns.osta.org/mpv/basic/1.0/</Profile>
        <Profile>http://ns.osta.org/mpv/presentation/1.0/</Profile>
        <Profile>http://ns.osta.org/mpv/music/1.0/</Profile>
        <Profile>http://ns.osta.org/mpv/document/1.0/</Profile>
      </ProfileBag>
    </ManifestProperties>
  </nmf:Metadata>
...`
```
Chapter 3: MPV Document Profile Schema

3.1 Attributes in <file:Manifest> element

3.1.1 mpvd:writtenBy attribute

DOW100-I mpvd:writtenBy attribute. The file:Manifest element MUST have the mpvd:writtenBy attribute, which identifies the application that wrote this specific MPV manifest. The attribute is updated everytime the manifest is modified in any way.

This practice is to guarantee that a reader can quickly determine whether it knows the application that wrote the manifest. Because this attribute is in the opening element of the manifest, it enables easy transfer of the manifest processing to one of several possible readers that provide differing behaviours and levels of validation. This attribute can also be used by a MPV launcher to preferentially launch the application that wrote the manifest. Note that the value of the attribute MUST be a URN-style value to minimize the risk of value collision.

Example:

```xml
<file:Manifest
  mpvd:writtenBy="http://www.mycompany.com/myapp/1.05/"
  mpvd:documentIdRef="ID000001"
  xmlns:file="http://ns.osta.org/manifest/1.0/"
  xmlns:mpv="http://ns.osta.org/mpv/1.0/"
  xmlns:mpvp="http://ns.osta.org/mpv/presentation/1.0/"
  xmlns:mpvm="http://ns.osta.org/mpv/music/1.0/"
  xmlns:mpvd="http://ns.osta.org/mpv/document/1.0/"
  xmlns:nmf="http://ns.osta.org/nmf/1.0/" >
...
</file:Manifest>
```

3.1.2 mpvd:documentIdRef attribute

DOW100-Error! Bookmark not defined. mpvd:documentIdRef attribute. The file:Manifest element SHOULD have the mpvd:documentIdRef attribute and MUST have the attribute if the manifest is derived from another manifest.

This practice conforms to [MPVDoc] and is very useful for applications that are looking for the rich metadata information about the current document. For example, a typical use will be to look up the referenced mpv:Document asset, then look at its <mpv:Related mpv:relationship="derivedFrom"> element to locate a previous manifest from which the current manifest was derived.
3.2 mpv:Document Content

3.2.1 mpv:InstanceID of the Manifest

DOW100-Error! Bookmark not defined. mpv:InstanceID of the Manifest. The mpv:Document asset representing the manifest itself MUST have the mpv:InstanceID element.

The mpv:InstanceID is a unique number for every manifest.

**Example:**

```xml
<file:Manifest
  mpv:writtenBy="http://www.mycompany.com/myapp/1.05/"
  mpv:documentIDRef="ID000001"
  xmlns:file="http://ns.osta.org/manifest/1.0/"
  xmlns:mpv="http://ns.osta.org/mpv/1.0/"
  xmlns:mpvp="http://ns.osta.org/mpv/presentation/1.0/"
  xmlns:mpvm="http://ns.osta.org/mpv/music/1.0/"
  xmlns:mpvd="http://ns.osta.org/mpv/document/1.0/"
  xmlns:nmf="http://ns.osta.org/nmf/1.0/" >
...
</file:Manifest>
```

3.2.2 Dublin Core Properties of the Manifest

DOW100-Error! Bookmark not defined. dc properties of the Manifest. The mpv:Document asset representing the manifest itself SHOULD have the dc properties to set important information about the manifest’s content, including: creator, description, format, identifier, publisher, rights, title, created, modified.

The mpv:Document representing the MPV manifest itself can have any kind of data associated with it. Of principle interest are the Dublin Core properties are highly interchangeable.

The usage of the Dublin Core properties for the MPV Document profile are:

**DC Elements:**
Creator – plain text name of creator application or device
Description – any kind of description, possibly from a user
3.2.3 Locale of the Manifest

**DOW100-Error! Bookmark not defined. Locale of the Manifest.** The mpv:Document asset representing the manifest itself SHOULD have the dc:language element set to the default locale of the manifest's content.

This practice conforms to [MPVDoc]. The MPV manifest is authored for a single “locale”, where a locale is a combination of language and territory, such as English-U.S. The locale of a manifest is recorded as a dc:language element of the manifest’s own mpv:Document asset. The default locale of all text in the manifest is identified by the dc:language element within the mpv:Document element representing the current manifest. A player MAY honor the use of dc:language for purposes of sorting, line wrapping, currency, and other values.

Example:

```
<file:Manifest
  mpvd:writtenBy="http://www.mycompany.com/myapp/1.05/"
  mpvd:documentIdRef="ID000001"
  xmlns:file="http://ns.osta.org/manifest/1.0/"
  xmlns:mpv="http://ns.osta.org/mpv/1.0/"
  xmlns:mpvp="http://ns.osta.org/mpv/presentation/1.0/"
  xmlns:mpvm="http://ns.osta.org/mpv/music/1.0/"
  xmlns:mpvd="http://ns.osta.org/mpv/document/1.0/">
  ...
  <mpv:AssetList>
    <![CDATA[ This asset describes this very MPV Manifest -->]]>
    <mpv:Document mpv:id="ID000001">
      <mpv:InstanceID>urn.osta-org.mpv.uuid.2234BDF9BBA934338DFBFFDE8342</mpv:InstanceID>
      <nmf:Metadata>
        <Properties xmlns="http://purl.org/dc/elements/1.1/"
          language="en-US"/>
        ...
      </nmf:Metadata>
    </mpv:Document>
  </mpv:AssetList>
  ...
</file:Manifest>
```
3.3 Example

This is an example of the MPV Document Profile-conformant parts of a well-formed MPV manifest.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<file:Manifest

   mpvd:writtenBy="http://www.mycompany.com/myapp/1.05/"
   mpvd:documentIDRef="ID000001"
 xmlns:file="http://ns.osta.org/manifest/1.0/"
 xmlns:mpv="http://ns.osta.org/mpv/1.0/"
 xmlns:mpvp="http://ns.osta.org/mpv/presentation/1.0/"
 xmlns:mpvm="http://ns.osta.org/mpv/music/1.0/"
 xmlns:mpvd="http://ns.osta.org/mpv/document/1.0/"
 xmlns:nmf=http://ns.osta.org/nmf/1.0/">

   <nmf:Metadata>

      <ManifestProperties xmlns="http://ns.osta.org/manifest/1.0/">

         <ProfileBag>

            <Profile>http://ns.osta.org/mpv/basic/1.0/</Profile>
            <Profile>http://ns.osta.org/mpv/presentation/1.0/</Profile>
            <Profile>http://ns.osta.org/mpv/music/1.0/</Profile>
            <Profile>http://ns.osta.org/mpv/document/1.0/</Profile>
            <Profile>http://ns.osta.org/mpv/playlists/1.0/</Profile>
         </ProfileBag>

      </ManifestProperties>

   </nmf:Metadata>

   <mpv:AssetList>

      <!-- This asset describes this very MPV Manifest -->

      <mpv:Document mpv:id="ID000001">

         <mpv:InstanceID>urn.osta-org.mpv.uuid.2234BDF9BBA934338DFBFFDE8342</mpv:InstanceID>

         <nmf:Metadata>

            <Properties xmlns="http://purl.org/dc/elements/1.1/"

               <creator>MyCompany MyApp 1.0</creator>
               <description>this is a description</description>
               <language>en-US</language>
               <title>some title</title>
            </Properties>

            <Properties xmlns="http://purl.org/dc/terms/1.0/"

               <createDate></createDate>
               <modifiedDate>asdf</modifiedDate>
            </Properties>

         </nmf:Metadata>

         <mpv:Related mpv:relationship="derivedFrom">

            <mpv:DocumentRef mpv:idRef="ID000002"/>

         </mpv:Related>

      </mpv:Document>

      <!-- This asset describes the MPV Manifest from which the current one was derived -->

      <mpv:Document mpv:id="ID000002">

         <mpv:InstanceID>urn.osta-org.mpv.uuid.4583BDF9BBA934338DFBFFDE8342</mpv:InstanceID>

         <mpv:LastURL mpv:filesystem="NTFS">album002.pvm</mpv:LastURL>

      </mpv:Document>

      ...

   </mpv:AssetList>

</file:Manifest>
```
4.1 Chaining to an Earlier MPV Manifest

4.1.1 Writer of the Manifest

The mpv:Document asset representing the manifest itself SHOULD have the dc:language element set to the default locale of the manifest’s content.

This practice conforms to [MPVDoc]. The MPV manifest is authored for a single “locale”, where a locale is a combination of language and territory, such as English-U.S. The locale of a manifest is recorded as a dc:language element of the manifest’s own mpv:Document asset. The default locale of all text in the manifest is identified by the dc:language element within the mpv:Document element representing the current manifest. A player MAY honor the use of dc:language for purposes of sorting, line wrapping, currency, and other values.
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http://www.i3a.org

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"Data elements and interchange formats - Information interchange - Representation of dates and times",

[ISO10646]
"Information Technology -- Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and
Basic Multilingual Plane", ISO/IEC 10646-1:1993. This reference refers to a set of codepoints that may evolve
as new characters are assigned to them. This reference therefore includes future amendments as long as they do
not change character assignments up to and including the first five amendments to ISO/IEC 10646-1:1993.
Also, this reference assumes that the character sets defined by ISO 10646 and Unicode remain character-by-
character equivalent. This reference also includes future publications of other parts of 10646 (i.e., other than
Part 1) that define characters in planes 1-16."

[JFIF]
Available at http://www.w3.org/Graphics/JPEG/jfif.txt
[MANIFEST]
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[MD5]
Available at http://www.ietf.org/rfc/rfc1321.txt. Further information and source code available at
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[RFC2119]
“Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, IETF, RFC 2119
http://www.ietf.org/rfc/rfc2119.txt

[URI]
Note that RFC 2396 updates [RFC1738] and [RFC1808].

[UCS-2]
16-bit encoding of ISO 10646, commonly known as the Unicode character set.

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