

MPV IS Validation & Development Tools

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MPV IS Validation Tool

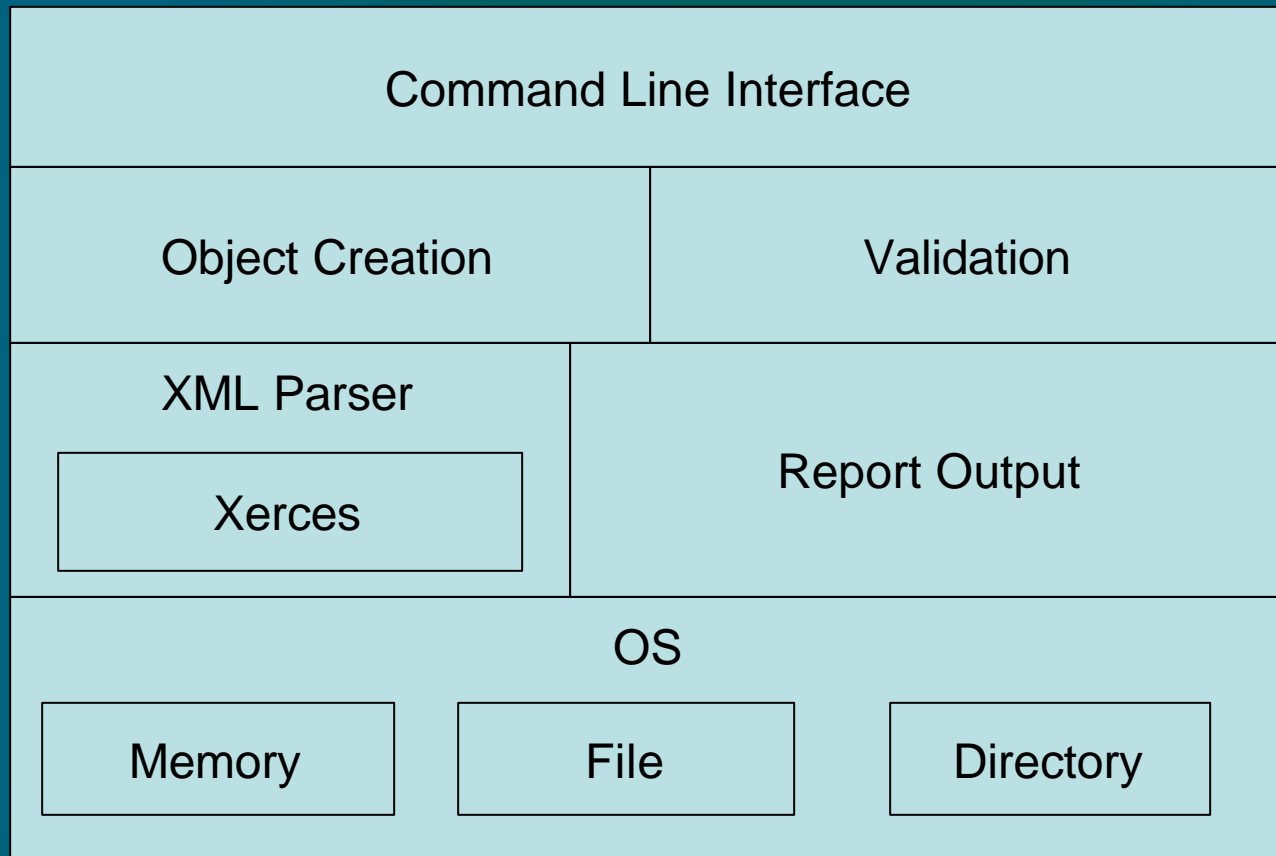
ValidateMPV!TM Validation Tool:

- **Fast & easy way to test for compliance**
- **Developed by SAI**
- **Authorized by OSTA**
- **Needed for self validation to license MPV logo**
- **Supports current version of the MPV Interoperability Specification**
- **Support for Windows 2000 Professional, Windows XP Professional and Windows 2003 Server**

ValidateMPV!TM Validation Tool

- **Written in C++**
- **Command line interface**
- **Uses 'lists of lists' structure**
- **Creates a model of the XML file in computer memory**
- **Reads XML play list file to be tested**
- **Creates software objects for each attribute**
- **Automatically calls each object's "Validate" method**
- **Automatically outputs a detailed report**
- **Refers to each MPV IS requirement**

Block Diagram of ValidateMPV!™



Using *ValidateMPV!*TM

- **User Types:** C:\> ValidateMPV -i E:\ **and hits enter**
- **Program Displays:**

Searching for file:

"/Projects/MPV Validators/MPV Samples/Sample1/album.pvm"

Found File:

"/Projects/MPV Validators/MPV Samples/Sample1/album.pvm"

Using *ValidateMPV!*TM

- **Program Displays:**

PLW100-4 (Section 3.1.4) Provide only one <mpv:AssetList>.

<mpv:AssetList> element found. Good.

<mpv:AssetList> element is unique. Good.

PLW100-5 (Section 3.1.5) Specify Correct Profile Elements.

<file:Profile> element(s) found. Good.

PLW100-15 (Section 3.1.15) <file2:WrittenBy> element.

Level 1: ERROR - <file2:WrittenBy> element not found.

MUST be fixed!

Using *ValidateMPV!*TM

- **Summary Output:**

Summary Report

Total Tests Performed: 339

Level 1 - Errors Found: 24

Level 2 - Severe Warnings Found: 144

Level 3 - Warnings Found: 45

Level 4 - Informational

- **For MPV IS compliance, Level 1 errors must be 0**

Using *Validate*MPV!TM

Benefits:

- Fast & easy testing of your products' MPV IS compatibility
- Validates compliance with OSTA spec
- Ensures a Positive Consumer Experience!

Availability of ValidateMPV!™

- Beta versions available now
- Final release target: December OSTA meeting
- For further information:

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MPV Developer Tools

Peter Rae

**Licensing & Business Development
Director for Asia**

Software Architects, Inc

Adding MPV Fast & Easy!

WriteMPV!™ Software Developer Toolkit:

- **MS Windows**
- **Mac OS X**
- **Linux**

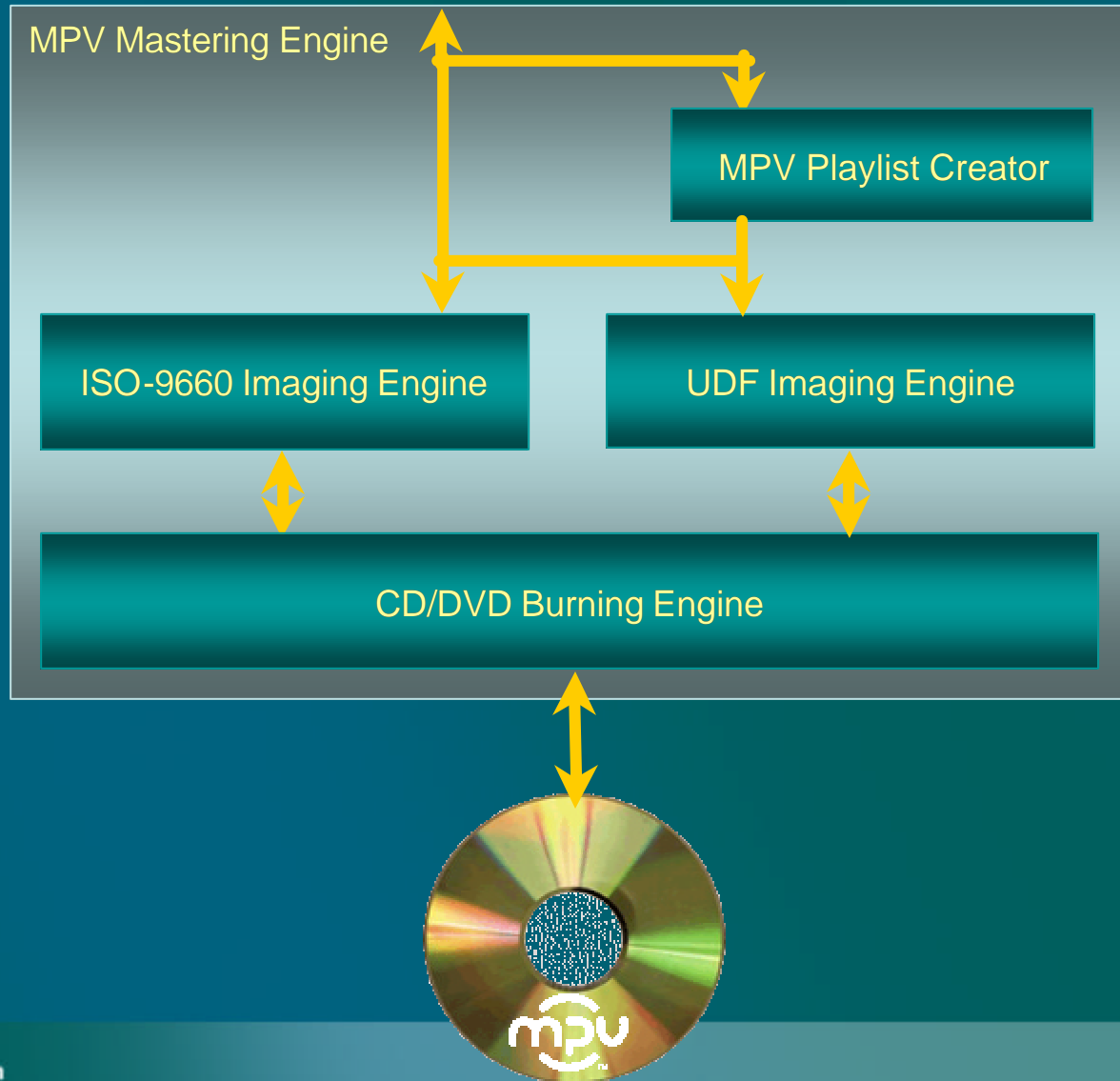
“Everything you need to implement OSTA compliant MPV play lists and master them to CD or DVD in your application!”

WriteMPV!™ is Proven MPV

WriteMPV!™ Software Developer Toolkit:

- **Used to develop Nikon Picture Project™ MPV functions**
- **Play compatible with Samsung DVD video players**
- **Used in developing un-announced future products for Windows & Mac**

WriteMPV!™ Mastering Toolkit



WriteMPV! Overview

- Available in a Windows compatible .dll file or C library
- API available as C header files
- Supports ISO 9660 & UDF mastering
- Supports Single & Multi-session
- Supports CD-R/W, DVD-R/W, DVD+R/W
- Available Q4 2005

Developing for MPV

Things to consider:

- **Select the right XML parser to meet your product requirements**
- **Consider support for multiple formats**
- **Consider use of MPV discs on both PC and CE devices**

For More Information

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MultiPhotoVideo (MPV™)



***MPV means a Superior
Consumer Experience
with Multi-media play
lists!***