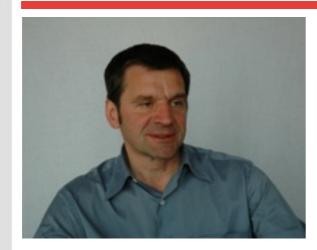


PDF/A Competence Center Webinars



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XMP Metadata in PDF/A: Requirements and benefits

</pdfaorg:Title>

<pd><pdfaorg:Presenter>

Dietrich von Seggern

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callas software GmbH

</pd></pdrawa>

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</pdfaorg:PresenterCompanyExtension>
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About callas software



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- Technology for PDF since 1997
- active contribution to ISO standardization of PDF since 1999
- Products
 - "Preflight" in Adobe Acrobat Professional
 - pdfaPilot
 - pdfToolbox 4
- Available as
 - Plug-In for Acrobat
 - Server
 - Command line module
 - Library (C/C++, .Net, Java)
 - on Windows, Linux, Sun, AIX, Mac OS X







etence Center Content



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- What is XMP Metadata?
- What are the requirments of PDF/A with respect to XMP Metadata?
- Demonstration
 - Analysis and validation of XMP Metadata
 - Creation and editing of XMP Extension Schemas







About Metadata



- "Information about data"
- Organizing metadata in document processing:
 - Where to place (inside or in an extra file)
 - Structure (Format)
 - Content
- Some Standards
 - Dublin Core (Office)
 - Title
 - Author
 - Keywods
 - Creation and modification date
 - IPTC for news
 - EXIF for images







XMP "Extensible Metadata Platform" by Adobe



- May be used in various file formats
 - TIFF, PostScript, JPEG, CreativeSuite etc.
 - Survives format conversions (most of the time)
- In a PDF it may be associated with the document but also with images, fonts, icc profiles, pages...
- Metadata properties are organized in schemas







XMP Schemas



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- A schema contains one or more properties
- Is identified by means of a namespace URI
 - E.g. http://pdfa.org/namespace/presentations/
- For every property
 - Name
 - Value type
 - String, Integer etc.
 - Also structured types or arrays
 - Description







Predefined XMP Schemas



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- General schemas that are defined in the XMP Specification
 - Dublin Core Schema
 - http://purl.org/dc/elements/1.1/
 - XMP Basic Schema
 - XMP Media Management Schema
 - EXIF Schema
 - » ...







Extending XMP



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- For Metadata that is not covered in predefined schemas
 - Metadata standards for industries or associations
 - Metadata structures from companies
- Recommendation: Do not invent XMP properties that are defined in the XMP specification (or anywhere else).







Requirements of the PDF/A Standard



- All XMP properties must be
 - either predefined in the relevant XMP Specification
 - defined in an embedded Extension Schema (name, value type, description ...)
- XMP Extension Schemas can be "translated" into XMP syntax for embedding
 - Description is always linked to the data
 - Forces complete and consistent definition







PDF/A Validation and Conversion



Validation

- Predefined properties against XMP specification
- All other properties against the definitions of the embedded Extension Schema

Conversion

- Not predefined XMP Metadata
 - either remove or
 - create and embedd XMP Extension Schema







Demonstration



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- Analysis and validation of XMP Metadata
 - Acrobat 9
 - Preflight
- Creation and editing of XMP Extension Schemas
 - Remove Metadata using callas pdfaPilot 2
 - Create a XMP Extension Schema and embedd it using pdfaPilot 2









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XMP Metadata is flexibel and resistant (format conversion).









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- XMP Metadata is flexibel and resistant (format conversion).
- XMP comes with a set of predefined schemas but may be extended.









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- XMP comes with a set of predefined schemas but may be extended.
- PDF/A requires that a XMP Extension Schema is embedded for all properties that are not predefined.









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- XMP comes with a set of predefined schemas but may be extended.
- PDF/A requires that a XMP Extension Schema is embedded for all properties that are not predefined.
- An XMP Extension Schema Editor manages XMP schemas, properties and types and allows you to embedd the schemas when converting to PDF/A.







Further information



www.pdfa.org

- TechNotes at pdfa.org
 - 0008 Predefined XMP Schemas
 - 0009 XMP Extension Schemas
- Proceedings summary from the3. International PDF/A Conference
 - E-mail to: <u>rainer.lemke@pdfa.org</u>
 - Non-Members: 129 EURO (+ VAT)
 - Members: 15 EURO (+ VAT)







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