

PDF/A-3: All change for document-based processes!

Welcome to our Webinar!

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Quick recap to start with: PDF/A

- ISO standard 19.005 today in three parts (PDF/A-1 to PDF/A-3)
- Static view for archival materials
 - Even in far future
 - Also using future, not predictable systems
- Therefore:
 - "Self containing" documents needed embedded all components
 - Reliable document no active or unsecure contents
- -> PDF/A is a compatible archival-container for many sources
- -> PDF/A is electronic paper



- PDF/A-1, since 11/2005, "electronic paper", based upon: PDF 1.4
 - Compliance Level a and b
- PDF/A-2, since 07/2011, "electronic paper", based upon: ISO 32.000
 - Compliance Level a, u and b (*)
- PDF/A-3, since 10/2012, same as PDF/A-2, plus "one more thing"
 - Attachments, file Embedding
 - In arbitrary formats

-> All three parts of the standard are published and ready to use!

(*) Webinars on PDF/A Basics and PDF/A special topics, see: www.youtube.com/luratech

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PDF/A-3: Archival Format or not?

- Looks like a contradiction on the first view:
 - Native formats should be converted to PDF/A
 - Now native formats are embedded in PDF/A-3?
- Key word here: archival part / non archival part
- Goals to embed files:
 - e.g.: Save archive ready rendition with source format
 - e.g.: Save archive ready rendition with machine readable data
 - e.g.: Save meta data inseparable from archival material

-> Risk/to be avoided: Archival material as attachment!



Attachments in PDF/A-3

- Embedded files have a relationship to PDF objects
 - Attachment is "Data", "Source", "Alternative",... to/of an object
 - ... btw, that is not yet part of PDF! (will be in ISO 32.000-2)
- Embedded files are called "Associated Files", associated to
 - A page, pages or the whole PDF/A document
 - A specific content, e.g. a diagram, a text paragraph, ...
- For example:

data.xls is "Data" for a specific diagram

metadata.csv is "Data" for a number of pages

text.doc is "Source" of the PDF/A-3 file

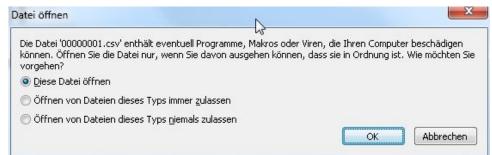
audio.m4a is "Alternative" for a text content

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- "ISO 19.005-3 allows for embedding of files of any type, ..."
- Practically there are "implementation details":
 - Adobe Reader prevents viewing/saving of embedded "dangerous files"
 - .exe, .bat, .cmd, but also.zip, .gz and .pst, .url, ...
 - Only "registry hack" can circumvent that, thus not a practical solution
 - User: black-/white listing
 - Additional formats to be configured by user
 - Acrobat only opens .pdf by default "without comment"

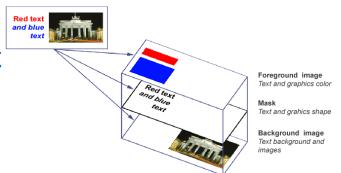




PDF Compressor: today all, plan: option, default: prevent black list



- Meta data often more important than artifact
 - Mata data usable without image
 - Image without meta data more often not



- PDF/A-3 is the complete format:
 - PDF/A in itself: keeps scanned documents readable long term
 - MRC,...: compresses to very small (color-) documents
 - OCR: makes scanned documents searchable
 - Attachments: put scanned documents in context (that's meta data)
- Always check and decide:
 - Use XMP, XMP Extension Schemas or native format for meta data?

- Hybrid Archiving:
 - Document in its life cycle, further versions might be created
 - When to create an archive ready rendition (aka PDF/A)?
- Using PDF/A-3:
 - Still open to change native format as attachment embedded into archive ready PDF/A "rendition"
- Scope of use (time):
 - PDF/A is a long term archival format
 - Requirements: works for many years, decades, ever = archiving
 - Attachments "as long as it works"
 - Requirements: maybe a couple of years = life cycle



■ PDF/A-3

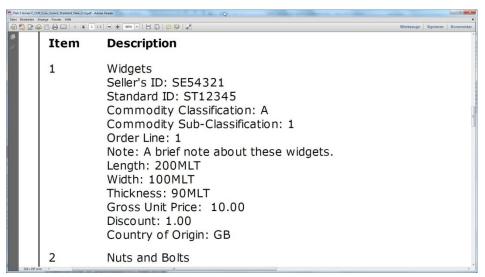
- Create with PDF Compressor and "look and feel"
 - Scanned Invoices with .csv-files, resulting from a capture process
 - Hybrid archiving

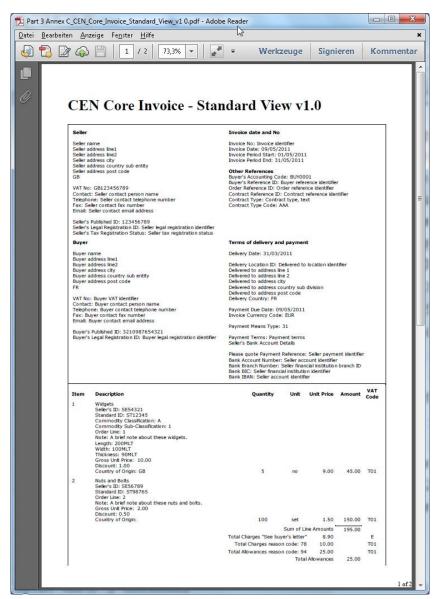
- Electronic invoice exchange format
 - Goal: no capture needed on receiving side
 - Also for users, without EDI systems
 - German initiative of Ministry of Economics, associations, stakeholders
 - German DIN standard under construction, there after:
 - PDF/A-3 is the electronic invoice, XML based invoice data embedded
 - XML: Core Invoice Data Model MUG (CEN EU specification)
 - Subset of UN/CEFACT Cross Industry Invoice (CII)
 - CWA 16356-1 to -3 describes the data model (very technical)
 - More: http://www.cen.eu/cen/sectors/sectors/ISSS/Activity/pages/mug.aspx
 - Tough schedule: results expected at next CeBIT show (March 2013)
 - Outlook: get it to the EU level and international standards



PDF/A-3 Use Cases (3): "document communication"

- PDF/A file is the invoice. XML data are embedded files with "Data" relationship
 - Invoice can be CI-invoice
 - Alternatively rendering XML using **CEN Core Invoice Standard View**





- Demonstration / have a look
 - XML not "nice to look at" for sure
 - Import/export is the game changer!

-> Politics, industry, ISVs, support it over here, could reach the tipping point!



- PDF/A-3: All change for document-based processes!
 - Invoice exchange format shows the potential of PDF/A-3!
 - Take a look at your own document based processes!
 - Look at cost savings and better services possible now!

- PDF/A-3 is released and useable!
- Acrobat Reader XI supports PDF/A-3.
- PDF Compressor supports PDF/A-3 creation!
 - Talk to us:
 - About your feature requirements, to support your PDF/A-3 processes!
 - About testing it get a free demo version of PDF Compressor Enterprise!



Thank you for your attention!

Questions of the audience?

Please be so kind to fill in our questionnaire!

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