

Webinar Series of the PDF/A Competence Center

www.pdfa.org

PDF/A in the Product Lifecycle

Requirements of the Engineering to PDF/A



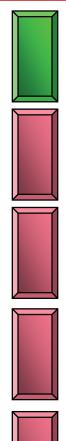
Johannes Hesel

Johannes Hesel, VP Business Development Torsten Pfeiffer, Sales Manager

SEAL Systems AG, Röttenbach

















ISO Standard PDF/A

- ISO 19005-1 (September 2005)
 - Based on PDF 1.4
 - Distributed by www.iso.org or www.aiim.org
- Level of the standard
 - PDF/A 1b: sufficient for secure reproduction
 - PDF/A 1a: full conformity additional methods for access to parts of the content e.g. text) and structural information for export, reuse, search und accessibility
- ISO 32000 (July 2008)
 - Based on PDF reference 1.7
- ISO 19005-2 (2010)
 - Will be based on ISO 32000

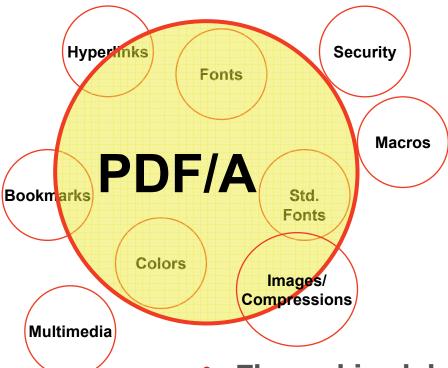






PDF/A Standard

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- The archived document shall
 - be device independend
 - include all necessary contents
 - describe itself
 - free to use







PDF/A – The most important Agreements and Restrictions

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- Limited to PDF-Version 1.4 (=Acrobat 1.5)
- Selected compression methods
- Font types, embedding, metrics
- Character coding, Unicode
- Reduced colour spaces







PDF/A Agreements and Restrictions

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- Transparencies are not allowed
- Limited hyperlinks and actions
- Embedded objects
- Metadata / XML usage mandatory
- Contents









What is PDF/A?



Motivation



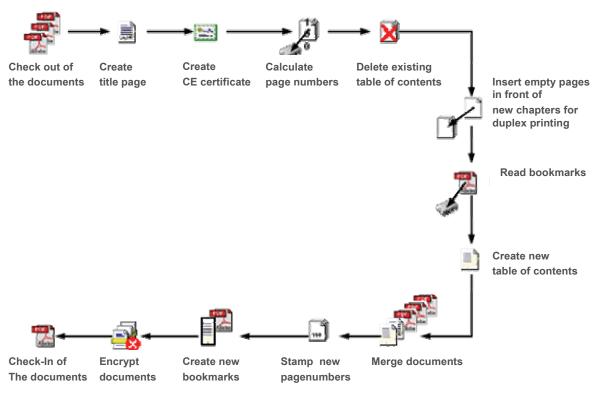






1st Customer Scenario

 Automatic creation of complex product documentations, based on existing PDF documents stored in the PDM/DMS system



 Runtime errors just in the publishing process are caused by some of the documents which are not convertable







2nd Customer Scenario

 Production shop papers are distributed by viewing and printing processes to the users



 Sporadically documents with errors are popping up. These documents can be quite old.







3rd Customer Scenario

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 Due to product lifecycles of up to 100 years in the aerospace industry, the document readability has to be guaranteed over the same period.

Recommendations on PDF for Long-Term Archiving Study for Airbus Deutschland GmbH





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 Processes and formats need to be identified for this requirement

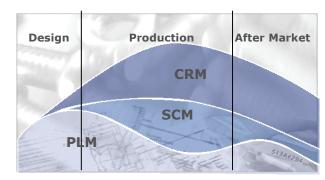




Why to use PDF/A in the engineering?

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- Compliancy
 - ISO, DIN
 - FDA
 - FAA
- Process security
 - Production
 - Maintenance
 - Purchasing



Start of Product definition

Start of production

End of production

End of product

- Document accessibility
 - Long term oriented
 - From every authorized person





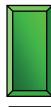




What is PDF/A?



Motivation



How do I get PDF/A?



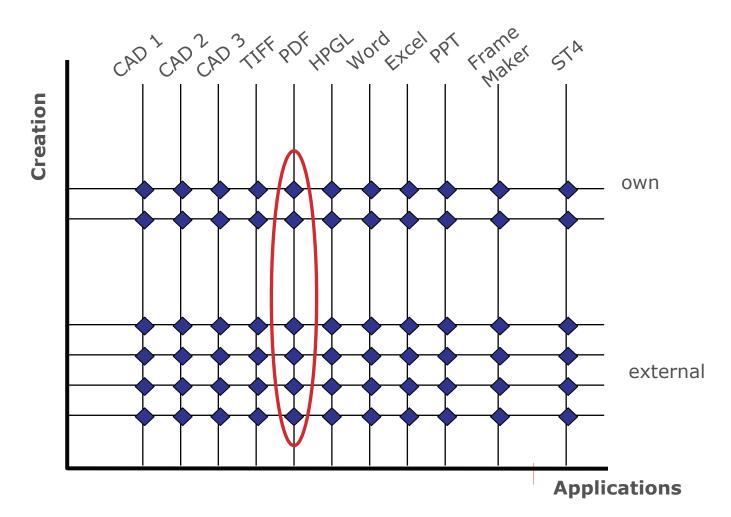






Document Classification

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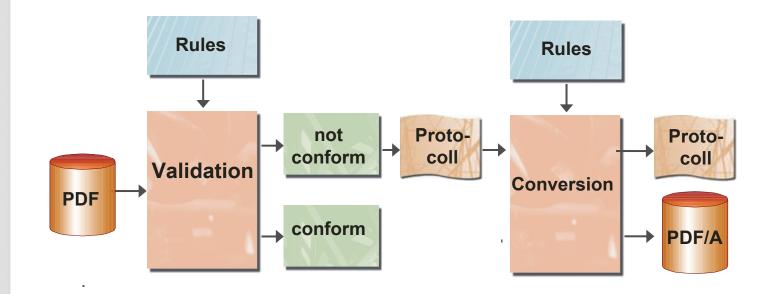






PDF/A Validation and Conversion Workflow

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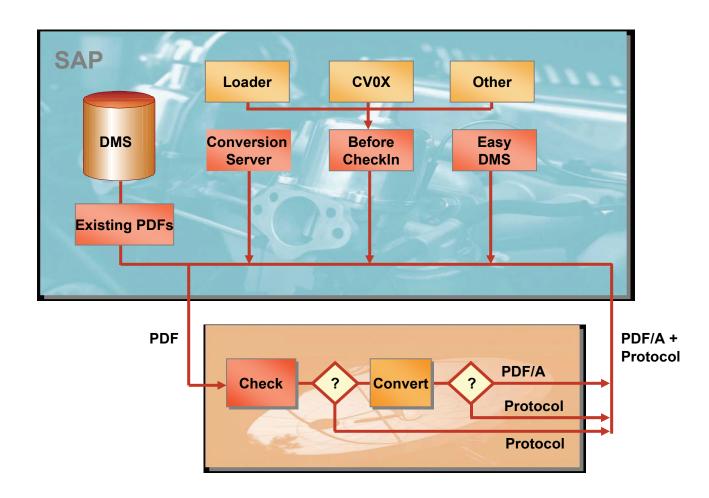






PDF/A Check- and Adjust Workflow for SAP DMS

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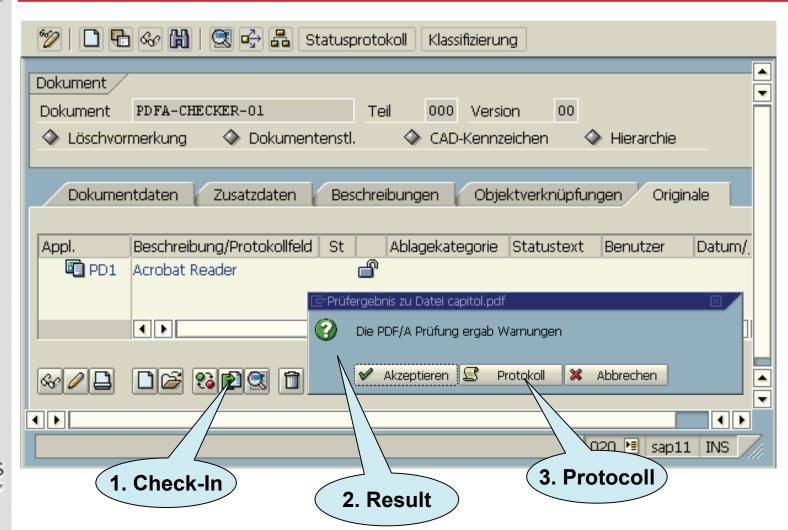






Interactive Check-In into SAP DMS

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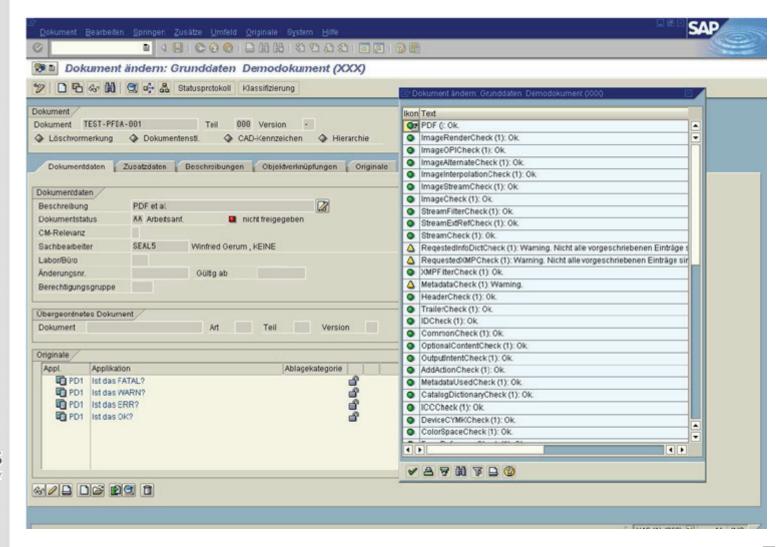




SEALSYSTEMS THE DIGITAL PAPER FACTORY

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Viewing of the check protocoll

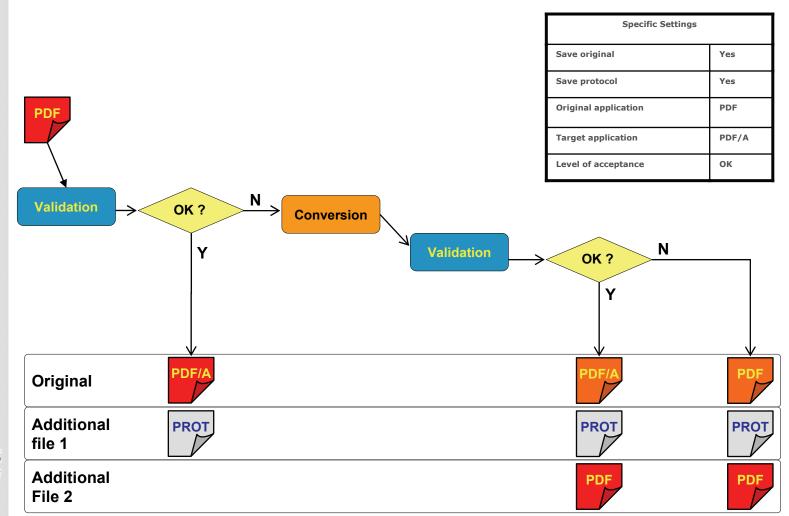






One input – two outputs

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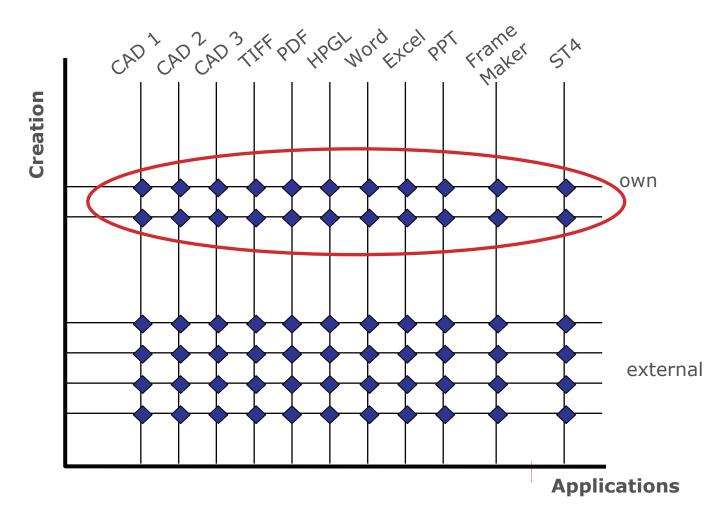






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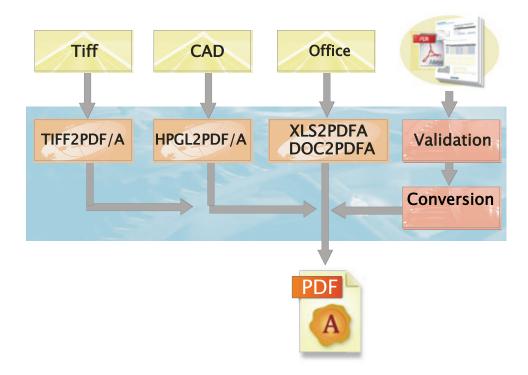






PDF creation out of the applications

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Automatic PDF/A Creation

- Interactive creation by the user with application drivers
 - Not secure
 - Requires high quality drivers for each application
- Process: Print Approval Scan
 - Time consuming
 - Expensive
 - Not secure
- Automatic creation with conversion servers and application converters, triggered by the DMS
 - Fast
 - Cheap











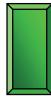
What is PDF/A?



Motivation



How do I get PDF/A?



Which problems can pop up?





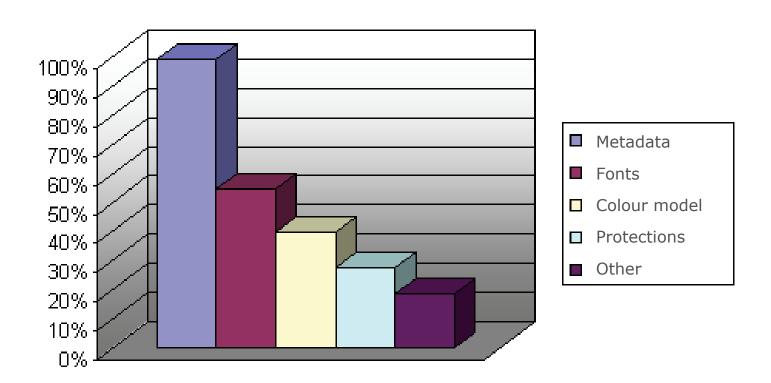




The most typical technical problems

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The most important discrepancies









The most typical legal problems

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- You do not have the copyright
- Non conform documents are already released
- Rejection of documents is not possible
- Personal Responsibilities and Authorisations are not clear









What is PDF/A?



Motivation



How do I get PDF/A?



Which problems can pop up?



How should I setup a PDF/A implementation project?



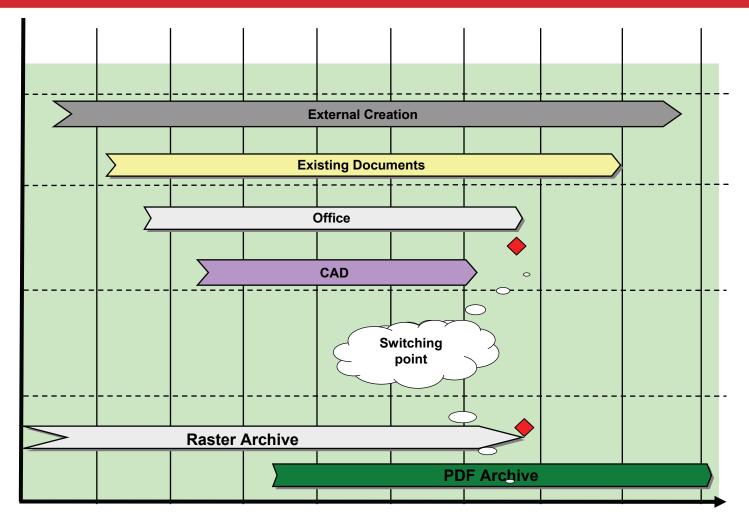






Project plan of a PDF/A migration

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No offline time for a migration!







What else should be thought about?

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- Plan multiple PDF qualities
- Store the original files



Train the users

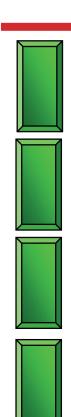












What is PDF/A?









How should I setup a PDF/A implementation project?

Summary







Summary

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- PDF/A is able to replace the well known TIFF format as long term archiving format
- It combines the advantages of PDF (full text retrival, colour, ...) and TIFF (reliable reproduction)
- Solutions for the direct creation of PDF/A from any application are available
- Solutions for the conversion of PDF documents to PDF/A are available
- Integrated and automatic processes increase the process security



Johannes Hesel

PDF/A is the answer for long term archiving in the product life cycle





Your Benefits!

www.pdfa.org

• Secure processes



Satisfied users



Satisfied customers





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Security for the worst case







Additional Information

- Flyers for relevant products
- Publications "PDF/A a norm for archiving,"

"PDF/A – Companies should now change the archiving strategy,"

- Publication "A statement for generations"
- Success Story "Giesecke & Devrient: "Securtiy and Progress –
 From TIFF/G4 to PDF/A"
- "Secure Documents"

and more information is available on our homepage at

www.pdfforever.com and at www.pdfa.org







Additional Information

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3rd International PDF/A Conference Berlin, June 17-19th, 2009

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Contact us for your questions!

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