

Welcome to our Webinar!

- Overview of the PDF/A ISO - Gary Hodkinson
- PDF/A in Healthcare - Dr. Bernd Wild



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**Gary Hodkinson, Chair UK Chapter,
PDF Association**



PDF/A Competence Center – PDF Association

- ❖ **Competence Center for the PDF/A Standard established 2006**
- ❖ **Currently approximately 125 members**
- ❖ **Healthcare Group with 7 members**
- ❖ **Technology related to PDF/A**
 - ❖ **Active participation in the ISO Standard Committee**
 - ❖ **Technical information on PDF/A and PDF Standards**
- ❖ **Events**
 - ❖ **Information Seminars**
 - ❖ **Exhibition booths**
- ❖ **The pdfa.org Website**
 - ❖ **Answers to technical questions**
 - ❖ **Technical articles, FAQs etc.**
 - ❖ **White Papers, e.g. PDF/A in Healthcare**



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PDF/A – The Need for a Standard - Goals

- ❖ **Long-term preservation – long, or “forever”**
- ❖ **PDF/A is:**
 - ❖ **Device/ Software/ Versions-independent:** the content is displayed consistently
 - ❖ **Self Contained:** A PDF/A-compatible file contains all the components needed to display it
 - ❖ **Self Documented:** PDF/A compliant files are self-descriptive
 - ❖ **Transparent:** PDF/A files can easily be analysed
 - ❖ **“Digital Paper:** a file format for safe reproduction of static documents
- ❖ **Digitised patient medical records typically will be stored for at least 30 years**
- ❖ **Pharmaceutical companies must store paper & digitised research data for many decades**



PDF/A – The Advantages

- ❖ **PDF/A can include OCR text, indexing, compression technology, metadata etc**
- ❖ **Unifies your archive format**
 - ❖ **Convert scanned Colour and Black & White (raster)**
 - ❖ **Convert digital documents (Vector)**
 - ❖ **Convert pure XML streams**
- ❖ **Only one file viewer required**
- ❖ **Migration tasks simplified**
- ❖ **Long-term readability guaranteed for the foreseeable future and beyond**



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PDF v PDF/A – Prohibited Content

Some examples:

- ❖ **Active/Variable content (e.g. JavaScript)**
- ❖ **External content and embedded files**
- ❖ **Encryption**

In Summary:

- ❖ **No component of a PDF/A file may jeopardise the consistent format of the document**
- ❖ **The presentation of the document must not rely on external dependencies**



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PDF v PDF/A – Additional Specifications

- ❖ **Fonts must be embedded**
- ❖ **XMP metadata must be consistent**

In Summary:

- ❖ **All necessary information, resources and components must be contained in the document or embedded.**



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PDF/A – Definitions

Document Management – Electronic document file format for long term preservation –

Part 1: Use of PDF 1.4 (PDF/A-1)

Part 2: Use of PDF 1.7 (PDF/A-2) ISO 32000-1

- “PDF/A”** – The ISO 19005 Standard family
- “PDF/A-1”** – ISO 19005-1, Part1, released 10/2005
- “PDF/A-1a”** – Level A conformance of Part1
 Accessibility: tagged, 508 compliance
- “PDF/A-1b”** – Level B conformance of Part1
 Reproducibility and content (metadata)
- “PDF/A-2”** – New part, introduced summer 2011
- “PDF/A-3”** – in progress, Embedded Files



PDF/A Conversion Overview

