Portable Document Format (PDF), standardized as ISO 32000, is a file format developed by Adobe in 1992 to present documents, including text formatting and images, in a attachments, and metadata to manner independent of application software, hardware, and operating systems. Based on the PostScript language, each PDF file encapsulates a complete description of a fixedlayout flat document, including the text, fonts, vector graphics, raster images and other information needed to display it. variety of formats such as DjVu, implementation of the ISO PDF has its roots in "The Camelot Project" initiated by Adobe co-founder John Warnock in 1991. PDF was standardized as ISO 32000 in 2008. The last edition as ISO 32000-2:2020 was published in December 2020. PDF files may published by the International contain a variety of content besides flat text and graphics including logical structuring elements, interactive elements such as annotations and formfields, layers, rich media (including video content), three- Adobe published a Public

dimensional objects using U3D granting royalty-free rights for formats. The PDF specification are necessary to make, use, also provides for encryption and sell, and distribute PDF-

digital signatures, file enable workflows requiring these features. History Main article: History of PDF Adobe Systems made the PDF specification available free of charge in 1993. In the early in desktop publishing workflows, and competed with a and indispensable for the full

Paper, Farallon Replica and even Adobe's own PostScript format. PDF was a proprietary format controlled by Adobe until on Adobe's website. Many of it was released as an open

standard on July 1, 2008, and Organization for

1:2008, at which time control of 2:2020, was published,

the specification passed to an ISO Committee of volunteer industry experts. In 2008,

Patent License to ISO 32000-1

or PRC, and various other data all patents owned by Adobe that

compliant implementations. PDF 1.7, the sixth edition of the

PDF specification that became ISO 32000-1, includes some proprietary technologies defined only by Adobe, such as Adobe XML Forms Architecture (XFA) and JavaScript extension for years PDF was popular mainly Acrobat, which are referenced by ISO 32000-1 as normative

Envoy, Common Ground Digital 32000-1 specification. These proprietary technologies are not standardized and their specification is published only

> them are also not supported by popular third-party implementations of PDF. In

December 2020, the second Standardization as ISO 32000- edition of PDF 2.0, ISO 32000-

> including clarifications, corrections, and critical updates to normative references. ISO

32000-2 does

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