

Digital Signature and Long-term Archiving in Adobe PDF



The global standard for trusted electronic documents and forms

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Adobe Standards

Adobe Standards Participation

- <http://www.adobe.com/enterprise/standards/organizations.html>

Adobe PDF use in analytical information storage and archiving

- http://www.spectroscopyeurope.com/TD_19_5.pdf

PDF for Documents, XML, and Rich Content

- http://www.cendi.gov/presentations/CENDI_2006_PDF_workshop_Chase.pdf

PDF as the standard

- MISMO, PISCES, PRIA,
- ACORD, ORIGO -Insurance standards
- XBRL -Financial reporting
- Government –US Courts, NARA, FDA, US Customs, UN/CEFACT
- UBL, OAGIS, UN eDocs-ebXMLCCTS-based b2b standards
- RosettaNet-Manufacturing
- PDF/A: ISO 19005-1:2005 for Document management -- Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)
- PDF/X: ISO 15930-1:2001 for Graphic technology -- Prepress digital data exchange
- PDF 1.7: ISO 32000 for Document management -- Portable document format -- PDF 1.7

The image displays four screenshots of the ISO website's product pages. Each screenshot shows the ISO logo and the text 'International Organization for Standardization' and 'International Standards for Business, Government and Society'. The navigation menu includes 'Home', 'Products', 'Standards development', 'News and media', and 'About ISO'. The product pages are:

- ISO 19005-1:2005**: Document management -- Electronic document file format for long-term preservation -- Part 1: Use of Pdf 1.4 (PDF/A-1). The breadcrumb trail is 'Products > ISO Standards > By TC > TC 171 Document management applications > SC 2'. It is available 'By ICS' and 'By TC'.
- ISO 15930-1:2001**: Graphic technology -- Prepress digital data exchange -- Use of PDF -- Part 1: Complete exchange using CMYK data (PDF/X-1 and PDF/X-1a). The breadcrumb trail is 'Products > ISO Standards > By TC > TC 130 Graphic technology'. It is available 'By ICS' and 'By TC'.
- ISO 15930-3:2002**: Graphic technology -- Prepress digital data exchange -- Use of PDF -- Part 3: Complete exchange suitable for colour-managed workflows (PDF/X-3). The breadcrumb trail is 'Products > ISO Standards > By TC > TC 130 Graphic technology'. It is available 'By ICS' and 'By TC'.
- ISO 15930-4:2003**: Graphic technology -- Prepress digital data exchange using PDF -- Part 4: Complete exchange of CMYK and spot colour printing data using PDF 1.4 (PDF/X-1a). The breadcrumb trail is 'Products > ISO Standards > By TC > TC 130 Graphic technology'. It is available 'By ICS' and 'By TC'.

Digital Signature and Long-term Archiving in Adobe PDF



International Organization for Standardization
International Standards for Business, Government and Society

Home Products Standards development News and media About ISO For ISO

Products > ISO Standards > By TC > TC 130 Graphic technology

ISO Store
ISO Standards
By ICS
»By TC

ISO 15930-5:2003

Graphic technology -- Prepress digital data exchange using PDF -- Part 5: Partial exchange of printing data using PDF 1.4 (PDF/X-2)



International Organization for Standardization
International Standards for Business, Government and Society

Home Products Standards development News and media About ISO For ISO

Products > ISO Standards > By TC > TC 130 Graphic technology

ISO Store
ISO Standards
By ICS
»By TC
How to use the ISO

ISO 15930-6:2003

Graphic technology -- Prepress digital data exchange using PDF -- Part 6: Complete exchange of printing data suitable for colour-managed workflows using PDF 1.4 (PDF/X-3)



International Organization for Standardization
International Standards for Business, Government and Society

Home Products Standards development News and media About ISO For ISO

Products > ISO Standards > By TC > TC 130 Graphic technology

ISO Store
ISO Standards
By ICS
»By TC
How to use the ISO

ISO 15930-7:2008

Graphic technology -- Prepress digital data exchange using PDF -- Part 7: Complete exchange of printing data (PDF/X-4) and partial exchange of printing data with external profile reference (PDF/X-4p) using PDF 1.6



International Organization for Standardization
International Standards for Business, Government and Society

Home Products Standards development News and media About ISO For ISO

Products > ISO Standards > By TC > TC 130 Graphic technology

ISO Store
ISO Standards
By ICS
»By TC

ISO 15930-8:2008

Graphic technology -- Prepress digital data exchange using PDF -- Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X-5)



International Organization for Standardization
International Standards for Business, Government and Society

Home Products Standards development News and media About ISO

Products > ISO Standards > By TC > TC 171 Document management applications > SC 2

ISO Store
ISO Standards
By ICS

ISO/DIS 32000

Document management -- Portable document format -- PDF 1.7

Adobe PDF in Security

Adobe PDF Security

- Understanding and Using Security Features with Adobe Reader and Adobe Acrobat
<http://www.adobe.com/products/pdfs/AdobePDFSecurityGuide-c.pdf>

Adobe® PDF for electronic records

- Digital signatures and PDF combine for definitive electronic records and transactions
http://www.adobe.com/government/pdfs/pdf_electronic_records_wp.pdf

Secure Electronic Documents Drive Efficient Online Business Processes

- Adobe document security and control services help organizations protect mission-critical information
http://www.adobe.com/products/server/pdfs/95003796_security_solbr_ue2.pdf

Digital signatures -- Improve document authenticity and integrity

- With powerful encryption technology and public key infrastructure (PKI) support, Adobe digital signature solutions enable enterprises to exchange documents electronically with:
 - Assurance that the information has not been altered since it was sent
 - Verification of the signer's digital identity
- <http://www.adobe.com/security/digsig.html>



Adobe PDF has been approved by the US Department of Defense

- The United States Department of Defense -- Joint Interoperability Test Command (JITC)
<http://jitc.fhu.disa.mil/index.html>
- Adobe Acrobat 8.0 is CERTIFIED for Document Signing & Encrypting

http://jitc.fhu.disa.mil/pki/vendor/adobe_acrobat_8_0_pro.html

- Adobe Reader 8.0 is CERTIFIED for Document Signing & Encrypting
http://jitc.fhu.disa.mil/pki/vendor/adobe_reader_8.html
- Adobe Acrobat 7.0 is CERTIFIED for Document Signing & Encrypting
http://jitc.fhu.disa.mil/pki/vendor/adobe_acrobat_7_0_pro.html
- Adobe Reader 7.0 is CERTIFIED for Document Signing & Encrypting
http://jitc.fhu.disa.mil/pki/vendor/adobe_reader_7.html



Adobe Digital Signature Solutions Certified by SAFE-BioPharma Association

- Signatures and Authentication for Everyone (SAFE)
- <http://www.adobe.com/aboutadobe/pressroom/pressreleases/200702/020607SAFE.html>
- <http://www.adobe.com/lifesciences/safe.html>

eID cards: Improving trust and reducing the cost of e-government transactions

- http://www.adobe.com/government/pdfs/eid_cards_wp.pdf

FIPS 140 Validation Certificates for Acrobat, Reader, and LiveCycle

- Version 8.1 of Adobe Acrobat and Adobe Reader include the RSA BSAFE Crypto-C ME 2.1 encryption module with FIPS 140-2 validation certificate #828.
<http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/140val-all.htm>

Certified Document to prevent phishing and document forgery

- http://www.adobe.com/security/partners_cds.html

Sample Signatures File

- <http://www.adobe.com/security/pdfs/samplesignatures.pdf>

Adobe PDF in Finance

G.N. 1265

Commerce and Economic Development Bureau

ELECTRONIC TRANSACTIONS ORDINANCE (Chapter 553)

Pursuant to section 11(2) of the Electronic Transactions Ordinance, NOTICE is hereby given that the following requirements shall apply with effect from 1 March 2008 ('Effective Date'):-

(I) The information given or presented, document served or the signature made in the form of an electronic record, as the case may be, for the purposes of an ordinance (including any subsidiary legislation made thereunder) (the Ordinance) to which the Electronic Transactions Ordinance applies will not satisfy the Ordinance unless it complies with all the requirements herein specified, subject to any respective requirement or relaxation stipulated in (II) below.

5. An electronic record and all electronic records contained in it shall be given, served and presented in the following file format standards:-

(d) Adobe Portable Document Format (PDF) v1.2, 1.3, 1.4, 1.5, 1.6 or 1.7 (compatible to Acrobat version 3, 4, 5, 6, 7 or 8);

In Hong Kong, Adobe PDF format v1.7 newly added in Electronic Transactions Ordinance updated on 1 March, 2008 (See Paragraph 5 and 7)

- To provide a clear legal framework for the conduct of e-business in the Hong Kong Special Administrative Region, the Electronic Transactions Ordinance (Cap.553) (the Ordinance) was enacted on 5 January 2000. The Electronic Transactions (Amendment) Ordinance 2004 (the Amendment Ordinance) was also enacted and came into operation on 30 June 2004 to update and improve the Ordinance. In general, the Ordinance, as amended by the Amendment Ordinance, seeks to –
- 1) accord electronic record and electronic signature (please see the note below) the same legal status as that of their paper-based counterparts; and
- 2) establish a voluntary recognition scheme for certification authorities to enhance public confidence in electronic transactions.
- (Note : For transactions not involving Government entities, a signature requirement under the law can be met by any form of electronic signature so long as it is reliable, appropriate and agreed by the recipient of the signature. For transactions involving Government entities, a signature requirement under the

law can be satisfied by digital signature.)

- English: Electronic Transactions Ordinance (Chapter 553)
<http://www.ogcio.gov.hk/textonly/eng/eto/eeto.htm>
- English: Gazette Notice published on 29 February 2008
<http://www.ogcio.gov.hk/eng/eto/download/egn200812091265.pdf>
- Chinese: Electronic Transactions Ordinance (Chapter 553)
<http://www.ogcio.gov.hk/textonly/chi/eto/ceto.htm>
- Chinese: Gazette Notice published on 29 February 2008
<http://www.ogcio.gov.hk/chi/eto/download/cgn200812091265.pdf>

Adobe committed to financial services standards

<http://www.adobe.com/financial/standards.html>

- [MISMO and PRIA](#): Adobe supports MISMO and PRIA data standards for emortgage processing and for esigning.
- [PISCES \(mortgage - UK\)](#): PISCES is charged with developing standards for the real estate industry in the UK, and Adobe has helped develop a proof of concept demonstrating PDF-based support of PISCES commercial lending standards.
- [ACORD \(insurance\)](#): Find out how Adobe solutions support ACORD forms for paperless processing.
- [XBRL \(financial reporting\)](#): Adobe and CoreFiling are making it easier to file using XBRL, as this white paper illustrates.
- [MiFID \(EU trade of equities and derivatives\)](#): The new EU Directive MiFID (Markets in Financial Instruments Directive) will drive the trade of equities and derivatives. Electronic documentation is key to comply with this new regulation. This white paper and the MiFID solutions brief illustrate how PDF can provide support to investment banks and trade firms who need to comply with this directive.
- [Electronic signatures and PDF](#): Learn how eSigned PDFs can help support secure and authenticated digital transactions.
- [Archiving - PDF/A](#): An ISO standard for electronic document archiving, PDF/A was developed by a working group that included Adobe and numerous other participants in government and industry. It is a key component in ensuring document retention compliance. [Learn more](#) about how Adobe is participating in the development of archiving standards and read the [PDF/A white paper](#).



New PDF eSignature Guidelines for Mortgages

- "PDF is already widely used in the mortgage industry," said Gabe Minton, executive vice president of MISMO. "These guidelines provide a standardized approach which will help make e-signed PDF documents consistent and interoperable, as well as reproducible over the many years that mortgage documents must exist."
- MISMO, a not-for-profit subsidiary of the Mortgage Bankers Association (MBA), develops data transfer protocols that span the \$12 trillion residential and commercial real estate finance industry.
- <http://www.adobe.com/aboutadobe/pressroom/pressreleases/200703/032607MISMO.html>



Adobe and Wolters Kluwer Financial Services Team to Deliver Mortgages Electronically

- "Partnering with Adobe enables us to give lenders access to trusted compliance content, based on legislative and regulatory requirements from all 51 U.S. jurisdictions, in PDF," said John Bryant, executive vice president of Banking and Mortgage for Wolters Kluwer Financial Services. "Lenders now have even more flexibility in selecting the tools that work best for their businesses."
- Wolters Kluwer Financial Services help financial organizations manage risk and improve efficiency and effectiveness across their enterprise. The organization's prominent brands include Bankers Systems, VMP® Mortgage Solutions, PCi, GainsKeeper®, CCH® Capital Changes, NILS INSource®, AuthenticWeb™, CCH Wall Street and GulfPak. Wolters Kluwer Financial Services' solutions
- <http://www.adobe.com/aboutadobe/pressroom/pressreleases/200703/032607WoltersKluwer.html>

InfoCamere

- Adobe® Intelligent Document Platform transforms Italian businesses' financial statements into intelligent, electronic documents
<http://www.adobe.com/enterprise/pdfs/infocamere.pdf>

Enabling the Paperless Bank

- One of the Nation's Top 5 Banks utilizes CIC's eSignature Software and Adobe® LiveCycle® Technology to save millions of dollars and sell more products
http://cic.com/customers/success/pdf/CIC_BankCaseStudy0307TSFinal.pdf

PDF and XBRL: Case Studies in Intelligent Financial Reporting

- <http://www.xbrl.org/us/us/SanJose200601/Chase.pdf>

Adobe PDF in Government

In Hong Kong, Adobe PDF format v1.7 newly added in Electronic Transactions Ordinance updated on 1 March, 2008 (Refer to 'Adobe PDF in Finance')

- English: Electronic Transactions Ordinance (Chapter 553)
<http://www.ogcio.gov.hk/textonly/eng/eto/eeto.htm>
- English: Gazette Notice published on 29 February 2008
<http://www.ogcio.gov.hk/eng/eto/download/egn200812091265.pdf>
- Chinese: Electronic Transactions Ordinance (Chapter 553)
<http://www.ogcio.gov.hk/textonly/chi/eto/ceto.htm>
- Chinese: Gazette Notice published on 29 February 2008
<http://www.ogcio.gov.hk/chi/eto/download/cgn200812091265.pdf>



US Government Printing Office Deploys Digital Signatures for FY2009 Budget

- Washington, DC — In an effort to save taxpayer dollars and reduce unnecessary paper copies, I am pleased to announce the White House will release an E-Budget on Monday, February 4, 2008.
- The visible digital signatures on online PDF documents serve the same purpose as handwritten signatures or traditional wax seals on printed documents. A digital signature, viewed through the GPO Seal of Authenticity, verifies document integrity and authenticity on GPO online Federal documents, at no cost to the customer.
- See the signed PDF:
<http://www.gpoaccess.gov/usbudget/fy09/pdf/budget/outlook.pdf>
<http://www.gpoaccess.gov/usbudget/fy09/browse.html>
- Reference:
http://www.whitehouse.gov/omb/pubpress/2008/010908_budget.html
<http://www.gpoaccess.gov/usbudget/index.html>



Adobe® solutions for tax and revenue authorities

- Over 1.5 billion PDF files have been downloaded from the United States Internal Revenue Service (IRS) website (www.irs.gov) since the IRS began posting them in 1998.
- Reference:
http://www.adobe.com/government/pdfs/95009255_taxrevenue_sb_UE.pdf

Government use of PDF

- <http://www.egovonline.net/egovindia/egov%20India%202006%20presentations%5Cegov%20India%2024th%20August%5CCentral%20Mission%20Mode%20Projects%5CAngiah.pdf>

Government Use of PDF		
Mandated	DeFacto	Accepted
Victoria Archives—Australia	Labor Court, National Press, Education Ministry —Brazil	BfARM (Drug)—Germany
Natl Telecom—Brazil	Labor Dept—Hong Kong	Govt Archiving—Italy
Ministry of Finance, Elec Committee, Ministry of Justice, Italian Bank Association—Italy	National Central Library—Taiwan	Internal Comm—European Union
National Archives—Netherlands	Postal Service—Italy	HMRC, Inland Revenue—UK
Prime Minister/Direction des Journaux Officiels, Ministry of Defence/DGA/ International Affaires—France	Ministry of Finance/ Insee, TracFin, Nuclear Industry (CEA)—France	Ministry of Defence, MoEquipement/ DAEI, DGUHC, Ministry of Foreign Affairs/ AEFÉ, La Poste, RATP, SNCF, Social Sector—France
Federal Ministry of Interior, Federal Ministry Bundessortenamt (Consumer Protection, Food & Agriculture), Federal Police (BKA) - Germany	Ministry of Equipement/ Sonactra, Ministry of Finance/ ADAE, Ministry of Health, AFNOR - France	Ministry of Finance/DGI, EDG GDF/GDMI (nuclear sites) - France
RDEC, Executive Yuan - Taiwan	Federal Strategy unit for IT - Switzerland	Belastingdienst - Netherlands
CPA, Executive Yuan - Taiwan	National Archives - Norway	Drug Submissions—ICH (WW)
Ministry of Justice, Ministry of Finance, Japan Standards Assn—Japan		National Archives - Sweden
Govt Information Dissemination-UK		Electronic Documents Initiative (eDay) - Denmark
Admin of US Courts, FDA, Library of Congress, Dept of Commerce, State of Florida Archives, Army Corps of Engineers—USA		OGCIO, Customs and Excise, Buildings Department, Census & Statistics Department, Hong Kong Judiciary—Hong Kong
		Ministries of Health, Labor, Education, Land—Japan
		Research and Development Office—Taiwan
		National Archives & Records Administration (NARA), PTO, IRS, NSF, Office of Govt Ethics—USA

 PDF
  PDF/A



eSignature for eGovernment

<http://ec.europa.eu/idabc/en/chapter/6000>

Austria

- The eTendering pilot 2004 tested two formats to create qualified signatures: Signed PDF using a plug-in to Acrobat and XML forms using a Web-interface.
- The Austrian Federal Railway (ÖBB) uses signed PDF with a plugin to Acrobat for signed submissions of offers.

Belgium

- Upon obtaining his smart card, the notary can electronically sign PDF documents in the client software application (dubbed 'Digidoc') with his private key. Qualified certificates are provided by the Dutch CA Getronics PinkRocade. After clicking the "Sign" button, the software will sign the PDF-file using the smart card and qualified certificate. This signature is then formatted in a Digidoc container (XaDeS), which also contains the PDF file itself and a signed reply from an OCSP server confirming the validity of the signature at the time of signing.
- Following this procedure, the requester party fills out the necessary administrative information (in the case of a birth certificate: whose certificate is he requesting, and for what purpose), and specifies if he would like to receive a paper certificate, or a .pdf-document that was electronically signed by the issuing public official.
- Generic Adobe PDF Writer, which includes functionality for the Belgian e-ID card's signing features.

Bulgaria

- The system automatically calculates tax bases from different recourses and enables the user to download the declaration before its submission in PDF format. The declaration has to be signed before its submission.
- The application processes text data encapsuled in PDF format. The files attached should be in P7S format.

Czech Republic

- It is possible to use signed XML forms or signed PDF and then to send it to Companies Register. Forms are published on web site of Ministry of Justice.
- Adobe Reader and electronic sending with advanced eSignature based on qualified certificate.

Denmark

- When a user signs the data supplied to an e-form, the signed data is submitted together with an XML instance and a PDF version of the form. Authorities can now retrieve this data on Virk.dk using a common web service.
- The software requirements on the client side for the use of eSignature:
Any browser and currently Adobe Acrobat.
- The signature/certificate presented to the application:
Adobe Acrobat

Germany

- Data structures employed are PDF (for award forms), GAEB, proprietary XML structures as well as the so-called e-sender module.
- In addition to a standard PC there is an additional requirement for Adobe Acrobat Reader 7 as well as an eVergabe-specific signature application plug-in for the reader (JSign).

Ireland

- The software requirements on the client side for the use of eSignature:
MS Windows 98/NT/2000/XP or Mac OS 9 or OS X. Standards compliant internet browser. Java virtual machine for handling digital certificates. Adobe Acrobat and functioning email account.

Italy

- A PDF digitally signed file created at the end of the data entry is downloadable by users. They can upload the same PDF file containing the information previously submitted through online web forms after having it digitally signed either by the data controller's legal representative or by an intermediary.
- The data formats used for documents are basically pdf. For exchanging information in A2A applications XML SOAP format is used.
- Procedural Details:
Online submission of information regarding the data processing. Creation of PDF digitally marked with a hash function. Download of the PDF document. Digital signature applied to the PDF document. Upload of the signed document to the

web application. No authentication during the procedure except for resuming an interrupted session. Authentication with unique identifier and password.

- The application receives, by upload, a digitally signed PDF file. Then it verifies the digital signature against the content of the PDF file. If verified, and if the certificate is not included in the revocation list, the document is accepted, and a PDF receipt is made available to the online user for download.
- “I think that digital signatures are used in an affordable manner in our online procedure, taking into account the users’ perspective and their ability to easily obtain a copy in PDF format of their unsigned notification form as well as a PDF receipt after having successfully uploaded the same document with digital signature.”

Luxembourg

- Transmission in the form of PDF file. This manner of proceeding makes it possible to the informant to download the formula of declaration on the screen, to fill the formula, to modify it, save it on computer and to deposit it with the help of the system eTVA.
- Transmission in the form of XML file.
Adobe XDP (XML Data Package): XML-based architecture for creating intelligent electronic documents that leverages the power of PDF for presenting information and XML for processing data.

Portugal

- To date, this group has recommended as follows:
 - digitally signed PDF e-invoice should be sent primarily to end-users, using e-mail
 - UBL mapping (digitally signed according to W3C XMLDigSig) e-invoice should be sent primarily to business customers, using e-mail, ftp(s) or http(s).
- In the private side, Portugal Telecom Group has, by far, the largest e-invoice platform (developed by Multicert). They started using it early in 2005 to send digitally signed e-invoices (in PDF format) by e-mail, in accordance with Decree-Law no. 256/2003. By October 2006, the Portugal Telecom Group had sent over one million e-invoices/month to their end-user customers, greatly reducing costs and reducing the effects on the environment.

Slovakia

- Adobe Acrobat 6.x Standard and higher versions for the filling out and signing of forms and proposals.
- The signature is verified manually with the assistance of electronic signature verification function in Adobe Acrobat.
- Datas are sent to the portal as signed XML documents, subsequently after verification extracted into the XML form, that are automatically processed by application and stored in databank of tax information system. For the forms printing are used PDF documents generated from FDF (form data format).
- The communication between system's server and the users is through the Internet by HTTPS. For the data interaction are beside the HTML pages used also the PDF forms.
- Datas are structured by XML. For data collection purposes and for user's interface creation are the structures converted into the HTML or PDF. The leading formats for the datas collection (proposal's collection) are the forms in PDF format.

Slovenia

- The user signs the data in pdf format, the signed data depend on the form /life event. An Electronic signature proves the identity of the user and assures integrity of filed data.
- All the data are stored in PDF documents and XML forms that are kept in a relational database.
- The entire document in XML format together with its presentation data in PDF format is signed by the user.

Spain

- AEAT develops a program that runs on a local computer of the taxpayer and helps to calculate the data. More than 98% of the taxpayers use it. It delivers a file that can be sent via Internet to the server of the AEAT after eSigning (it is also possible to print it with a PDF-417 code that includes the same file with all the data of the form)
- Data structures processed by the application
 - The data for the declaration arrives as a text data with information in fixed positions. The signature is an PKCS#7. The origin of the sign goes as Base-64. The declaration can be viewed as PDF or HTML by the taxpayer.
 - Data are entered into web forms, extracted and further processed in the application based in Oracle forms. The application involves all the phases included in the process the aid is conceded (admission, evaluation,

concession and justification of the aid). The expedients can be print and can be exported in PDF format.

United Kingdom

- The software requirements on the client side for the use of eSignature: Either an appropriate version of Adobe Acrobat that supports digital signing or use of signing utility provided by DTI to members of the scheme
- The use of eSignature have been implemented using standard document signing capabilities (e.g. Adobe Acrobat) and as a result have produced the strength of solution envisaged at the commencement of the project

Adobe solutions for guided benefits enrollment

- http://www.adobe.com/government/pdfs/guided_benefits_enrollment_sb.pdf

Government Faster, Smarter

- http://www.adobe.com/government/pdfs/gov_faster_smarter_report.pdf

Kane County Circuit Court

- <http://www.adobe.com/cfusion/showcase/index.cfm?event=casestudydetail&casestudyid=280322>

Land Title Branch, Province of British Columbia

- http://www.adobe.com/government/pdfs/land_title_branch.pdf

Orange County Planning and Development Services Department

- County populates building permit-related forms on-the-fly and signs them digitally with Adobe Acrobat, Java libraries, and CIC Sign-It for Adobe Acrobat
http://www.adobe.com/epaper/spotlights/countygovt/pdfs/orange_county_cs.pdf

Highway engineers leverage digital approval processes using Adobe® Acrobat® software

- Chartered by the Spanish Ministry of Public Works, the Association of Highway, Canal, and Port Engineers, known as the Colegio de Ingenieros de Caminos, Canales, y Puertos (CICCP), is the official civil engineering organization of certified engineers working throughout Spain.
http://www.adobe.com/products/acrobat/pdfs/spain_caminos_cs.pdf



Tribunale di Cremona -- an efficient unit of the Italian legal system

- http://www.adobe.com/cfusion/showcase/index.cfm?event=casestudydetail&casestudyid=377905&loc=en_us