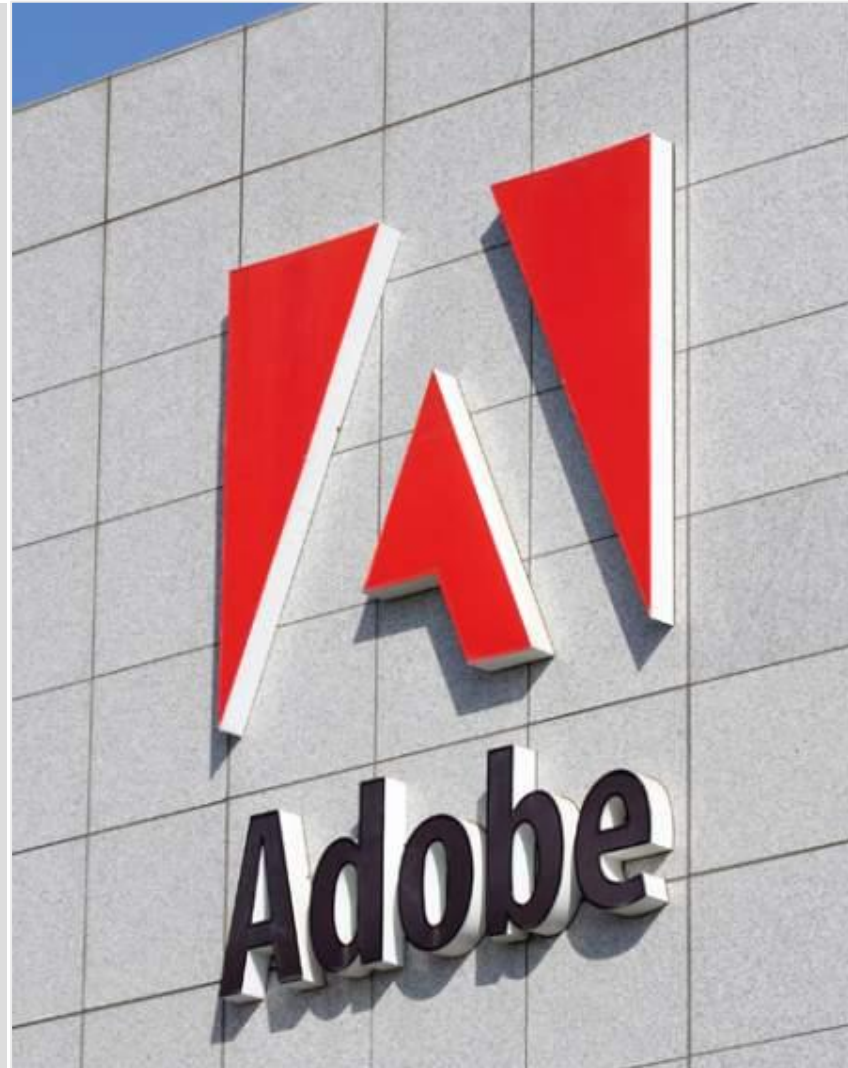


Portable Document Format

可攜式文件發展

Joseph Lee

2007/7



應用最廣、符合交換標準的 Adobe PDF 格式



90% PCs

PDF (1993 - Now)

PDF/A, PDF/X 均為 ISO 標準

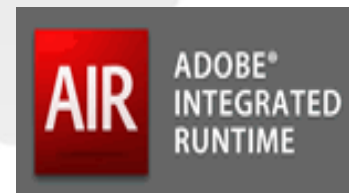
網路上超過 2 億 5 千份 PDF



98% PCs

Flash (1996 - Now)

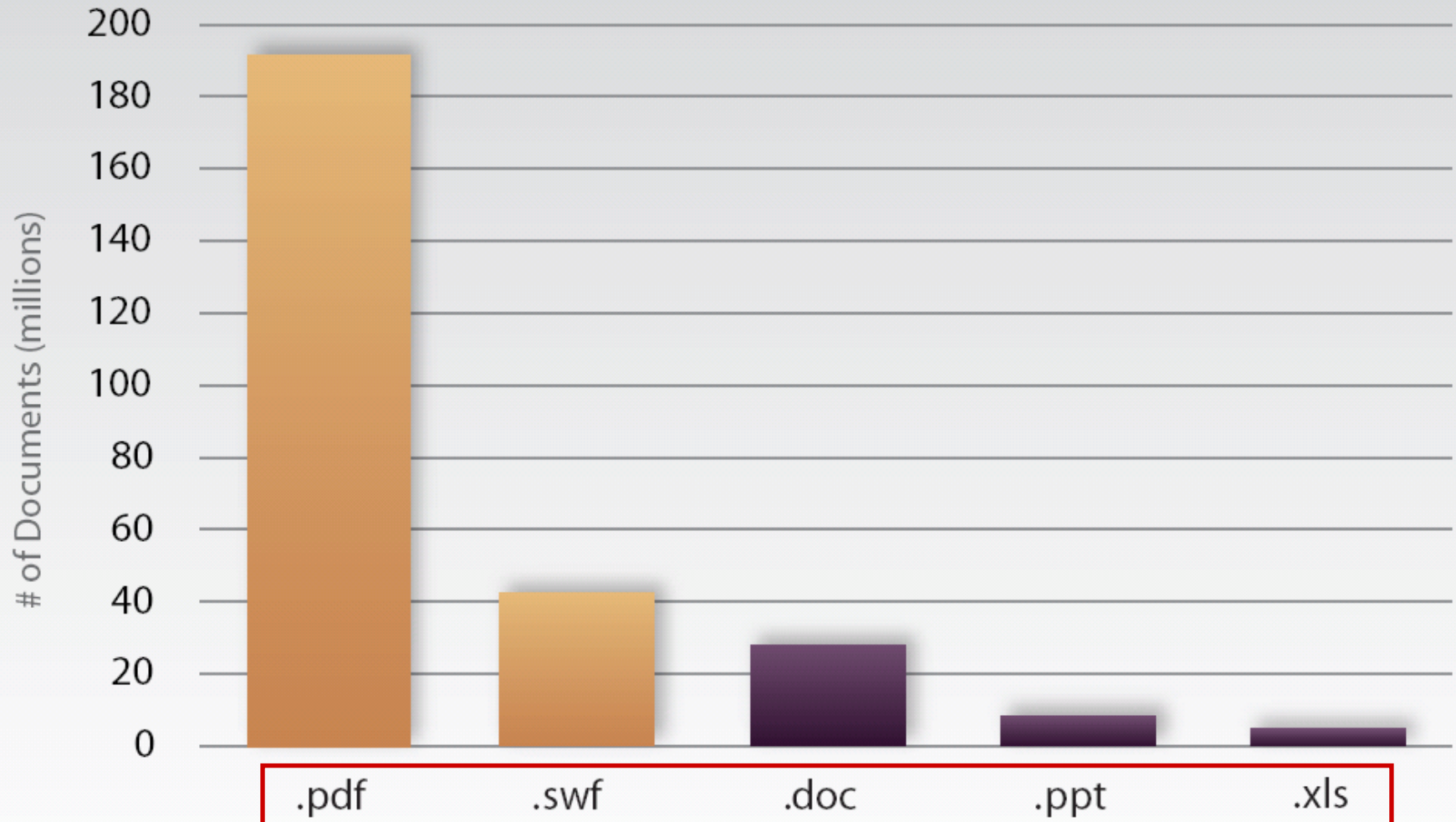
每天 800 萬個安裝



7 億個 PC
2 億個 裝置



Frequency of File Types Published to the Web



Source: google.com

PDF 已由業界標準邁向正式的官方標準

資料交換 (Exchange)

Adobe PDF

1993



PDF/X

2001 (ISO 15929, ISO 15930)



永久保存 (Archive)

PDF/A

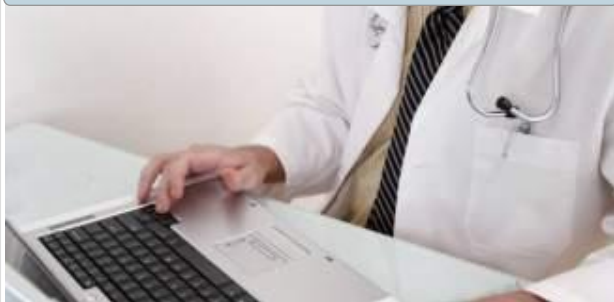
2005 (ISO19005-1)



醫療 (Healthcare)

PDF/H

Under Way



工程 (Engineering)

PDF/E

2007 (ISO 審查中)



無障礙閱讀 (Universal Access)

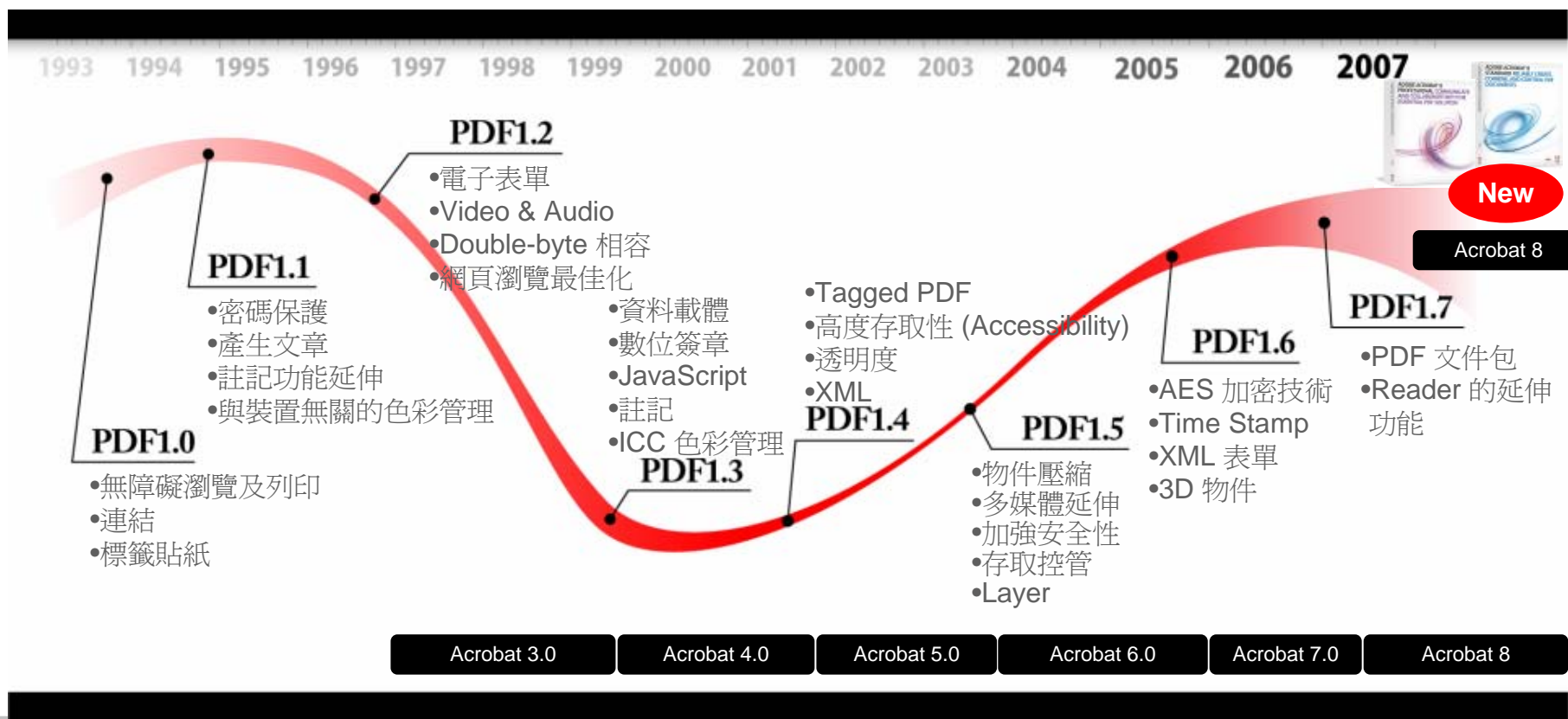
PDF/UA

Under Way



Adobe PDF 與 Acrobat 的進化

- **PDF: Portable Document Format (可攜式文件)**
 - Adobe Systems 發展 PDF (1993 - 目前)
 - 目前在進行 ISO 32000 申請作業中 – Formal, Open standard



智慧型 PDF 整合應用

Universal Client



智慧型文件



PDF + XML



LiveCycle
產品

自動化程序

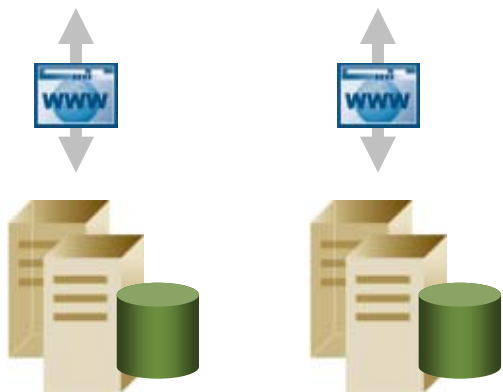
資料認證

產生文件

資料庫

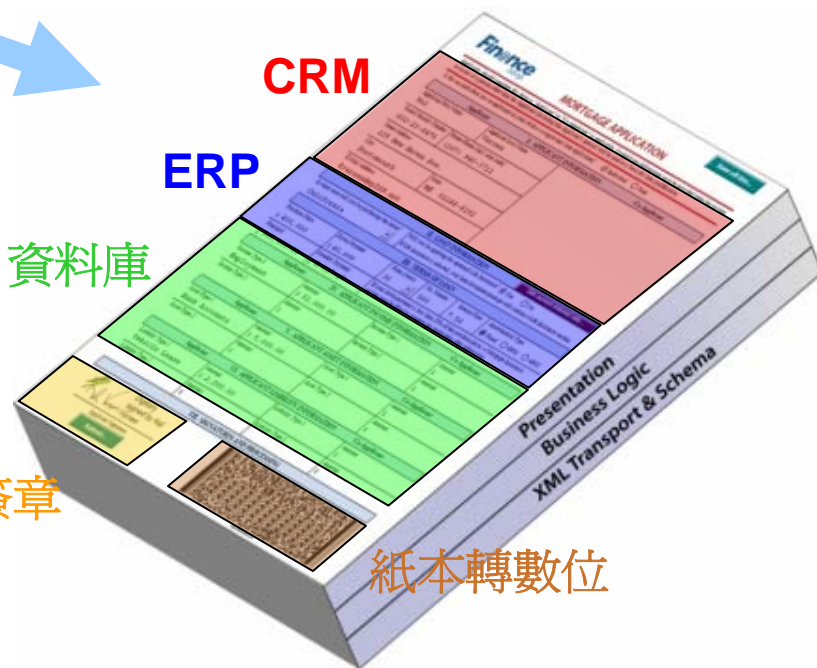


既有環境
ERP, SCM



電子簽章

紙本轉數位



PDF: 真正 **P**ortable + 多元 **D**ocument + ISO **F**ormat

- 持續支援 新版 **OS**、**瀏覽器**、**程式**
 - 無障礙瀏覽及列印
 - **ICC** 色彩管理
 - **Double-byte** 相容
- **PKI**、**XML** 交換標準
 - 數位簽章、**Time Stamp**
 - 資料載體
 - 電子表單、**XML** 表單
 - **Reader** 的延伸功能
- **多媒體**、**Web2.0**
 - 影音、多媒體延伸
 - **3D** 物件

美國聯邦政府

美國聯邦政府部門和機構

- 2000/8/7開始，要求 PDF 電子文件須方便於視覺受損或其他傷殘人員的存取格式
- 減少紙張法案 (Paperwork Reduction Act)
- 美國國稅單位 (IRS)
 - 10萬名員工，作業時間縮短 95%
 - 1999 年開始，全面化提供可填寫 PDF 表單。
 - 納稅人可以先連線填好表格（免費的 Adobe Reader），然後再列印並郵寄出最終版本。
- 減少紙本作業開支、提高服務品質
 - 聯邦法院、國家航空和航天局 (NASA)、美國郵政服務 (USPS)、小型企業管理局 (SBA)、人口普查局 (Census Bureau)

Final K-1 Amended K-1 OMB No. 1545-0020 651106

Schedule K-1 (Form 1065) 2006

Department of the Treasury Internal Revenue Service For calendar year 2006, or tax year beginning 2006

Partner's Share of Income, Deductions, Credits, etc. See back of form and separate instructions.

Part I Information About the Partnership

A Partner's employer identification number

B Partner's name, address, city, state, and ZIP code

C IRB Center where partnership filed return

D Check if this is a publicly traded partnership (PTP)

E Tax shelter registration number, if any

F Check if Form 6271 is attached

Part II Information About the Partner

G Partner's identifying number

H Partner's name, address, city, state, and ZIP code

I General partner or LLC member-manager Limited partner or other LLC member

J Domestic partner Foreign partner

K What type of entity is this partner?

	Beginning	%	Ending	%
Profit		%		%
Loss		%		%
Capital		%		%

L Partner's share of profit, loss, and capital:

M Partner's share of liabilities at year end:

Nonrecourse		0
Qualified nonrecourse financing		0
Recourse		0

N Partner's capital account analysis:

Beginning capital account		0
Capital contributed during the year		0
Current year income (increase)		0
Withdrawals & distributions		0
Ending capital account		0

Tax basis GAAP Section 704(b) book

Other (explain)

Part III Partner's Share of Current Year Income, Deductions, Credits, and Other Items

1	Ordinary business income (loss)	16	Credits
2	Net rental real estate income (loss)	17	Alternative minimum tax (AMT) items
3	Other net rental income (loss)	18	Tax-exempt income and nondeductible expenses
4	Guaranteed payments	19	Distributions
5	Interest income	20	Other information
6a	Ordinary dividends		
6b	Qualified dividends		
7	Royalties		
8	Net short-term capital gain (loss)		
9a	Net long-term capital gain (loss)		
9b	Collectibles (28%) gain (loss)		
9c	Unrecaptured section 1250 gain		
10	Net section 1231 gain (loss)		
11	Other income (loss)		
12	Section 179 deduction		
13	Other deductions		
14	Self-employment earnings (loss)		

For IRS Use Only

For Privacy Act and Paperwork Reduction Act Notice, see Instructions for Form 1065. Cat. No. 11284R Schedule K-1 (Form 1065) 2006

美國食品與藥物管理局 (FDA)：加速藥物審批

- 食品與藥物現代化法案 (21CFR Part 11) 要求電子文件內容須符合：
 - 適用於審核
 - 原始內容的準確性
 - 完整的紙本文件的相同能力
- “大多數審核者都把 PDF 看作電子紙”
 - 原始紙本格式都保留下來。
 - 這有助於從紙本審核轉換到電子審核。”



美國疾病控制與預防中心 (CDC)：促進公眾健康

- PDF 成爲官方電子記錄副本
 - Web 網站與 CD-ROM
 - 發病率和死亡率週報 (Morbidity and Mortality Weekly Report)
 - 世界衛生組織 (WHO) 積極推廣
- “我們必須確保電子版文件與印刷版的內容完全一致”
 - “精確地重現很多特殊字元和統計表格”
 - CDC 測試組 試驗每個嵌入特殊字元

土地管理局 (Bureau of Land Management)

- **Problem:** “I own forms,” Donelson said. **“I have 600 forms”** to cover everything from cutting Christmas trees to leasing oil and gas on federal lands.
 - Most forms, however, are for internal use. **“We have a tremendous amount of paperwork inside the organization,”** he said.
- **Solution:** With their digital certificates, BLM employees can access and **sign PDF forms online.**
- **Benefit:** **“I’m shutting down a forms warehouse and getting rid of the expense and headache,”** Donelson said.

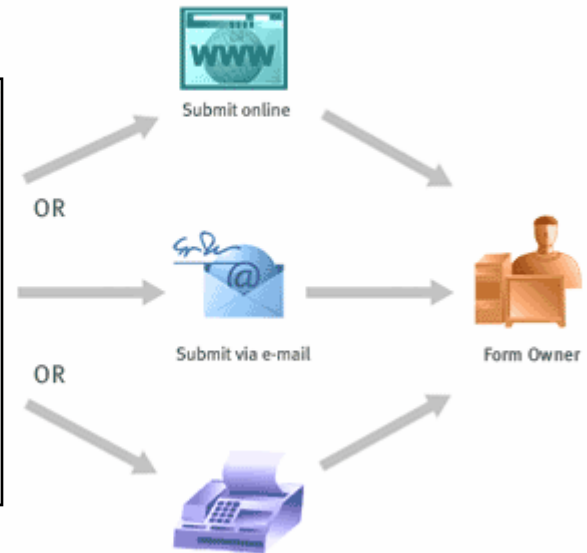
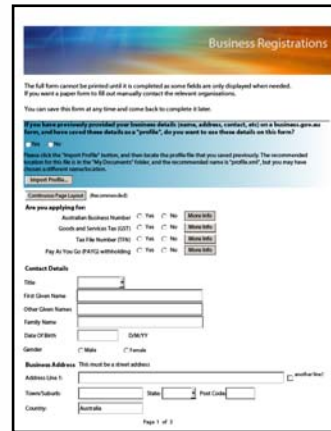


世界各政府一致採用 PDF 格式

- 印度 法律要求電子版本與紙本完全相同，並支援 官方承認的 18 種語言（大量使用造字及字體！）
 - 印度大選委員會 (Election Commission of India, ECI) 將本國的選票列表（6億多張）以 PDF 格式製作在 CD-ROM 上，其中一部分原因是法律要求電子版本與紙本完全相同。此外，還必須用印度官方承認的 18 種語言（使用各自的字體！）發佈這一列表。這加起來大約是 813,000 個 PDF 檔--這時上次的計數結果。
- 澳大利亞 全面努力推動電子化目標：成長、創新、投資、國際競爭力
 - business.gov.au 推動法院、工業、旅遊、立法、行政機構中大量應用 PDF。
- 墨爾本：“在所有當前可用的文件格式中，PDF最適合於長期保存記錄”
決策依據：廣泛的接受性、保留原文件的準確性、可以免費獲得
 - 在墨爾本，維多利亞政府記錄辦公室 (Public Record Office Victoria, PROV)，於1999年 3月該機構發行了一份報告，詳細闡述了“在所有當前可用的文件格式中，PDF最適合於長期保存記錄”，並以其廣泛的接受性、保留原文件的準確性和可以免費獲得的出版規範作為決策依據。

評估讓 Australia 小型企業兩年節省 450 億澳元 (例如：市議會/委員會的某些核准要走 12 張紙本表單流程)

- **Welcome to GovForms**
 - Government forms for your business
- **SmartForms**
 - Tools to help government agencies produce faster, intelligent forms
- **business.gov.au**
 - Your business gateway to government information and services



**Saving your Council and your customers...
42 forms combined down to just 17**

BEFORE... 42 forms
Previous 42 Council forms consolidated into SmartForms
(where applicable)

AFTER... 17 forms
Local SmartForms released
(April 07)



New technology to cut red tape in Palmerston

4 July 2006

The process of applying for local government permits will become an easier task for small businesses in the Northern Territory city of Palmerston after the unveiling of exciting new interactive technology.

Speaking at the launch of a demonstration project in the city, Small Business Minister Fran Bailey said the new technology, which has automated a number of the Palmerston City Council's application forms, would deliver significant benefits to the local business community.

"Businesses wanting to obtain Council permits had previously been required to fill out up to 12 different paper-based forms, but they can now complete these documents online", said Fran Bailey.

"This exciting new project will make it simpler and easier for small business and will save them time and money. I would encourage any small business that requires a permit from the Palmerston Council to use the technology, and to take advantage of the time and money it will save them."

The project is being supported by the Australian Government's *Regulation Reduction Incentive Fund* - a program estimated to be saving Australian small businesses \$450 million over the next two years by assisting local government bodies to lower regulatory costs.

世界各政府一致採用 PDF 格式

- 加拿大卑詩省地政局 (Land Title Branch, Province of British Columbia)
 - 藉由採用建基於 **Acrobat** 和 **Adobe PDF** 表單的安全電子文件解決方案, 該單位建立的端對端工作流程達成了節省每月 6,000 加幣的成本費用。
- 公路、水道與港埠工程協會 (Association of Highway, Canal, and Port Engineer)
 - 西班牙認證合格工程師所組成的官方土木工程組織, 透過結合 **Adobe** 數位簽章解決方案與 **ipsCA** 位憑證, 簡化每年數千份計劃的審核程序。
- 美國食品藥物管理局生物評估與研究中心 (U.S. Food and Drug Administration, Center for Biologics Evaluation and Research)
 - **FDA/CBER** 採用電子文件提交作業, 以精簡審閱和處理生物研究資訊的流程。
- 維多利亞公開記錄檔案室 (Public Record Office of Victoria)
 - 該州立封存機構利用 **Adobe** 軟體, 將政策文件、產業報告、管理方針, 轉換為該機構在封存和儲存文件時所採用的標準 **PDF** 格式。
- 高速公路、運河與港口工程師協會 (Association of Highway, Canal, and Port Engineers)
 - 認證合格之工程師所組成的西班牙官方土木工程組織, 結合了 **Adobe** 數位簽名解決方案與 **ipsCA** 位憑證, 精簡每年數以千計之計劃的審核程序。
- 加拿大核能安全委員會 (Canadian Nuclear Safety Commission)
 - 加拿大核能安全委員會採用 **Adobe** 的表單自動化和技術, 把人工時間表程序轉換為電子工作流程, 將工作時間從幾個星期縮減為幾個小時甚至幾分鐘。
- Cham 地區行政辦公室
 - 為了建立一應俱全的線上管理, Cham 地區行政辦公室與 **LivingData** 一同根據 **Adobe®** 智慧型文件平台發展出電子表單解決方案。
- 中國學術交換服務中心 (Chinese Service Center for Scholarly Exchange)
 - 過去在利用 **Adobe Workflow Server** and **Adobe Form Client** 軟體精簡程序之前, 要申請護照和簽證必須親自前往北京, 並且耗費五天填寫表單。
- Deutsche Post
 - 德意志郵政 (**Deutsche Post**) 使用 **Adobe** 的解決方案, 讓客戶可以製造及列印具品質的合法郵票, 以郵寄信件和包裹。
- 聯邦航空管理局 (Federal Aviation Administration)
 - **FAA** 利用 **Adobe Acrobat®** 軟體隨時更新重要資訊, 並且開放該軟體讓 2,400 名日以繼夜工作的安全督察員使用。
- InfoCamere
 - **InfoCamere** 使用 **Adobe** 智慧型文件平台, 讓企業能夠準備, 並以電子的方式傳送他們的財務報告, 從而節省時間、精簡程序, 以及透過數位簽章來保障安全性。
- 國稅局 (Internal Revenue Service)
 - **IRS** 將所有稅務表單以 **PDF** 檔形式置於網站上, 開放讓大眾免費使用, 因而為它自己和納稅人節省了數以百萬的金錢。
- 義大利國家社會保險局 (INPS)
 - **INPS** 把 80 種紙張表單轉換為 **Adobe PDF**, 讓所有成員線上使用。同時它也利用 **Adobe** 技術, 更有效的處理填好的表單。目前每月約有 700,000 個人以電子方式存取和送出表單, 不但增加 **INPS** 與成員的溝通機會, 並且降低建立、散佈、收集和處理表單的成本。
- Italian Workers' Compensation Authority (INAIL)
 - 義大利勞工公傷事故賠償機構 (**INAIL**), 是義大利的政府機構。他們採用 **Adobe** 的解決方案建立數位事件管理系統, 大大減低成本, 並提高員工的產力。
- 堪薩斯州交通局 (Kansas Department of Transportation)
 - 該州立交通局部署了 **Adobe** 解決方案, 來精簡申請高速公路通行權的提交和處理作業, 不但加強員工的合作關係, 同時也將 24 個管理流程自動化。
- BC 省地政部 (Land Title Branch, Province of British Columbia)
 - 地政部門使用以 **Adobe Acrobat** 軟體和 **Adobe PDF** 表單為依據的安全電子文件解決方案, 來精簡土地登記處理程序。
- 麥德威市議會 (Medway Council)
 - 英國當地政府機構利用 **Adobe** 智慧型文件平台, 加速表單處理的速度, 並且提供線上使用主要服務。
- 新南威爾士山林火災消防服務 (New South Wales Rural Fire Service)
 - 透過 **Adobe** 解決方案合作夥伴 **Indigo Pacific** 的協助, 新南威爾士山林火災消防服務 (**New South Wales Rural Fire Service**) 開發出一套線上表單的採購系統, 且已安裝上線。在初始開發的六個月內, **Adobe** 解決方案已經在各地做初次公開展示。
- 加州橙縣 (Orange County, California)
 - 利用 **PDF** 建立可以數位簽名而且集中存放的表單, 精簡其建築許可程序。
- RealChoices ACCESS
 - 為提供網路服務業者, 利用 **Adobe** 表單解決方案來提升民眾對重要政府方案的存取。實行 **Adobe** 解決方案, 不但降低機構營運成本, 並且改善表單資訊的正確性及一致性。

PDF: 產生 → 安全 → 發佈

Adobe Solutions for Government Case Management

Generate

1



Create content in multiple forms of media

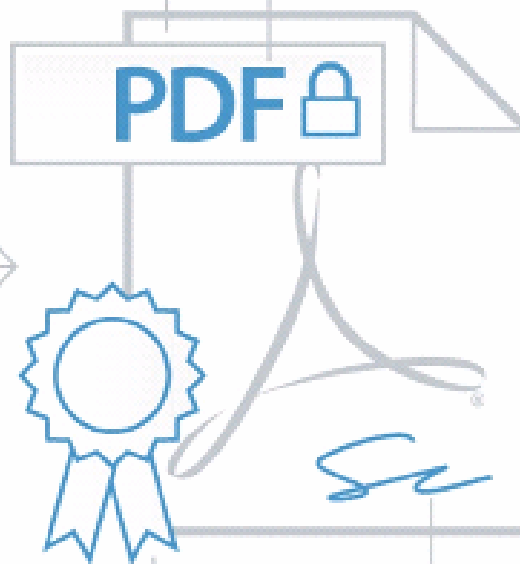


Collect data from office systems and processes

Secure

2 Generate/Assemble content as PDF

3 Assign security policies to manage permissions



4 Certify document to help ensure authenticity and integrity

5 Add digital signatures to verify approval

Distribute



6 Distribute to web, e-mail, or another process, or view in real-time collaboration

企業端應用：XML Schema → 拉出 PDF ↔ 輸出 Flash 表單

Mortgage Application

Step 1: General Mortgage Information

Step 2: Property Information

Step 3: Applicant Information

First Name *

Last Name *

Social Security Number *

Daytime Phone Number *

Mobile Phone Number

Notify me on this number when the status of my mortgage changes

Email Address *

Are you a US citizen? Yes No

Step 4: Employment History

Step 5: Financial Assets

Step 6: Real Estate Assets

Step 7: Other Assets

UNITED STATES DEPARTMENT OF THE INTERIOR
FORM NO. 01-1020
FORM APPROVED BY COMP. GEN. U.S.
NOVEMBER 8, 1948

TRAVEL AUTHORIZATION

1. No. _____
2. _____ (DATE)

3. _____
(BUREAU OR OFFICE)

4. NAME _____ 5. OFFICIAL STATION _____

6. TITLE _____ 7. ACCOUNTING OFFICE _____

You are authorized to travel as indicated below and to incur necessary expenses in accordance with applicable laws and regulations.

PLACES OF TRAVEL

8. FROM: _____
9. TO: _____

10. PURPOSE AND REMARKS: _____

11. PER DIEM ALLOWANCE: _____

12. PERIOD OF TRAVEL: Beginning on or about _____ Ending on or about _____

MODE OF TRAVEL

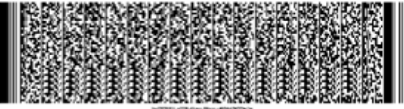
13. Common carrier 14. Extra fare at a mileage rate of _____ 15. Government-owned conveyance
16. Privately owned
(a) Administratively determined to be the advantage of the Government
(b) A showing of advantage to the Government
(c) Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. Transportation immediate family 19. Shipment household goods and personal effects
18. Other (specify) _____

ESTIMATED COST

20. Transportation _____ \$ _____
21. Per Diem _____
22. Other _____
23. TOTAL _____ \$ _____

24. CHARGED TO: 

26. _____
(REQUESTER'S SIGNATURE)

27. _____
(TITLE)

28. _____
(AUTHORIZING OFFICER'S SIGNATURE)

29. _____
(TITLE)

This form was electronically produced by Elite Federal Forms, Inc.



整合性、完整性、容易操作

電子佈告欄、地理位置資訊線、線上/離線分享、線上協同



ResponseNet

10:31
2006-10-16

Latest Updates

- 10:29 Evacuation transport en route
- 10:28 Additional resources required
- 10:00 Mayor requests update
- 09:48 Resources determined
- 09:33 Evacuation planned
- 09:24 Situation assessed
- 09:18 Response team assembled
- 09:00 Initial report

POST UPDATE

Medical supplies needed at temporary evac location

RED FLAG SUBMIT

Resource Utilization

- Star icon: [Progress bar]
- Flame icon: [Progress bar]
- Plus icon: [Progress bar]

Live Conference

Area Maps

Contacts

- Fire Chief: (123) 555-0713
- Police Chief: (123) 888-7301
- Mayor's Office: (123) 555-4131
- Dispatcher: (123) 888-9771
- National Guard: (123) 555-2620



LiveCycle 系統層面

跨平台的客戶端

使用者操作介面技術

工具組

LIVECYCLE ES
ENTERPRISE SUITE

Solution
Component

基礎平台



ECM

CRM/SFA

ERP

LDAP

...

現有客戶架構

LiveCycle ES Solution Component

LiveCycle Forms ES	■	■
LiveCycle Data Services ES (formerly Flex Data Services)	■	■
LiveCycle Barcoded Forms ES	■	■
LiveCycle Reader Extensions ES	■	■
LiveCycle Process Management ES (formerly LiveCycle Workflow)		■
LiveCycle Rights Management ES (formerly LiveCycle Policy Server)		■
LiveCycle Digital Signatures ES (formerly LiveCycle Security Server)		■
LiveCycle Output ES (formerly LiveCycle Print)		■
LiveCycle PDF Generator ES		
LiveCycle Production Print ES		
LiveCycle ECM Connectors		

■ Included in Data Capture Edition

■ Included in Business Transformation Edition

LiveCycle ES 的資料擷取

▪ LiveCycle Forms ES

- Dynamically renders forms and form guides
- Extracts information from forms
- Support for form fragments

▪ LiveCycle Data Services ES

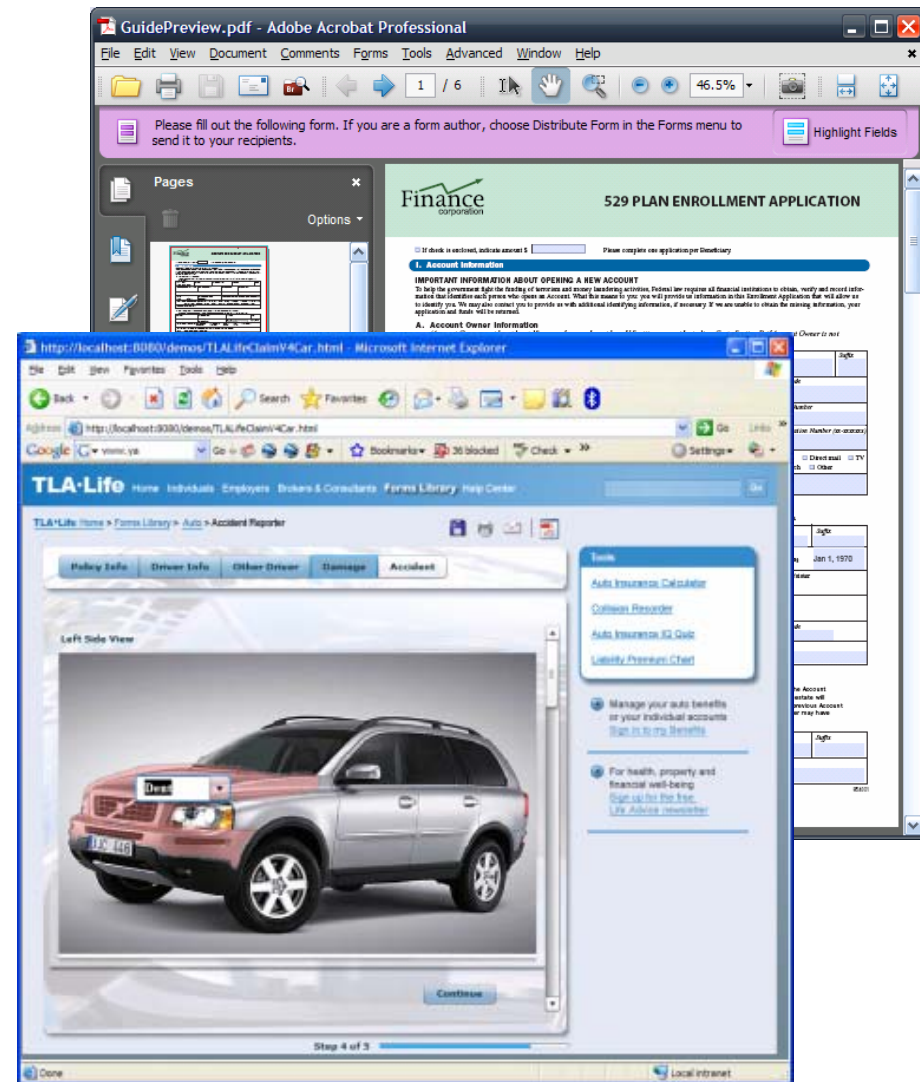
- Integrates RIAs with LiveCycle services, J2EE applications and business logic
 - Real-time data streaming and collaboration
 - Client/server data synchronization
 - RIA-to-PDF generation

▪ LiveCycle Barcoded Forms ES

- Provides paper to digital functionality

▪ LiveCycle Reader Extensions ES

- Turns on capabilities within Reader client



LiveCycle ES 專注在人機互動的作業

- LC 流程管理:

- **LiveCycle Workspace ES**

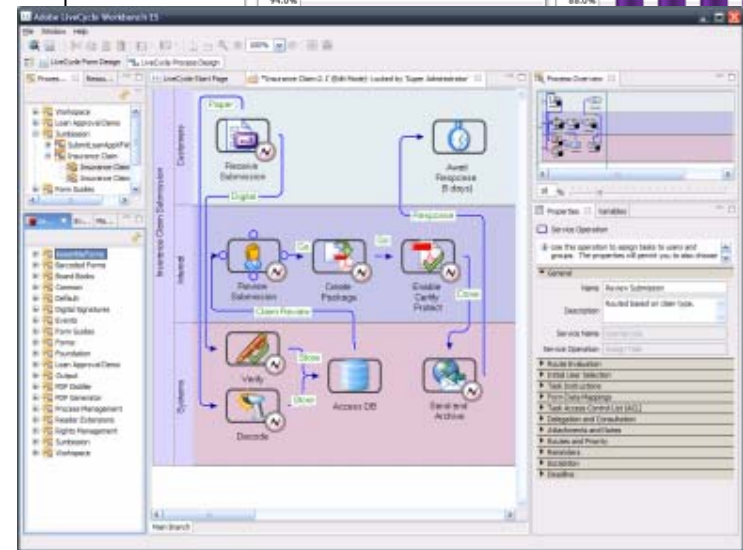
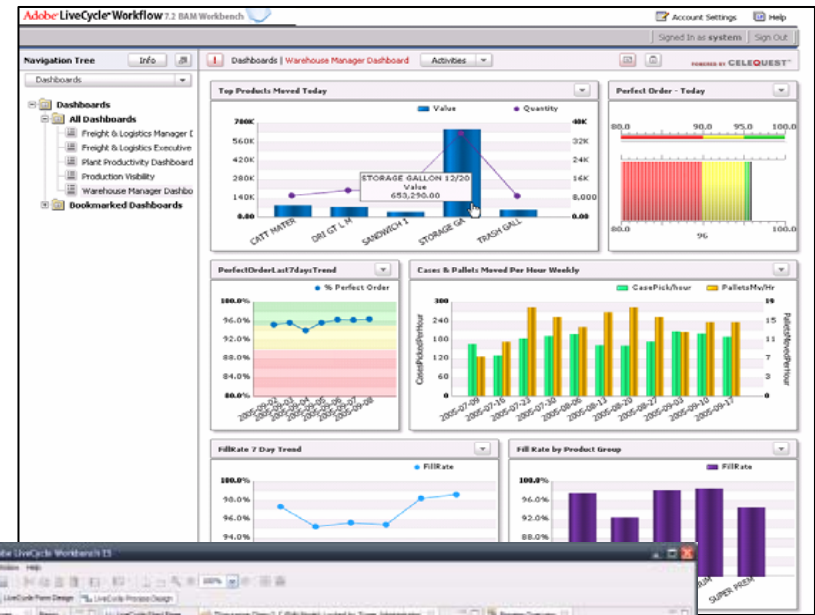
- Intuitive experience for initiating and participating in LiveCycle processes

- **LiveCycle BAM**

- Performance dashboards and visibility into critical business data
 - Multi-dimensional analysis, exception and alert reporting

- Additional components for “human-centric” operations (e.g. approve document, exception handling, etc.)

- Extensible architecture for custom components



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