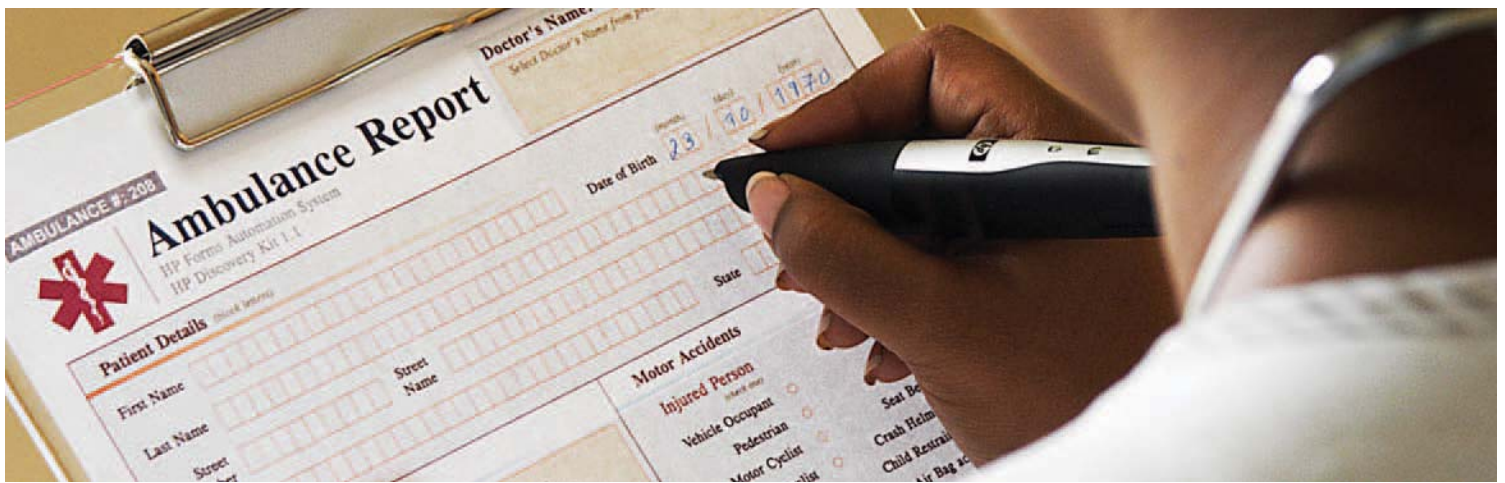
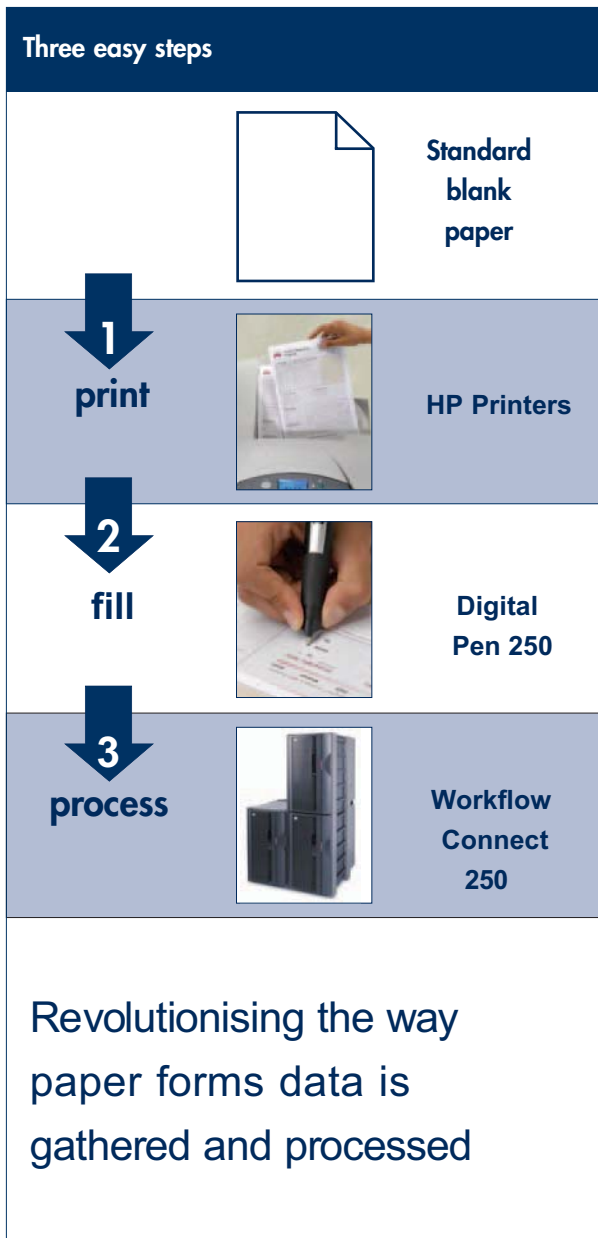


## Forms Automation System 1.2

Digital Pen and Paper



Simple. Seamless Integration. Efficient.



Forms Automation System – changing the way different industries do business

Experience ease of use, seamless integration and more efficient processes with the Forms Automation System (FAS).

The Forms Automation System radically accelerates forms processing. A unique, adaptable system, it uses a flexible software development kit with handwriting recognition, check box processing and interchange data format such as XFDF, XML, JPG and TIFF to integrate seamlessly into your IT infrastructure. Enabling concurrent data capture from paper to database transaction, in a matter of minutes or hours as opposed to weeks, results in benefits to your customers as well as your bottom line.

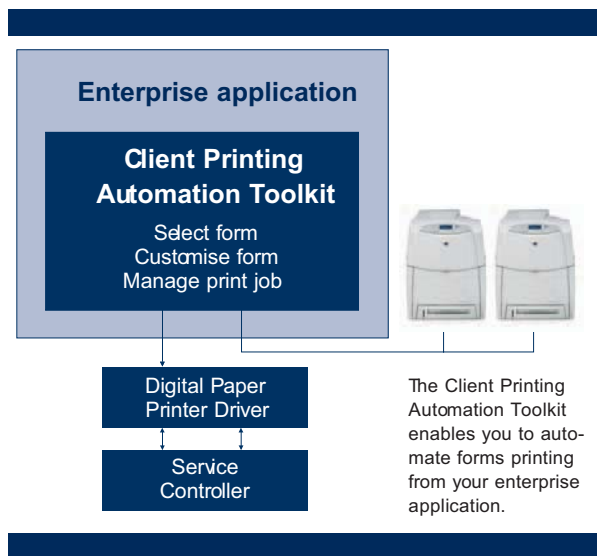
The universal interface of pen and paper makes the system intuitive and user-friendly, and a paper record still exists, if needed. No end-user training is required because users are already familiar with this natural form-filling process. The Digital Pen 250 is lightweight and compact—making it easy to use and transport. Easily print the form and any pre-filled content along with a uniquely patterned background using HP printers. HP has certified a wide range of HP printers for FAS.

# The Forms Automation System – enterprise-class benefits

## Print on Demand

Workflow Connect 250 is the only software of its kind that lets you create smart paper forms on demand. Simultaneously print the form and any pre-filled content along with a uniquely patterned background, using a wide range of HP printers certified for FAS. Instead of waiting for pre-printed forms in bulk, print what you need, when you need it.

**Client Printing Automation Toolkit** – Using this toolkit, you can automate forms printing from your enterprise application.



**Digital Paper Printer Driver 1.2**—expands the range of certified HP printers, from ultra low-end to high-end printers, that work with the Forms Automation System. Such a broad printer portfolio enables desktop to centralised publishing for greater flexibility and productivity.



## Solution Provider Program Partners

Solution Provider Program Partners are experts in the Forms Automation System. They will work with you to seamlessly integrate the Forms Automation System into your existing IT infrastructure leveraging a complete set of development tools and support services provided by FAS Group. These partners will work with you to review workflow and document processing and to assess, design and recommend automated workflow models that will meet your needs today and in the future. The complete directory of FAS Solution Provider Program Partners is available on: [www.fasgroup.net](http://www.fasgroup.net).

## Traceability

Track forms usage and processing by user and date. Keep an accurate record of who is filling out specific forms, even if different users fill out the same form, as well as the exact time that forms are filled or updated. Detailed traceability maintains accountability and precise historical records.

## Security

Multiple security measures safeguard your investment. Protect access to pen content with an end-user password. Secure the transmission of information via end-to-end encryption from the Digital Pen 250 to the enterprise back end. Authenticate pens so that they work with only one designated Forms Automation System. Assign specific user access to registered forms—preventing against unauthorised usage. Pen activation is automated and centralised for secure, yet simplified, deployment and management.

# Digital Pen 250 and Workflow Connect 250—writing and managing the forms workflow process

## Digital Pen 250

With its ball-point ink cartridge, camera, force sensor and processor, the Digital Pen 250 lets you accurately capture handwritten information in a digital format for immediate processing.

### Ultra-mobile capture device

With the Digital Pen 250 and ordinary office paper, you have the most mobile data-capture solution on the market. Plus its large memory and long battery life let you gather data and work for long periods without having to download or recharge.

### Protect your pen with secure, sturdy attachments

Protect your Digital Pen 250 from theft or loss by securely attaching the cradle to your desk, table or stand and secure the pen to the cradle via an O-ring. Designed for intensive and repetitive docking and undocking, the cradle serves as a sturdy docking device in kiosk situations.

### Performs even in the most remote and extreme environments

Meeting IP 52 standard, the Digital Pen 250 can withstand harsh physical and environmental conditions—high temperatures, humidity, rain, dust, pressure, rough handling, dropping, direct sunlight and vibration—without affecting performance.

## Workflow Connect 250

A collection of software components, the Workflow Connect 250 manages each step of the forms workflow—interfacing with the printers, pens and enterprise back end.

**Digital Layout Designer**—enables the digital transformation of existing forms by importing PDF files

**Digital Paper Printer Driver**—prints content together with the unique pattern, using a wide range of HP printers certified for FAS

**Digital Pen Download Software**—transfers information captured by the Digital Pen 250 to appropriate back-end services

**Service Controller**—configures and securely manages communication between printers, pens and back-end services

**Digital Paper SDK**—provides tools to process captured information and connect easily to enterprise data workflow using standard formatting—XML, TIFF, JPG



A component of the Digital Paper SDK, the Express Connector application has a configurable interface, making workflow integration both fast and simple. Only limited development is required—simply select the desired format from standard options such as XML, TIFF, JPG and the type of data you need as output.

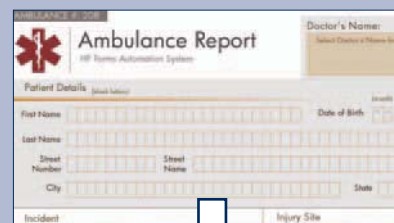
The Express Connector can perform automatic XML format transformation, resulting in an exact match to your specific XML schema.

## Handwriting Recognition Engine

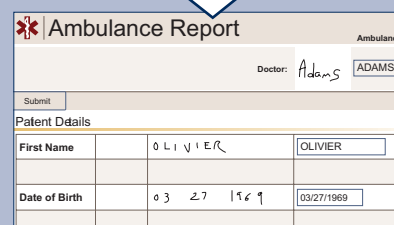
This optional feature integrates seamlessly with all the other Workflow Connect 250 components enabling accurate and fast transformation of handwritten information into digital characters.

The Handwriting Recognition Engine comes fully loaded with a wide range of language and data formats. This allows you to fine-tune or build your own data formats, so that you can adapt the solution to your particular requirements without the need for additional upgrades.

Set recognition rules for each field on a form and leverage Digital Pen 250 rich data capture to enable near real-time paper form to database applications.



Patient Details		Doctor's Name
First Name		Select Doctor's Name
Last Name		
Street Number	Street Name	
City		State
Incident		Injury Site



Patient Details		Doctor
First Name	OLIVIER	ADAMS
Date of Birth	03 27 1969	



## Forms Automation System— real benefits for the enterprise market

### Healthcare

“For more than 15 years, the CIHA system has been plagued with the problem of how to get data into the Resource and Patient Management System effectively and efficiently,” said Jim Eller, Ph.D., of CIHA.

“With the forms automation system, it’s going to allow us to get the data into our system much more quickly, more effectively and have a huge return on investment in terms of cost. We foresee our data entry processing costs reducing by 60 to 80 percent. It costs anywhere from about \$1.30 up to \$3.00 per form to manually process data entry forms. With this process, it’s much less expensive, faster and more accurate. We process about 120,000 forms per year here and if you multiply that by \$1.75 savings per form, it generates a huge return on investment annually.”

“Another key factor for going with the Digital Pen was that we can print the dot pattern on the form at the point of care, which allows you to get away from having pre-printed forms. Our encounter records are individualised for each patient. We need the capability to print them on the standard HP printers, and print the latest information as the patient data changes.”

Cherokee Indian Hospital Authority (CIHA) is an organisation that manages healthcare facilities for the Cherokee nation in the United States. FAS and additional workflow solutions will allow CIHA clinicians to efficiently and confidentially send patient data into the Resource and Patient Management System.

### Manufacturing

“The Forms Automation System has been quickly adapted to our existing work routines and it gives us the advantages of traceability combined with data capture and data processing for real-time data analysis,” said Jean-Roger Graziani, Senior Quality Manager, Commercial Helicopters Business Centre at Eurocopter. Eurocopter, an EADS company, is the world’s leading manufacturer of civil and military helicopters used for VIP passenger transport, rescue and police missions, offshore operations and special military needs. Not surprisingly, the highest standards of quality control are vital on Eurocopter’s production line where faults or problems have to be detected, processed and rectified as quickly as possible.

The Forms Automation System plays a key role in streamlining the process at one of the most critical times in the manufacture of the Dauphin helicopter—the final inspection. This occurs just before the security controls and flight tests, so it is essential that data on faults is captured, processed and acted upon speedily.

# Forms Automation System

## Technical specifications Workflow Connect 250

<b>Supported environments</b>	
Digital Layout Designer	Microsoft® Windows® 2000 Service Pack 4; or Microsoft Windows XP Professional Service Pack 1 and Service Pack 2; Adobe Acrobat® 5.0.5 or later; Adobe Acrobat 6.0 Professional or later (license not included in the Workflow Connect 250)
Digital Paper Printer Driver	<b>Operating system requirements:</b> Microsoft Windows 2000 Service Pack 4; or Windows XP Professional Service Pack 1 and Service Pack 2; Windows 2000 Server Service Pack 4; Windows Server 2003 Standard or Enterprise Edition, Service Pack 0 <b>Software requirements:</b> Microsoft .NET Framework v1.1 and Service Pack 1; Adobe Acrobat Reader version 5.0.5 or later; Adobe Acrobat 5.0.5 or later; Adobe Acrobat 6.0 Professional or later (license not included in the Workflow Connect 250)
Digital Pen Download Software	Microsoft Windows 2000 Service Pack 4; or Windows XP Professional Service Pack 1 and Service Pack 2; Microsoft Internet Explorer 5.0 Service Pack 3 or later, or 6.0 Service Pack 1; Microsoft .NET Framework 1.1 and Service Pack 1 (supplied on CD)
Digital Paper SDK	<b>Development environment:</b> Microsoft Windows 2000 Service Pack 4; or Microsoft Windows XP Professional Service Pack 1 and Service Pack 2; Java 2 SDK, Standard Edition 1.4.2; Apache Tomcat 4.1.30 (supplied on CD); Apache Axis 1.1 (supplied on CD); Apache Struts 1.2.2 (supplied on CD); Java Advanced Imaging 1.1.2 (supplied on CD) <b>Deployment environment (for ASHs):</b> Microsoft Windows 2000 Server Service Pack 4; Microsoft Windows Advanced Server Service Pack 4; or Microsoft Windows Server 2003 Standard or Enterprise Edition, Service Pack 0; Java 2 Runtime Environment, Standard Edition 1.4.2; Apache Tomcat 4.1.30; Apache Axis 1.1 (supplied on CD); Java Advanced Imaging 1.1.2 (supplied on CD)
Service Controller	<b>Server requirements:</b> Microsoft Windows 2000 Server Service Pack 4; Microsoft Windows 2000 Advanced Server Service Pack 4; or Microsoft Windows Server 2003 Standard or Enterprise Edition, Service Pack 0; Microsoft SQL Server 2000 Service Pack 3, Standard or Enterprise Edition; Microsoft SQL Server 2000 Driver for JDBC SP3; Java 2 SDK, Standard Edition 1.4.2; Apache Tomcat 4.1.30 (supplied on CD); Apache Struts 1.2.2 (supplied on CD); Microsoft .NET Framework 1.1 and Service Pack 1 (supplied on CD); an LDAP-compatible directory service such as Microsoft Active Directory required to manage users outside the Service Controller <b>Client requirements:</b> Microsoft Windows 2000 Service Pack 4; or Microsoft Windows XP Professional Service Pack 1 and Service Pack 2; Microsoft Internet Explorer 5.0 Service Pack 3 or later, or 6.0 Service Pack 1
<b>Handwriting Recognition Engine</b>	Handwriting Recognition Engine is sold as an option to the Workflow Connect 250. It integrates seamlessly with all the other Workflow Connect components, enabling accurate and fast transformation of handwritten information into digital characters. Supported languages are English (US and UK), French, German, Italian, Spanish, Swedish, Dutch, Danish and Portuguese. <b>Development environment:</b> Windows 2000 Professional Service Pack 4; or Windows XP Professional Service Pack 1 and Service Pack 2; Sun Java 2 SDK, Standard Edition 1.4.2; Microsoft Internet Explorer 5.0 Service Pack 3 or later, or 6.0 Service Pack 1—required for reading the online documentation <b>Deployment environment (for ASHs):</b> Windows 2000 Server Service Pack 4; or Windows Advanced Server or Service Pack 4; Windows Server 2003 Standard or Enterprise Edition; Sun Java 2 Runtime Environment, Standard Edition 1.4.2
<b>Import file formats supported</b>	Verity TeleForm, MS Office, Quark XPress, Adobe FrameMaker via PDF, ReadSoft FORMS via TIFF, paper using standard TWAIN scanner device, any PDF, HTML & Image file (BMP, JPEG, PNG, TIFF, PCX)
<b>Media sizes standard</b>	Printer dependent: letter, legal, executive, tabloid, P3-P6, A3-A10, B3-B10, C3-C10, (B3)JIS-(B10)JIS, (and any custom sizes within this range of media sizes); A3 (landscape only)
<b>Media types</b>	Rain paper (light <75g/m2, color, recycled, bond, pre-punched, letterhead, pre-printed), labels
<b>Hardware compatibility</b>	The FAS 1.2 supports the HP Color LaserJet 5550, 5500, 4700, 4650, 4610, 4600, 3700, 3600, 2600n, 2550 and 2500; the HP LaserJet 9055mfp, 9040/9050mfp and 9000mfp; and HP LaserJet 9050, 9040, 9000, 4300, 4200, 2410+, 2300, 2200, 1320 and 1160. List will be updated based on printers lineup evolution. Monochrome printing may require form re-layout. Please contact your FAS Group representative for more information.
<b>Standard print languages</b>	HP PCL 5, HP postscript 3 emulation, host-based solutions
<b>Printer features supported</b>	Wide range of printing options supported such as multiple copies with unique pattern, printing on both sides. Automatic printing supported through Client Printing Automation Toolkit.
<b>Solution security description</b>	Access to forms and services is controlled at a per-user level. System only allows authorized users with activated pens to use the Workflow Connect 250. Usage can also be controlled by creating and managing groups of users. User access to the system, as well as print job information, can be secured by optionally using HTTPS. Service can be denied on a per-form, per-pen, per-user or per-user group level. Form instances can also be locked to prevent any further processing. Communication between the Digital Pen 250, the Service Controller and the processing application (ASH) can be authenticated and encrypted.
<b>Service and support</b>	Workflow Connect 250 software support is available through FAS Group Support contracts.

## Technical specifications Digital Pen 250

<b>Product weight</b>	Pen (cap on): 0.08 lb (37.4 g); cradle including cable: 0.5 lb (231 g)
<b>Product dimensions</b>	Pen (cap on): 1 x 6.1 in (25 x 156 mm); cradle 2.44 x 3.44 x 2.40 in (62 x 90 x 61 mm); cable length: 4.27 ft (1.3 m)
<b>Average battery life</b>	2.5 hours continuous writing use, 8 hours typical paper forms filling use, standby: cap on: 1 year; cap off: 20 hours; 2 hours approximate battery recharge time
<b>Average usage life</b>	150,000 hours
<b>Hardware compatibility</b>	Windows 2000 and XP PCs with a USB 1.1 port (also called High-Speed USB 2.0)
<b>Languages supported</b>	English, French, Italian, German, Norwegian, Spanish, Swedish
<b>Storage capacity—forms</b>	Up to 200 (The maximum number of forms stored may vary depending on the business form length and complexity.)
<b>Security management</b>	Password-protected pen; pen upload data only on request from trusted service controller; communication flow between pen and services can be encoded and have a time limited ticket
<b>What's in the box</b>	Digital Pen 250, docking station with USB connection to the PC, 5 ink refills, 1 O-ring. Digital Pen Download Software is shipped with Workflow Connect 250.
<b>Service/warranty</b>	2-years next business day express exchange service

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