

ExpeData® Digital Writing Solutions



OPTIMIZE DATA COLLECTION WITH DIGITAL WRITING

The growing base of mobile workers creates new data and communication challenges. Information technology departments are struggling to adapt existing technology and support infrastructure to meet new sets of demands. Mobile applications are increasingly complex with usability being a key obstacle to capturing complete data. Mobile equipment is subject to the environment. Extreme temperatures, unreliable connectivity and rough handling cause costs to become prohibitive and productivity to suffer.

When the information is rich, portability is key and the velocity of data is important, the ExpeData® digital writing system is an affordable accessory for handsets, portable computing devices and PCs. It gives organizations the ability to capture information simply and naturally—as it is handwritten—automatically converting the writing into a digital format, verifying it and making it available to backend systems such as workforce and inventory management, invoicing, health information, sales force automation and more.



Delivering Mobile Solutions to Mobile Customers



SOLUTION OVERVIEW

Digital Paper, Digital Pen, Pen Services



DIGITAL PAPER

The digital paper is the foundation of the solution containing a micro-printed patterned background behind the form layout. The ExpeData technology generates a unique pattern for each sheet of paper, ensuring that the correct information correlates to the right form. Equipped with the latest digital printing equipment and quality assurance measures, our manufacturing facilities produce high quality digital paper. Digital paper documents are available from long-run production to print-on-demand at the desktop. A variety of sizes and configurations are available depending on application needs.

DIGITAL PEN

The digital pen is a ballpoint pen with a camera built in and uses the pattern to record pen movements, capturing written information as it travels along the paper. Because each sheet has the unique pattern or "fingerprint," the camera in the pen recognizes the type of form used and whether a user has moved from one form to another. The written information is stored in the pen's memory until it wirelessly transfers via Bluetooth® technology or docks to a PC. This information transfers from the PC via a secure internet port or directly from a wireless data provider to the ExpeData Pen Services network.

PEN SERVICES

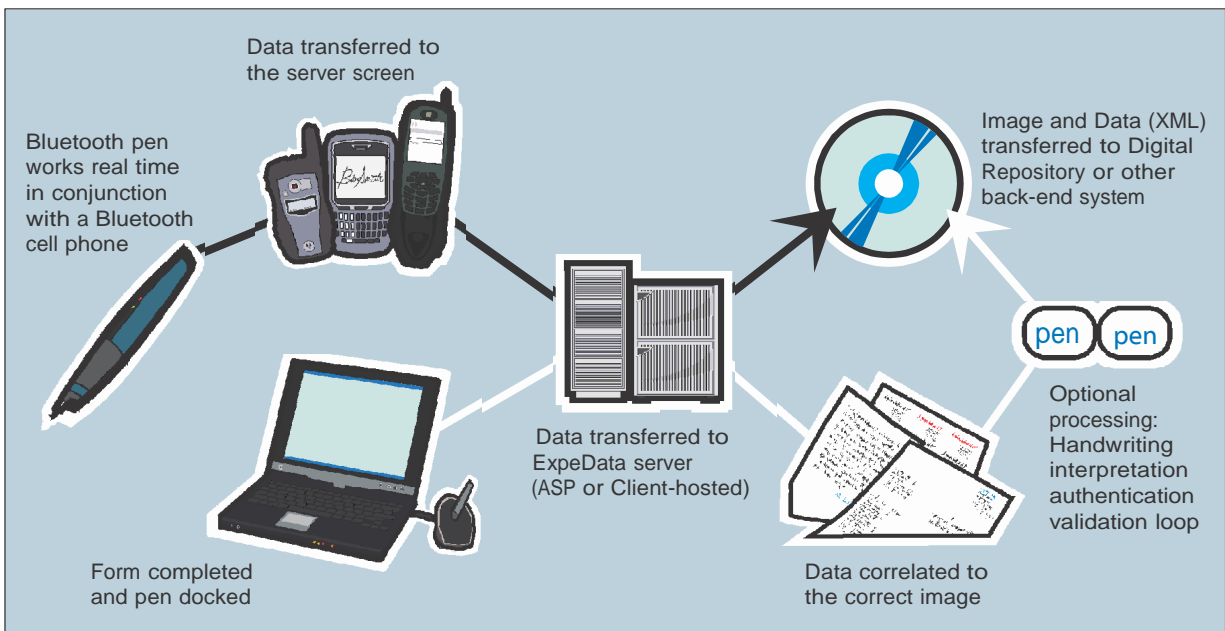
Application Service Provider (ASP)

ExpeData Pen Services is an ASP, hosting all aspects of data capture, interpretation of the written information and image generation. The processed information returns to the client as an .xml file for interpreted data or an image file format containing an exact replica of the document. This infrastructure simplifies deployment and is an ideal solution without requiring heavy capital investments.

Enterprise

For clients that require data be kept within their four walls, ExpeData offers an enterprise configuration that allows organizations to host the digital writing solution within the protection of their own network infrastructure, yet still have all of the power, flexibility and scalability of the ASP.

The following diagram illustrates the process flow from digital paper form completion to the information flow within the customer's environment:

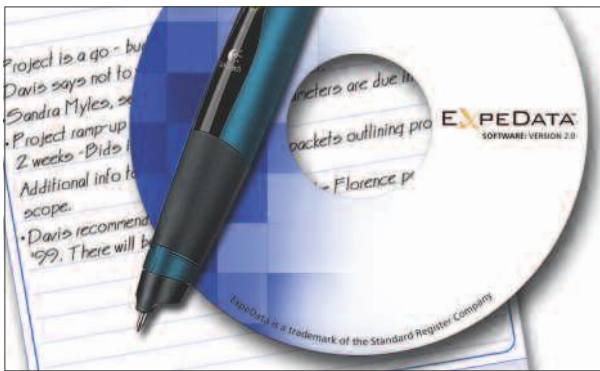


KEY FEATURES:

Handwriting Interpretation

Successful handwriting interpretation begins with proper analysis and forms design. Our team of experienced designers and analysts understand the complexities of user behavior when it comes to handwriting. The form layout is an important component, but behind the scenes, form fields are programmed to recognize generic, finite information sets (called “datatypes”) such as year, zip code, state and others that enable our software to more precisely interpret handwritten information.

The ExpeData interpretation engines update continuously to enhance usability and interpretation accuracy. We leverage advanced techniques including custom datatypes, database specific look-ups, customer-specific lexicons and graphical datatypes to maximize results.



Custom Datatypes

Our software can compare handwritten information to customer-specific datatypes or databases. For example, we could perform a look-up against a list of account numbers, sales rep names, account names, work orders numbers or medical dictionaries to limit the “choices” the engine would return through the interpretation cycle, thus improving accuracy.

Graphical Datatypes

Many applications require graphic images to make notations more meaningful and legible for others to understand. The ExpeData system allows a user to notate on graphics or diagrams that can translate into useable data and feed downstream systems. For example, check a temperature point on this thermometer and our engine reflects the exact value.



Image Output

Picture-perfect form images, complete with all preprinted and variable printed data as well as pen data are delivered in TIF, JPG or PDF files, via data transfer, FTP or optionally delivered by email to one or various addresses.

Data Output

The pen strokes transform into digital data that can feed backend systems. The digital data arrives in an industry-standard .xml format via data transfer, FTP or optionally as email.

Web-based Form Viewer

Accessing captured data and images is simple and flexible. Users can log into the ExpeData system from any Internet Explorer browser where they can view images, review and edit interpreted data, print and email PDFs...all in a secure environment with complete audit trail reporting. Additionally, advanced search capabilities allow you to find desired forms based on a variety of inputs, including handwritten and interpreted information.



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KEY FEATURES:

Security

We employ best practices security measures throughout the process including restricted access and user-right privileges. The ExpeData software features multi-level password protection from user to administrative levels, restricting access to captured data and images. The user can seal or “lock” a document after completion, preventing alterations. All data transmissions to and from our ASP are 128 bit SSL encrypted.

To ensure the data is protected and accessible, it passes through multiple firewalls and is backed up frequently. Custom tailored security measures are used based on the data transmission process (Bluetooth or USB docking).

For example, using Bluetooth’s pairing protocols, wireless pens can lock (“pair”) with a specific phone, preventing communication with any other phone.

Benefits

The ExpeData digital writing solution streamlines processes and improves the flow of information. It provides mobile workers a means to capture information conveniently, affordably and reliably while leveraging the power of digital technology.

- Mailing, faxing, scanning and key-entry costs are eliminated
- Training time and expenses are greatly reduced
- Real-time data availability speeds invoicing cycles, helps improve customer service and enables increased productivity (i.e. more service calls or patient visits per day)
- Date- and time- stamp availability provides a clear audit trail to help with regulatory compliance
- Interoperability with market-leading handsets and portable computing devices provides a seamless solution



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Minimum System Requirements

PC Requirements for USB Docking Systems

- Intel Pentium III Processor at 900MHz or better
- 128 MB RAM (256 MB or more Recommended)
- 20 MB hard drive of free space
- Available USB port
- Network-Wireless, Wired, or Modem for Internet Connectivity
- CD-ROM or DVD-ROM, or network installable

Software specifications

- Windows XP Professional Edition, SP1 or higher or
- Windows 2000 Professional Edition, SP3 or higher
- Microsoft .NET Framework 1.1
- Microsoft Internet Explorer 6.0 or later

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