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PixTools® Imaging Suite Powered by ISIS®

The Big Picture

PixTools is a suite of imaging toolkits that enables software developers to get imaging solutions up and running in as little as one day, ultimately driving a faster time to market. These toolkits enable applications to communicate with more than 300 scanners without the need for any additional software or hardware dongles (keys).

The PixTools imaging suite of developer toolkits includes:

- PixTools/EZ
- PixTools/Scan
- PixTools/View
- PixTools/Image Processing
- PixTools/Distributed Imaging

The PixTools suite of imaging products is a comprehensive set of Software Developer Kits (SDK) comprised of scanning, viewing and image processing modules. PixTools is ideal for developers who want to create custom document capture applications or embed powerful document imaging functionality into existing applications, all within the ISIS architecture – the industry-standard interface by EMC Captiva® that unites scanners with software applications. Because PixTools leverages ISIS, developers are assured that any application written with PixTools will accommodate virtually any existing or future scanner that is paired with their PixTools-based applications.

PixTools SDKs have a flexible licensing model including named, concurrent and server licensing for corporate and commercial deployments. EMC Captiva maintains long-term relationships with leading scanner manufacturers and utilizes hundreds of document scanners for development, testing and troubleshooting. And EMC Captiva imaging specialists provide unparalleled support.

Utilizing PixTools, experienced programmers can create a working document capture application in as little as one day. As a result time to market is shortened; and development, testing and support costs are reduced, increasing ROI and the ability to compete in an increasingly competitive market.

PixTools Capabilities

SCANNING

PixTools SDKs allow developers to embed ISIS scanning into any application, providing programmatic control of the entire scanning process and every scanner feature. Developers can easily: capture, save and compress images to popular industry file formats including TIFF, .JPG and .PDF; accommodate multi- or single-page documents; and incorporate imprinting, document separation, MultiStream and auto-color detection into their capture applications.

VIEWING

With PixTools-enabled applications, users can manage hundreds of documents efficiently and utilize image display, file conversion, image compression and image annotation features. During or after scanning, users may deploy display enhancements such as zoom, rotate or scale-to-gray. An image annotation library enhances

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ISIS®

ISIS (Image and Scanner Interface Specification) is the industry standard enterprise-level interface that unites scanners with software applications. ISIS allows scanners to run at their rated speeds or higher and is the only imaging solution that allows users to take full advantage of the power inherent in scanners and other imaging machines. ISIS drivers are available for over 300 document, book, check and large format scanners from more than 50 scanner hardware manufacturers worldwide.

documents with highlighting, redaction, arrows, custom stamps and pop-up text "sticky notes" in a variety of colors for increased clarity. Annotations are fully programmable, support the Wang imaging standard and offer full security customization. In addition to production scanning, the ISIS architecture provides built-in image management that enables enhanced performance over 3rd party viewers.

IMAGE PROCESSING

PixTools-based applications enable thorough document clean-up to reduce file size, improve image clarity and improve downstream data recognition and extraction functions. Built-in image processing filters allow users to crop, correct angle skew and remove noise. Users can resize documents with PixTools's ability to lock aspect ratios for accurate scaling. PixTools also includes data recognition capabilities such as barcode (1D and 2D), patchcode and blank page.

Choosing the Right Toolkit

The PixTools suite contains five SDKs: PixTools/EZ, PixTools/Scan, PixTools/View, PixTools/Image Processing and PixTools/Distributed Imaging (PDI). As components of a suite, the PixTools SDKs work better when used together. EMC Captiva recommends the following bundles:

PIXTOOLS/EZ & PIXTOOLS/IMAGE PROCESSING

With the complete scanning and viewing capabilities of PixTools/EZ, this software bundle provides the quickest entry into document capture management and satisfies the requirements of the majority of imaging applications. For rapid application development in Visual Basic & .NET environments PixTools/EZ (ActiveX) and PixTools/Image Processing (COM Object) provide developers complete control over document imaging integration.

PIXTOOLS/SCAN & PIXTOOLS/VIEW & PIXTOOLS/IMAGE PROCESSING

For system level access, the bundle of PixTools/Scan, PixTools/View, and PixTools/Image Processing provides a complete document imaging solution in the form of .dll libraries and COM objects for low-level application control. This solution is best for programmers who require very specialized control of their applications.

PIXTOOLS/DISTRIBUTED IMAGING

EMC Captiva also offers PixTools/Distributed Imaging (PDI). PDI works as a stand alone imaging solution or in conjunction with other PixTools SDKs to embed scanning directly into Web-based applications and process image and data transmission directly to Web servers. Users of applications built with PDI can securely scan, display and index directly within Internet Explorer. PDI is delivered as HTML compatible configurable ActiveX client control and a Java servlet making this solution ideal for adding distributed capture capabilities to an application. Multiple remote users can scan and index at the document creation source and then transmit documents to the Web server for access by other applications.

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EMC Captiva
10145 Pacific Heights Boulevard
San Diego, CA 92121

858.320.1100
www.emc.com/captiva

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