



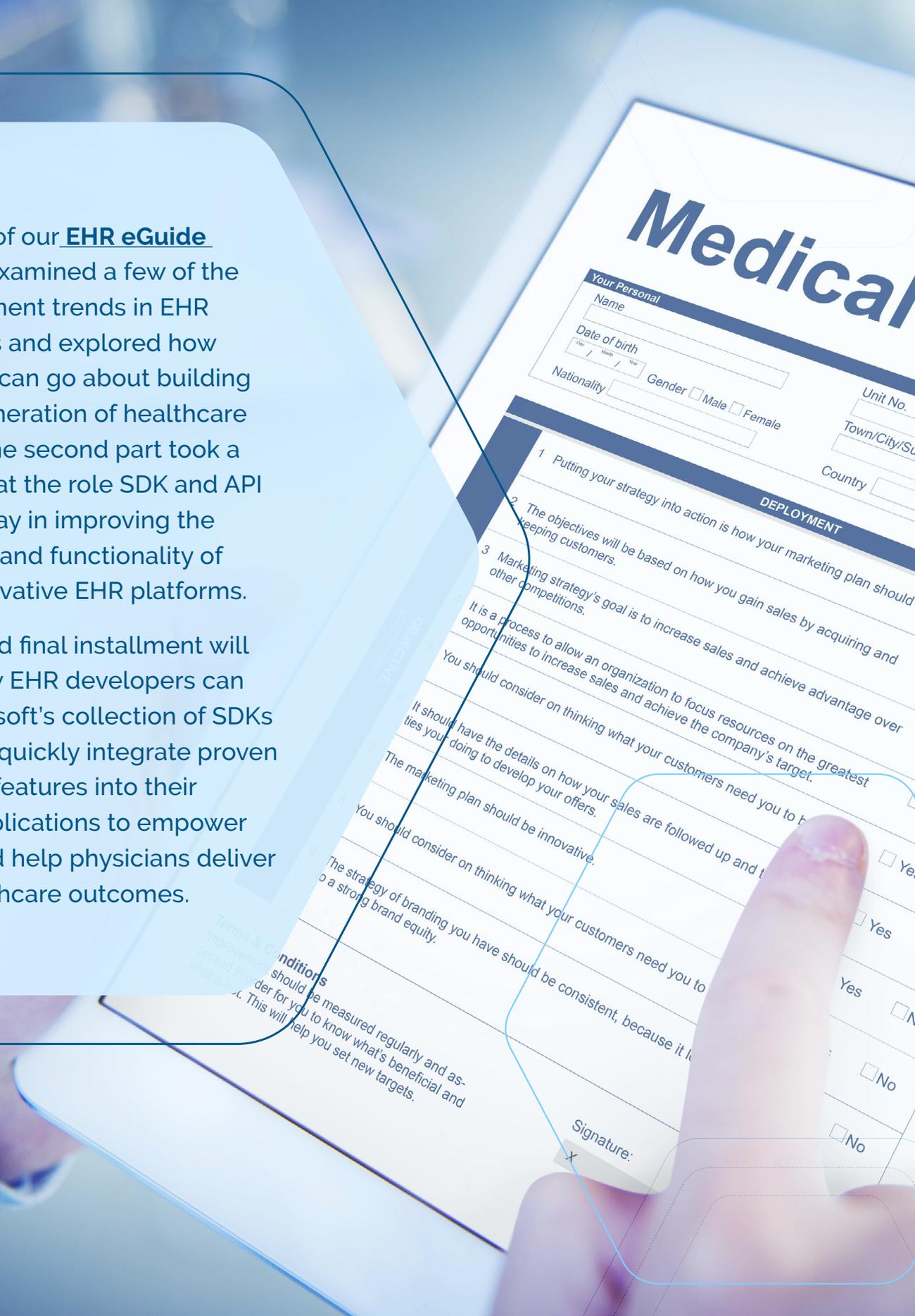
# Unlocking the Future of EHR Software with the Right Integrations

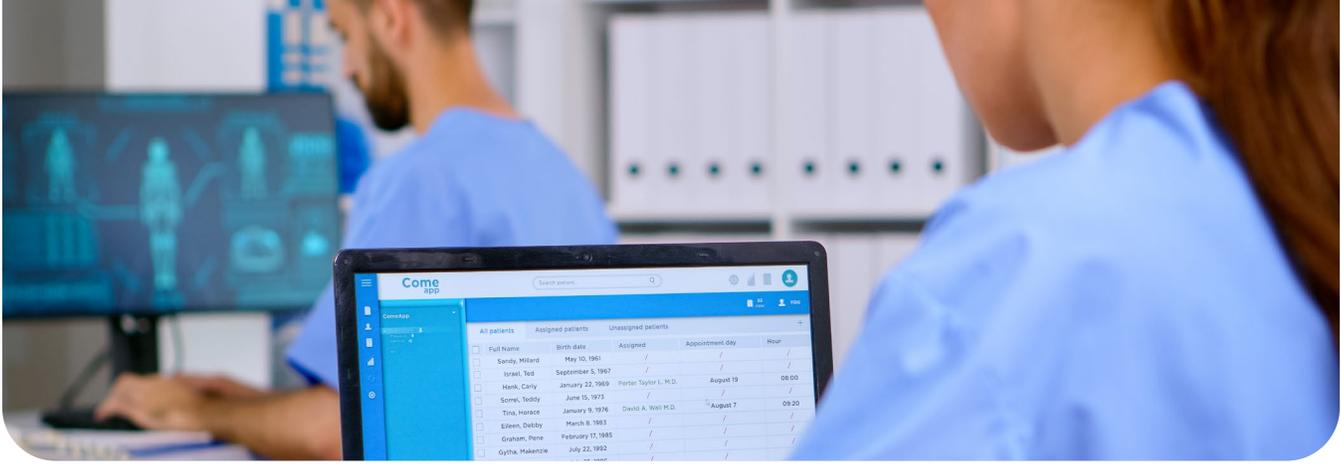
eGuide



In part one of our [EHR eGuide series](#), we examined a few of the most prominent trends in EHR applications and explored how developers can go about building the next generation of healthcare software. The second part took a closer look at the role SDK and API solutions play in improving the capabilities and functionality of today's innovative EHR platforms.

Our third and final installment will explore how EHR developers can utilize Accusoft's collection of SDKs and APIs to quickly integrate proven and robust features into their medical applications to empower patients and help physicians deliver better healthcare outcomes.





## PRIZMDOC VIEWER

Integrating an HTML5 viewer as part of a greater content management solution can vastly expand an EHR system's capabilities. From a pure viewing standpoint, it solves the core challenge of how to make multiple document and image file types accessible for both providers and patients. Rather than depending upon external applications like word processors or PDF readers to view content, the HTML5 viewer can simply render them through a browser interface within the EHR portal.

Accusoft's [PrizmDoc Viewer](#) provides more than just file reading capabilities, however. Its versatile APIs can handle essential workflow functions like file conversion, server-side search, document comparison, and splitting/merging files. More importantly, it also promotes better EHR interoperability with a full range of [annotation tools](#).

Physicians can use these markups to indicate points of concern on a medical image scan, for instance, or leave comments on a medical record when they pass it along to another office. This makes it easy to provide context for a diagnosis or draw attention to details mentioned elsewhere. With robust annotation tools at their fingertips, there's no reason why physicians should have to pass documents and other files along blindly, which creates tremendous inefficiency in the healthcare system.

Protecting privacy is also made easier thanks to PrizmDoc Viewer's [redaction capabilities](#). The redaction API can programmatically strike personally identifiable information (PII) from a document, which avoids embarrassing (and potentially costly) situations where sensitive data is recovered from an improperly redacted file. And since all viewing takes place within the EHR system itself by way of

HTML5, there's less reason for medical records to be downloaded from the secure application environment. That also helps to combat potential version confusion when it comes to patient files and other documents.

When deploying PrizmDoc Viewer within their EHR application, developers can determine which features will be made available to healthcare providers and which will be accessible for patients. This flexibility allows them to build a solution that makes sense for both categories of user, while also retaining the ability to make adjustments in the future based on changing industry trends.

**Discover what PrizmDoc Viewer can do for your EHR software by [downloading a free trial](#) today.**

## PRIZMDOC VIEWER BENEFITS



### HTML5 Viewing

Easily view multiple proprietary and open file formats within the browser, making it easy for patients and physicians alike to access vital medical records and test results.



### Multi-Level Security

Configurable user permissions and 256-bit AES encryption ensure that vital PII remains safe and secure within the application environment.



### Annotation

Markup tools like text comments, highlights, strikethroughs, and arrows help to facilitate collaboration and interoperability.



### Redaction

Manually or programmatically remove PII and other sensitive information from documents to ensure compliance and privacy.



### File Conversion

Quickly convert files into dozens of different formats to streamline file management and ensure accessibility within EHR systems.



## FORMSUITE

The average medical practice gathers quite a lot of data. Apart from physician diagnoses, medical images, and lab test results, they also need to gather information about patients throughout the care process. In the beginning of the engagement, this could be intake forms that provide baseline details about a patient, but later on might consist of things like billing records and insurance information. Being able to gather and process this information quickly is essential to keeping workflows in motion.

Accusoft's [FormSuite](#) SDK can be integrated into an EHR system to streamline and automate the data capture process for structured forms. Once configured to identify and align forms based on a template library, it can route submitted forms to the proper destination, which helps to keep patient files neatly organized. This is especially helpful for managing online forms that are passed along digitally, but still need to be processed and placed in the appropriate location. Thanks to its [intelligent character recognition \(ICR\)](#) engine, FormSuite can quickly extract responses from patient intake forms submitted during in-office visits to free up healthcare staff from the burden of manual data entry.

For EHR applications that incorporate robotic process automation, forms recognition, processing, and extraction can gather the data these systems need to populate fields within databases for easy access and reference. By [automating data capture](#) and data entry, developers can provide a framework that allows practices to scale more efficiently. It also improves records accuracy, which helps patients make better overall decisions regarding their medical care.

**[Download a free trial of FormSuite to see how forms processing can enhance your EHR application's data capture capabilities.](#)**

## FORMSUITE BENEFITS



### Automated Form Recognition

Quickly identify and match scanned forms to predefined templates for more efficient routing and document management.



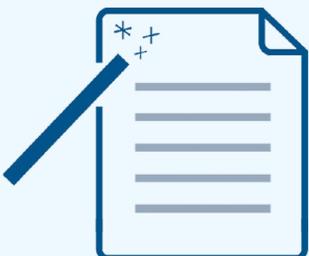
### Zonal OCR and ICR Data Capture

Extract machine printed or hand printed text from forms for faster, more accurate data collection.



### Optical Mark Recognition (OMR)

Detect bubble fields and checkboxes as well as signatures to streamline data capture and forms processing.



### Form Enhancement

Clean up scanned form images to improve recognition and increase accuracy during processing.



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## IMAGEGEAR MEDICAL

While EHR applications are frequently judged by the user experience they provide, it's important to make sure their backend processing capabilities are up to the challenges posed by today's healthcare industry. That means being able to handle a dizzying array of file types, including the high-resolution medical images that often create problems due to their size and complexity.

Accusoft's [ImageGear Medical](#) SDK allows developers to integrate powerful image and document processing capabilities into their applications. In addition to being able to convert dozens of file formats, it also provides full support of [DICOM files](#). Most EHR systems lack the ability to open and read these files, which can make it difficult to share image data from X-Ray and MRI scans with patients or other providers. In many instances, practices end up converting and compressing DICOM files along the way, which can seriously erode the image fidelity if not done properly.

Developers can use ImageGear Medical to build a dedicated DICOM viewing solution within their EHR applications to ensure that image data remains accurate for the best possible diagnosis. They can also remove header information from these files if they need to protect privacy. When DICOM files do need to be compressed or converted, ImageGear Medical's lossless compression technology ensures that they will maintain as much data and resolution as possible during the process.

In addition to these features, ImageGear Medical can also quickly convert document images into searchable files thanks to its full-page optical character recognition (OCR). Practices looking to digitize existing physical records can pair the OCR capabilities with image cleanup to ensure that uploaded records are both readable and easily searchable.

**Learn how ImageGear Medical can transform your EHR application by [downloading a free trial](#).**

## IMAGEGEAR MEDICAL BENEFITS



### DICOM Support

Create and view DICOM files directly within an EHR application, as well as manage header information to protect patient privacy.



### Conversion

Easily convert medical images from one format to another, with support for dozens of commonly used formats (including DICOM).



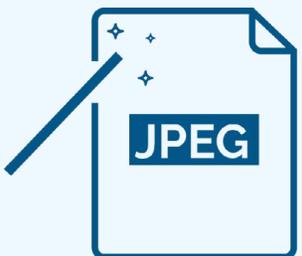
### Lossless Compression

Retain image fidelity for high-resolution medical scans during the compression process.



### Full Page OCR

Extract text from document images to create searchable PDF files for easier reference and sharing.



### Image Processing

Advanced filtering and editing tools help to enhance images for improved evaluation and diagnosis.



## BARCODE XPRESS

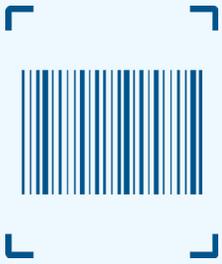
Medical barcoding has made it much easier for healthcare practices to track critical information like medication dosages, medical devices, and vaccinations. Barcodes have also proven themselves useful on the administrative side in terms of document and records management. They are one of the most effective means of minimizing human error, as scanning a barcode can quickly verify information electronically in an instant and even provide guidance to healthcare professionals. As a mature, reliable, and inexpensive technology, barcodes are increasingly being incorporated into EHR applications as developers look for ways to streamline practice management and reduce costly mistakes.

Accusoft's [Barcode Xpress](#) is a multi-language SDK engine that can read and write more than 30 unique barcode types. Optimized to accurately locate and decode multiple barcodes at up to 1,000 pages per minute, it can easily read skewed or poorly printed barcodes that other SDKs struggle to detect. A variety of built-in image processing tools and predictive algorithms help Barcode Xpress to automatically handle low resolution, incomplete, and damaged barcode images without having to send the image to another application for preprocessing.

Integrating Barcode Xpress into an EHR system allows developers to quickly create and assign barcodes for different types of [medical records and documents](#). Codes can also be assigned, printed, and affixed to medical equipment and medication to help better manage inventory and [document usage history](#). This is especially helpful for healthcare organizations that administer prescription medication, since they must comply with guidelines laid down by the Barcode Medication Administration (BCMA).

**See how Barcode Xpress can enhance your EHR application by downloading a free trial.**

## BARCODE XPRESS BENEFITS



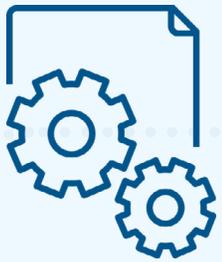
### Extensive Barcode Support

Read and write over 30 different barcode types, including 2D barcodes.



### Fast Processing

Detect and decode multiple barcodes on a document at up to 1000 pages per minute.



### Repair Tools

Read broken, damaged, and skewed barcodes automatically without requiring any external support.



### High Accuracy

Report confidence values for detected barcodes to ensure accuracy for healthcare applications.

## REVOLUTIONIZE YOUR EHR SOFTWARE WITH ACCUSOFT

The next generation of EHR applications will continue to push toward the promise of interoperability and the overall improvement of healthcare outcomes. With the right software integrations in place, they can empower both patients and physicians to improve communication, transparency, and collaboration without compromising privacy or constraining choice.

Accusoft's versatile [SDK and API solutions](#) have already delivered multiple benefits to healthcare application developers looking to integrate powerful viewing, image processing, and document management capabilities into their applications. For three decades, we've been [pushing the boundaries of innovation](#) when it comes to imaging technology and working closely with the medical industry to help them get the most out of their products. To learn more about how we're helping to drive innovation in EHR software, [talk to one of our solutions experts](#) today. features they need to create the next generation of EHR applications.



[www.accusoft.com](http://www.accusoft.com)

