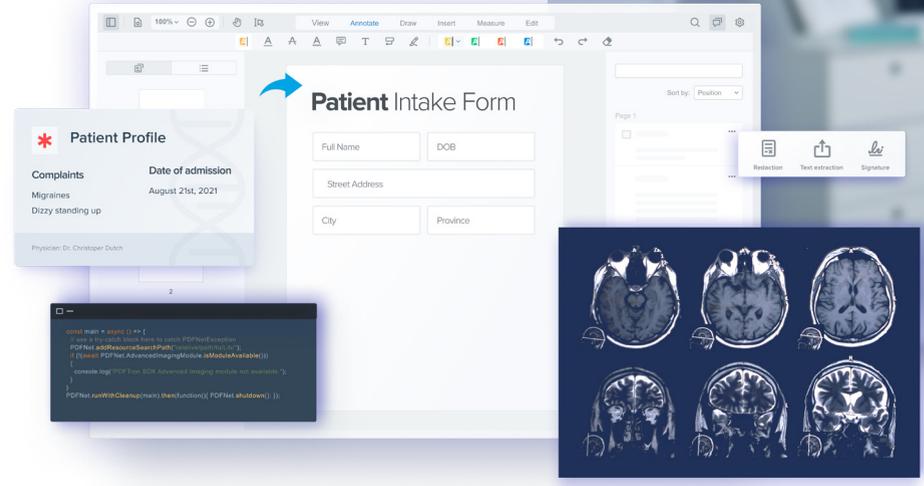




Data Utilization, Productivity, and Compliance

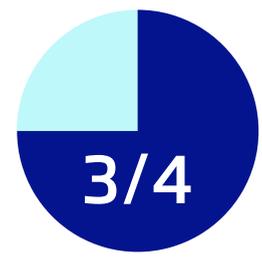
Simplify Operations and Improve Care Outcomes with
Better Document Processing Technology



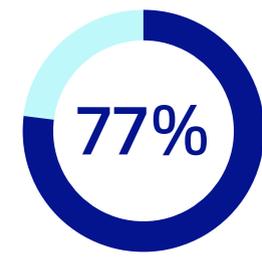
Healing Your Document Workflows

Documents including forms, imaging, and records are involved in all healthcare interactions, but the workflows that process them can seem archaic. A document SDK (Software Development Kit) is a powerful document processing tool that enables healthcare professionals to save time and resources through automated form generation, helping to reduce manual errors in paperwork, enhance patient services, and maintain data privacy.

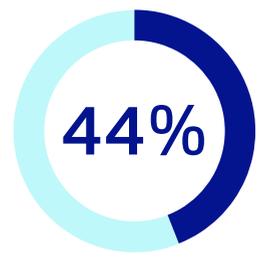
According to a recent study of healthcare professionals published by the American Medical Informatics Association,



Nearly **three-quarters** of healthcare professionals say the time or effort needed to complete clinical documentation hampers patient care.



Documentation tasks follow healthcare workers home too. **More than 77%** of respondents reported finishing work later than desired or working after hours due to excessive documentation.



More than 44% disagreed that it was easy to document patient care in the EHR and greater than 66% of respondents said they had not seen a recent decrease in the time or effort needed to complete documentation tasks.

With these unsurprising reports, let's take a look at how innovative document processing technology can help heal these Healthcare document processing challenges.

The Main Document Processing Challenges In The Healthcare Sector

Disruption in patient care is rising, driven by demands for affordability and personalization. However, varied IT approaches and tech adoption across healthcare teams introduce complex challenges with interoperability issues, manual data entry, and internal resistance to new technologies. These factors impact effective data utilization, productivity, and compliance, complicating alignment with regulatory requirements and delaying cost savings associated with having a more streamlined IT infrastructure.

Based on healthcare companies who use Apyrse, major challenges include:

Complex Workflows

Accessing and extracting data from systems used for patient care and compliance reporting is difficult for cross-functional stakeholders: the lack of interoperability between disparate/ antiquated systems makes it difficult to structure and leverage data in the complex workflows between payers, providers, patients, and various entities involved in a healthcare transaction.

Dynamic Compliance Regulations

Business entities can vary greatly in the way they govern data: regulatory requirements and timelines are often misaligned across programs and subject to frequent updates which require significant investments from clinicians to ensure HIPAA, GDPR, Accessible Canada Act, and other global compliance standards are met for data security, privacy, and patient confidentiality are upheld.

Digital Transformation Delays

Many healthcare organizations rely on an outdated IT infrastructure and might not see a clear return on migrating to a more modern solution: With stringent compliance requirements around proper data management and storage, it's risky, costly, and discouraging to migrate such a large volume of sensitive information to modern solutions. Improvement efforts are usually directed towards areas of patient care that are more visibly apparent.

Administrative Burden

Manual data entry can be costly and error-prone: lack of an automated, standardized approach to patient onboarding, case management, and home healthcare intake can lead to time-consuming and error-prone information collection, higher insurance costs, and delayed service to the patient.

How Apyrse Can Help:

Example Use Cases

04

The following examples showcase effective uses of Apyrse document processing technology to update and improve document workflows in a variety of healthcare situations.

Effective document processing functionality in healthcare applications allows users to track compliance, uphold company standards, and increase efficiency. These streamlined workflows enable ease of collaboration, personalized & coordinated care, and time-bound decision-making.

Audit Logs

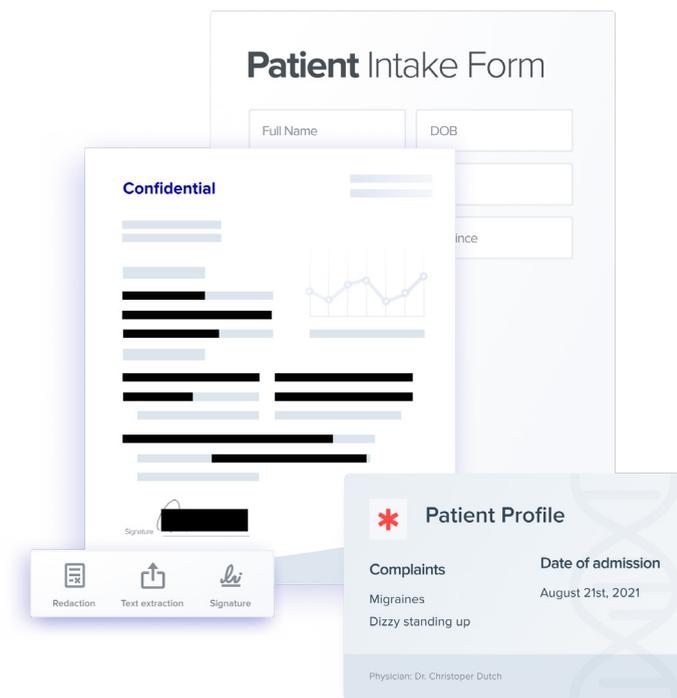
WebViewr, the Apyrse Web SDK, can be used for web-based tools surgeons use to log and track surgical cases. Surgeons can upload patient files as PDFs, redact personal patient information, and allow others to view and comment on the logs by adding annotations.

WebViewr can be leveraged here to enable viewing, annotating, and redacting of PDF documents via the browser.

Coordinated Care Workflows

A collaboration use case in the healthcare sector could involve a communication application specifically designed for medical professionals and accessible on mobile devices. Within this application, users, such as nurses and doctors, can exchange messages, record dictations, share audio and video in real-time, conduct private voice calls, and share images and reports. By incorporating the Apyrse Web SDK into the application, users are enabled to view and annotate PDF and image files, as well as convert Microsoft Office documents to PDF format directly within a browser. This integration streamlines document-focused workflows by removing the necessity to exit the application or utilize a workstation to accomplish these tasks or to view documents.

Because WebViewr is a browser-based experience, it can be used for applications that include a mobile and web experience, streamlining workflows even further as users move from workstations to mobile and back.



How Apryse Can Help:

Example Use Cases

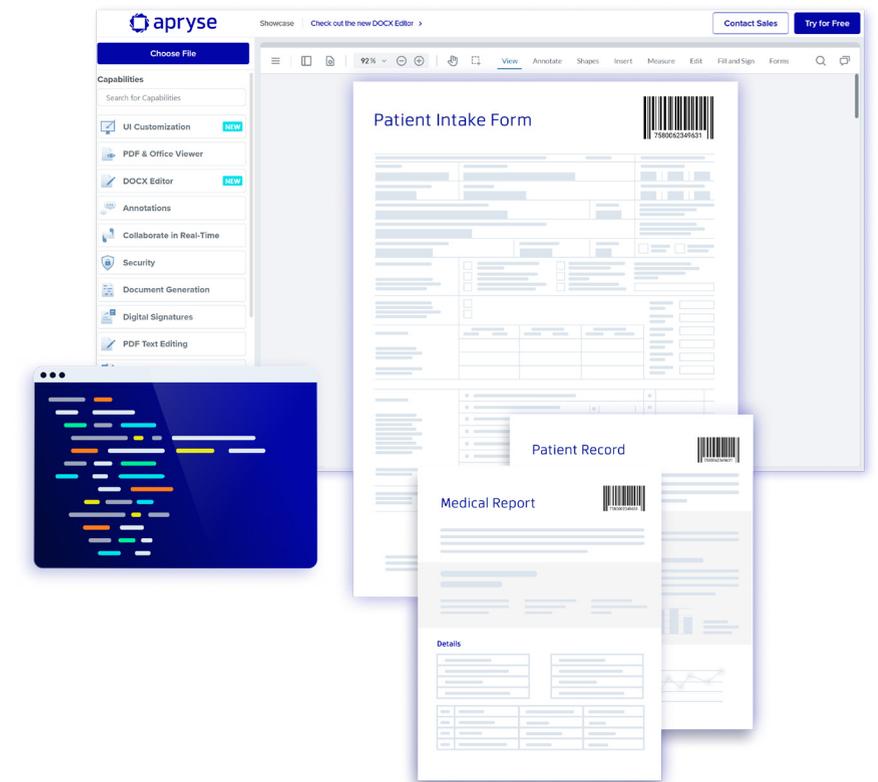
Patient care files contain sensitive information, so it is essential to implement access-controlled editing, redaction, and encryption when transmitting this data between systems or providers to ensure compliance.

Areas such as consent forms, prescription management, medical reporting, legal documents, and remote patient care all require secure digital signatures. Without a reliable solution for managing these signatures, telehealth can encounter significant obstacles.

Telehealth Solutions

With WebViewer, web and mobile telehealth applications can share patient education assets, such as PDFs and videos to inform patients about their upcoming treatment or procedure. A mobile app can allow medical providers to administer consultations where patients watch videos and take quizzes, for example. Patients and doctors can fill in and sign PDF consent forms. All documentation, including patient education, confirmation of comprehension, counseling, and signed consent forms, can be securely stored on a HIPAA-compliant cloud server.

Apryse WebViewer supports telehealth app solutions with PDF viewing, form filling, annotations (for e-signatures), and merging of annotations into PDFs.



How Apyrse Can Help:

Example Use Cases

Medical imaging creates large files that contain sensitive patient information, and they need to be transmitted between stakeholders for review and record-keeping. File conversion and viewing capabilities enable better telehealth consultations and faster patient care, without sacrificing regulatory compliance.

Medical Records must be managed and organized to meet standard requirements and deliver care. For example, Apyrse SDKs can be used to effectively organize and manage digital records.

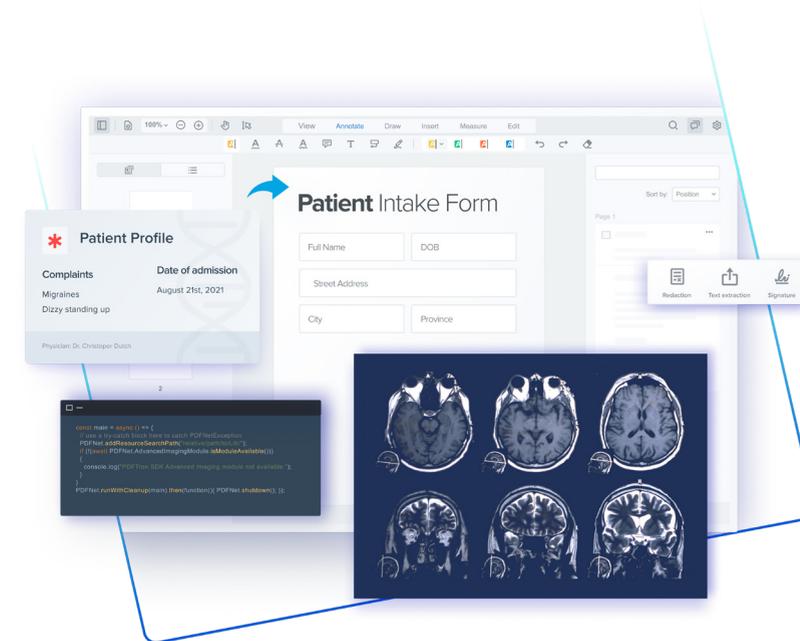
Medical Images

Apyrse Web and Server SDKs can be used to support applications that share, store and transmit medical imaging files, as well as reports, including features such as annotation, permissions control, and conversion.

PDF Manipulation & Storage

Document management systems are used by healthcare professionals to organize medical records efficiently. For example, users may need to summarize, reorganize, and compile large PDF documents easily. Key features for these apps include uploading files, creating folder directories, tagging pages for future reference, and compiling documents into cleanly bookmarked PDFs for easy navigation.

The Apyrse Web SDK can be integrated to enable features such as PDF viewing, annotation, digital signature, and manipulation, including breaking, merging, reordering PDFs, applying OCR for text extraction, and Bates Stamping.



Key Document Processing SDK Features for Healthcare Workflows



Digital Signatures

Secure, automated, legally binding electronic document signing.



Medical Image Management

Tools for processing medical images, web viewers, 3D rendering, and annotation controls.



Access Controls

User permissions, identification, timestamps, IP addresses, encryption, and restrictions on downloading, printing, or text selection.



Compression Algorithms

Efficient file size reduction for optimal storage and security.



File Conversion

Convert 30+ formats to ISO-compliant PDF/A, supporting high-volume batch conversions.



OCR Technology

Text extraction, IDP algorithms for document analysis, data structuring, and secure redaction.



Digital Health Forms

Easy creation and filling for intake, consent, and medical purposes; automatic form filling with customer data.



Version Control Tools

Maintain revision history and compare documents using semantic text comparison.



Browser-Enabled PDF Viewing

Convenient, intuitive experience without additional software.



Accessibility Compliance

WebViewer is designed to be compliant out-of-the-box with WCAG 2.1 Level AA, thereby complying with most major government regulations including in the USA, UK, Canada and the EU.

Why Apryse

08

Selecting the right SDK for your project requires more than functionality. You need a partner that can support your project into the future, with the support resources, R&D investment, and technology to make your healthcare solution a success. Why choose Apryse?



Responsive enterprise-grade support team



Comprehensive documentation enables users to make the most of SDK capabilities



Ease of integration with existing systems and workflows



Secure-by-design cross-platform APIs reduce dependencies and security risks



Robustness and accuracy of data extraction and automation capabilities



Performance and reliability in processing various document types and formats



Solutions for handling diverse data sources and formats for any use case



Scalability to accommodate growing volumes of documents and users



The most complete portfolio of document processing SDKs on the market

Case Study



apryse |



Recover Health is a Medicare-certified and industry-leading home health agency.

Its 1,500 employees—including nurses, therapists, and other highly trained professionals—bring a full range of health care services to the doorsteps of its clients across six Midwestern US states, including those managing chronic illness or disease, recovering from hospitalization or surgery, or dealing with specialized needs.

When COVID-19 swept the world -, the company's previous document solution stopped working as expected, presenting the company's frontline staff with having to default to pen and paper. Not only was paper inefficient; amidst a pandemic, it was also less safe.

With Apryse, Recover Health was able to roll out a uniquely branded form filling app for iOS and Android in less than a month and later, add further features and platforms to continually enhance the user experience.



Customer

Case Study

Recover Health

Business Challenges

- ⚠ Recover Health's previous remote document and form filling solution failed at a critical juncture
- ⚠ Having to default to paper would counteract the company's Emergency Preparedness Plan based on strict infection control standards and CDC guidelines
- ⚠ It would also impact the company's ability to scale its services safely at a moment of escalating demand for them

Results with Apryse

- ★ Created a branded form filling app in less than 25 days to eliminate paper forms and paper-related COVID-19 exposure risks
- ★ Eliminated high costs and inefficiencies of paper, including turnover times on admissions forms reduced from 48 hours with paper to seconds digitally
- ★ Streamlined cross-platform development with Xamarin, enabling fast roll out of new features on Android and iOS platforms so users could BYOD to work
- ★ Consolidated features into a single vendor providing long-term support for additional document features, file formats, and platforms, including Android, iOS, and the web
- ★ Continued success measured in high levels of user satisfaction based on direct feedback from nurses to Recover Health CIO John Fraser and his team

[Check out the full story](#)

Improve Your

Document Processing Capabilities

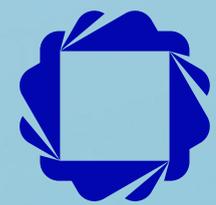


Start Your Free Trial Today

Visit the Apyrse website for a free trial and to learn how our SDKs are changing the way healthcare professionals generate, process, and use documents.

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