

Healthcare Company Achieved a 7.5% Boost in Profits with a Modernized AS400 Patient Record System



See how Damco transformed a legacy AS400 system to pave the way for improved ROI and cost savings

Client Profile

The client is a Texas-based healthcare company that provides cutting-edge medical devices and skincare products to the plastic surgery, dermatology, and aesthetic industry. Their products are designed to enhance surgical experience and boost patient outcomes.

The Challenge

Need to modernize AS400-based electronic patient record system

The company's existing electronic patient record system was based on AS400 technology. Built on the traditional green screens, the AS400 legacy system involved extensive usage of function keys and terminal emulators, leading to sub-par user experiences. Needless to say, the system made the training of sales representatives difficult and time-consuming. Additionally, the lack of scalability and increasing difficulty in integration with other software presented another set of challenges.

The client recognized the need for a powerful graphical user interface standard in modern-day applications. They wanted to modernize the existing electronic patient records system while retaining its functionalities and business logic.



Subpar user experience
due to green screen-
based interface



AS400 legacy systems
posed challenges in
training sales agents



The existing system couldn't
be easily integrated with
other software

The Solution

Damco worked in close collaboration with the client to comprehend their software requirements and, accordingly, recommended a robust, flexible, and scalable solution to address the gap. Our team leveraged the latest version of IBM i to develop and deploy a fully integrated, platform-independent, turnkey solution for electronic patient record storage.

Prominent features of the modernized AS400 solution:

Modernized UI

The user interface of the patient record system was rebuilt using modern front-end technologies with a contemporary theme and style guide. No disruption to transcription and document management activities.

Enhanced Functionalities

Business-critical functionalities such as process workflow and document management were re-implemented.

Microservices Architecture

The clinics and hospital applications were re-architected for the cloud using microservices.

Offline Availability

The applications could work in both online and offline modes, allowing the users to work during planned or unplanned downtime by server or network.

Security and Compliance

Triple DES encryption was applied to ensure data security. In addition, compliance with HIPPA was ensured to safeguard sensitive patient information.

Value Delivered

Improved ROI, enhanced transcriptionist productivity, and significant cost savings

- Following AS400 modernization, the client was able to grow its profits by around 7.5%
- The client realized an ROI of US\$ 2.5 million within 7 months of AS400 application modernization
- Rearchitected applications seamlessly handled high-load traffic due to a flexible & robust architecture
- Offshore engagement model chosen by the client led to over 57% of cost savings
- Transcriptionist productivity jumped by around 10% due to internal messaging
- Remote transcriptionists provided substantial telephony savings over dual telephone lines



Need assistance modernizing your AS400 legacy systems?

Talk to Our AS400 Expert

About Damco

Damco Solutions is a trusted technology and digital transformation partner for businesses around the globe. We engineer software products, create new digital experiences, modernize applications and automate business processes for greater agility and business growth. With 27+ years of leadership in software engineering and digital solutions, our mission has remain constant - complete client success.

Contact us for more information on Damco's Offerings.

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