

# Bahía Software Provides Large Hospital Network Flexible and Cost-Effective Patient Data Exchange

Bahía Software provides interoperability services to a large European hospital network specializing in specialty care, such as elective care, plastic surgery, and sports injury care. The network upholds high standards to ensure expedient and personalized specialty care. This commitment to quality care attracts patients throughout Spain and the rest of Europe.

## Quality patient data exchange is key to quality care

A good portion of staying committed to quality care depends on efficient and cost-effective patient data exchange. Bahía Software works with the hospital network's IT team to ensure data is readily available throughout their system, no matter when and how it's collected. This includes making the data more uniform in the hospital system's EHR. Mirth Connect plays a significant role in managing patient data, giving providers details they need to administer quality care.

"We leveraged Mirth Connect to set up a four-node cluster where more than 100 applications are connected and 1,000 channels are deployed in a production environment that serves more than 70 hospitals and specialty clinics throughout the customer system," said Óscar González, software analyst at Bahía Software.



## CLIENT PROFILE

### Bahía Software

**Location:** A Coruña, Spain

**Background:** Bahía Software provides interoperability services and develops software products to support surgery, oncology, imaging, and ophthalmology. The company employs more than 270 people and has been in business for more than 25 years.

### NEXTGEN HEALTHCARE SOLUTION

- Mirth® Connect *by NextGen Healthcare* (Platinum License)

## HIGHLIGHTS



**Set up** a four-node cluster where more than 100 applications are connected and 1,000 channels are deployed



**Meets** patient data exchange needs for more than 70 hospitals and specialty clinics



**Leverages** a user-friendly integration engine to perform quick turnarounds from development to production



**Supports** data exchange between hospitals through disparate systems

When Bahía Software started working with the hospital group, they faced many data silos stemming from the group's rapid growth. Several hospitals were acquired quickly; each one used a different EHR system.

"If a patient went to one hospital for a specific test, the results would not be visible to providers at another hospital," said José Ramón, business director at Bahía Software. "To eliminate this issue, a strategic plan is underway for hospitals to use the same EHR system and centralize integrations with the help of Mirth Connect."

This move helped patients who expected a higher level of service from a private hospital group to quickly access their data anytime and anywhere through a patient portal. Whether the patient receives treatment in Madrid or on the Balearic Islands, they have their health information at their fingertips.

## **Cost savings—one platform for all admissions data**

Bahía Software also developed a single channel to capture the entire hospital group's admissions data. "This saves costs by avoiding maintenance for different channels performing the same task," said Ramón.

Mirth Connect is vendor-agnostic and integrates data based on standard healthcare formats and protocols, allowing the customer to integrate disparate systems immediately as they acquire new hospitals. No delays in patient care are experienced as data exchange continues to flow seamlessly. In terms of scalability, Mirth Connect can scale horizontally and support unlimited channels/interfaces. A four-node cluster also enables additional nodes when needed.

## **A user-friendly integration engine**

"Mirth Connect makes it easier to implement channels, receive admission-discharge-transfer (ADT) data, as well as transform and send data to the EHR system," said Antonio Santiso, project manager at Bahía Software.

When the hospital network wants to access information from one department application, such as anatomy pathology into their EHR, Bahía Software works with the anatomy pathology's system team to define the data workflow, as well as analyze and develop an integration that supports Fast Healthcare Interoperability Resources (FHIR) or Health Level 7 (HL7) standards.

"The EHR deployment team develops the input-output process. Our team develops the channel that transforms or sends messages from one department to another," said González. "We closely work with the other teams to perform tests for every use case involving clinical documentation."

## **Unnoticeable switch between old and new systems**

Homogenizing EHR data through seamless integration is one of the hospital network's strategic goals. While it takes time to move over to a shared system where all hospitals are on a unified system, providers still need to be able to exchange patient data. Mirth Connect can support data exchange between hospitals, whether they have the same EHR or not.

"When the EHR deployment team implements the new system in a hospital, Bahía Software handles the change between the new and old systems," said Santiso. "With Mirth Connect, we can handle these situations to the point that providers do not notice any change when making the switch."

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**Antonio Santiso**  
Project Manager  
Bahía Software

## Ease of use and flexibility help ensure integration development

“The channels and features within Mirth Connect allow you to build integrations quickly. If I’m asked on Monday to integrate a new system into the hospital network, it will be installed and ready for testing in a week,” said González.

With Mirth Connect’s agnostic capabilities, the Bahía Software team gains the flexibility to merge the language from one system to another. This helps maintain a standard interface and prevent software blocking. If the team does not like how one department system works, this application is replaced with one that uses the same standard interface.

“For example, you may have a laboratory information system with a private integration with the EHR. If and when a system like this breaks down, it can be difficult to remove. It might take as long as a month to receive a new private integration from another company,” said Ramón. “However, when you have Mirth Connect, you can just plug and play. The flexible nature of Mirth Connect helps us save costs and time.”

Enabling different systems to speak to each other is particularly helpful when the hospital network acquires another hospital that’s not on the same EHR—patient data exchange can continue without disruption during the hospital’s transition.

## Mobile application integration

Mirth Connect not only supports patient data exchange among different hospital departments. The integration engine allows health information to be seen by patients via a mobile application.

“When a patient enters through the mobile application to access lab results, the application accesses our EHR through Mirth Connect to get the information,” said Ramón. “Mirth Connect plays an important role for this system, along with approximately 90% of our other systems.”

## Speedy developments

Bahía Software found the Java-based Mirth Connect easy to learn, cost-effective, and quick to deploy. The integration engine also enables them to do complex developments with basic elements and get the work done quickly without major disruptions in health data exchange.

“It’s a simplified engine, but you can do complex tasks with it,” said González.

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**Óscar González**  
Software Analyst  
Bahía Software

# HOW CAN WE HELP?

Partner with us at **855-510-6398** or **results@nextgen.com**