

Broward Health Enhances Patient Care Collaboration with Mach7 Enterprise Imaging Platform

To accommodate a broad user community accessing imaging information captured and viewed across a network of diverse physical devices, Broward Health looked for the “space station” of imaging platforms. The team selected the most flexible, modular and neutral solution on the market: Mach7 Enterprise Imaging Platform.

About Broward Health

Providing service for more than 75 years, Broward Health encompasses more than 50 healthcare facilities in Broward County, Florida. Its flagship hospital, Broward Health Medical Center, is ranked as one of the best regional hospitals in cardiology, heart surgery, and nephrology by U.S. News & World Report, 2014-2015.

The Challenge

As one of the nation’s largest IDNs, collaboration across a growing network was central to Broward Health’s patient care strategy. Their legacy PACS systems weren’t keeping pace with the organization’s strategy to build a faster and more reliable environment for physician collaboration. Broward Health wanted a flexible and scalable solution that would tightly integrate with their EHR and allow universal viewing of patient images. The existing PACS environment would not support those functions and was bringing “exhausting complexity” to their environment.

The new solution had to be modular, flexible, and scalable, deliver clear ROI, and complement Broward Health’s patient data management strategy.

Goals

- » **Improve enterprise-wide, multi-specialty collaboration**
- » **Reduce access time and increase availability of patient imaging files regardless of capture or storage location**
- » **Streamline image viewing requirements**
- » **Control mounting imaging storage and management costs**
- » **Enforce regulatory compliance for HIPAA/HITECH**
- » **Become PACS agnostic to improve workflow enterprise-wide**
- » **Ensure images were stored in truly vendor neutral archive**



We needed an enterprise imaging system built like a space station; modular, with interchangeable components that are flexible and scalable. We have that system with true vendor neutrality and a great partnership with Mach7.

– Boris Kalitenko, Sr. PACS Administrator, Broward Health

Action Plan

- » Assess Broward Health’s ecosystem including legacy PACS and RIS systems, specialty viewers and off-site storage. Consolidate disparate storage while increasing access with a focus on ROI.
- » Create a unified view of patient image files (DICOM and non-DICOM) across legacy PACS and integrate with Broward Health’s electronic health record (EHR). Enable image viewing across all platforms (specialty diagnostic, universal clinical, zero-footprint, etc.).
- » Define an ILM and data redundancy strategy aligned with HIPAA/HITECH regulations and Broward Health’s policies.
- » Deploy tools allowing IT team to maintain data integrity and security more efficiently and effectively, reducing the cost of data storage and management.
- » Provide universal access, sharing, and intelligent routing of patient image data regardless of its location, originating modality, or viewing requirements.

The Solution

After a lengthy evaluation period of PACS and VNA-based enterprise imaging solutions, Broward Health selected Mach7 Enterprise Imaging Platform.

“Our collaborative partnership with Mach7 gives Broward Health a comprehensive and robust patient-centered solution that supports broad-scale clinical and business requirements. The vendor neutral archive (VNA) component of the platform helps us build the foundation we need to integrate, access, and share imaging studies across all of our facilities.”

James Orr
IT Manager
Broward Health

Results

Measured ROI and storage savings:

Image storage can now be consolidated across the enterprise. All image storage needs can be centralized regardless of modality or location of image acquisition.

“The VNA solution has been a cost-effective solution for Broward Health. We’ve done a study on the cost of storing DICOM and non-DICOM images, and the value proposition is there. Mach7 Enterprise Imaging Platform gives us the ability to control and enforce compliance, HIPAA regulations, and store all the domains in one centralized location. We have better control of the data at a lower cost and high availability to leverage solutions that aren’t proprietary.”

Ronaldo Möntmann
VP of Information Technology
Broward Health

Access to a complete patient record:

Centralized, consistent and rapid access to the complete care record improves collaboration and connects patients with physicians. The system maintains and provides the ability to read data in its native format; data saved as PDFs are read as PDFs and JPGs as JPGs.

“VNA is a very delicate term. The system has to be truly neutral. The physician needs to see the images in their native format, no reformatting, no wrapping or adding text. Images must be stored so that if anything changes, the images are intact

and they can be returned to the imaging device for review if needed. This is a critical attribute of the Mach7 solution.”

Boris Kalitenko
Sr. PACS Administrator
Broward Health

Positive impacts on clinician and patient well-being are recognized:

Broward Health is also able to integrate best-of-breed viewers with the Mach7 platform allowing clinicians to use their viewer of choice and the one that best suits the clinical needs of the patient.

“Considering viewers and how you access patient images is critical. Not only can the right system enhance your ability to provide the highest level of care at minimal cost, but it can also augment how you impact patient well-being and quality of life.”

Boris Kalitenko
Sr. PACS Administrator
Broward Health

Real-time visibility into system health and synergy with Mach7 support team:

Broward Health enjoys the same visibility into system health as the Mach7 support team.

“There is an unsurpassed level of trust and engagement with the Mach7 support team. We have a dashboard that gives a real-time view of the health of our system. The support team has the same view and if there is ever a hiccup, the Mach7 team takes care of it right away.”

Boris Kalitenko
Sr. PACS Administrator
Broward Health

About Mach7 Technologies™

Mach7 Technologies is a global provider of enterprise image management solutions that allow healthcare enterprises to easily identify, connect and share diagnostic image and patient care intelligence where and when it is needed. Mach7’s innovative communication and workflow technology delivers complete image management including rapid record identification, integration, synchronization and routing, advanced clinical viewing and optimized vendor-neutral archiving across the enterprise. Healthcare institutions around the world use Mach7 solutions for archiving, clinical productivity improvement, IT cost savings, health information exchange, meaningful use compliance, and improved patient data communication.