

Case study

Third Eye Teleradiology - Carmel, CA

Tailored teleradiology solutions to meet the outsourcing needs of medical facilities



aycan provides a total workflow integration for Third Eye Teleradiology to help keep costs down

BACKGROUND

Third Eye Teleradiology (TET), located in Carmel California, provides fellowship trained academic radiologists who deliver subspecialty specific diagnostic imaging reports and consultative services. They provide a cost effective way to add radiologists to the staff of existing Medical Facilities by outsourcing the interpretation of digital imaging (CT, MRI, CR/DR, US, Mammography, NM and PET).

Dr. Tyler Neitlich, CEO, explains that the radiology group's fellowship trained radiologists have had experience in leadership roles at highly acclaimed institutions including Yale and Mount Sinai Medical Center. This differentiation allows TET to provide more than just the standard Radiology services extending to services such as virtual colonoscopy, CT enterography, CT urography, 3D orthopedic planning, CT angiography, and MR angiography.

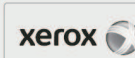
TET's radiologists had worked with multiple PACS vendors in the past but were not convinced any of them could fit their specific workflow needs. TET required reading for multiple hospitals and imaging centers, with disparate systems, which brings issues of both connectivity and workflow. It was important to TET to find a solution that was modular, scalable and, most important, to seamlessly integrate with other solutions. Already familiar with the award winning Open Source project OsiriX

and aycan Medical System's work with it, the group reached out to aycan for support. "The first thing aycan did was try to understand my workflow needs and by doing so they understood the complexities that needed to be addressed."

CHALLENGE

The Third Eye Teleradiology group needed an integrated PACS/RIS solution that could be used at both their main office and as a Teleradiology system for partner radiologists located around the country. Of course with reimbursement payments falling and the current state of the economy it was also important to find a solution that was both cost effective as well as powerful. To help keep costs down for TET's customers the solution would also have to be automated and technologically advanced allowing efficient reads and turn around times.

In addition to a cost effective PACS/RIS solution, TET also needed a vendor with a strong service approach. Without their own dedicated IT department to support them it was imperative to find a vendor who would be able to not only efficiently conduct the first install but be able to help them with future implementations and integration as they bring on new hospitals and imaging centers. After speaking to the team at aycan and a number of aycan's current customers, the management team at TET felt as though aycan could more than meet their needs.



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SOLUTION

As with all their solutions, aycan tailored one to meet TET's specific needs. Along with aycan store and aycan's workstation OsiriX PRO, aycan recommended a RIS and Dictation software from MedQ, a Dallas TX based company, whose software is fully integrated with the aycan solutions. The fact that the integration was already complete allowed TET to realize savings immediately. After thorough preparation the aycan service team went onsite to install the aycan store DICOM archive and aycan workstation OsiriX PRO.

aycan store is a scalable, high performance archiving and distribution system which can be accessed on-site or off-site through aycan's secure data center.

Designed by radiologists for radiologists, OsiriX PRO is a DICOM viewer, ideal for reviewing and post-processing of multimodality and multidimensional images. With very fast image upload times, OsiriX PRO shortens the "waiting time" for radiologists and its plug-in architecture allows for easy expansion of capabilities.

With the aycan / MedQ solution, Third Eye's Teleradiology practice can efficiently read from a dynamic unified worklist without worrying about the number of sending sites or modalities. The aycan and MedQ teams "were only onsite for a few days and efficiently installed and trained our staff on the system" explained Dr. Neitlich.

INTEGRATION

The PACS/RIS integration provided by the aycan and MedQ products is evident throughout the entire workflow. After aycan store receives images from multiple sites, MedQ displays a unified worklist.

The majority of the Radiologists workflow is based on this worklist, and by simply clicking on the patient it automatically opens the embedded Dictation and launches the appropriate images on aycan workstation OsiriX PRO. This allows the Radiologist to immediately start scrolling through images and dictating when ready. Once the report is dictated the Radiologist can review and sign the report as final. The report is then distributed to the appropriate referring physicians, insurance companies, and also converted to DICOM so it can be send back to the aycan store, DICOM archive. With the report redundantly stored on aycan store, anyone accessing the patient image data can also view the past reports as separate series.

RESULTS

According to Dr. Neitlich, one of the most important aspects of the aycan solution is the ability to call aycan's service team and "speak to a live person immediately," something aycan offers to all customers. When TET brings on additional customers they simply contact aycan, who work in parallel with MedQ, to make the required DICOM and HL7 integrations. aycan met TET's need for a powerful, integrated, cost effective PACS solution. TET can now offer hospital and imaging centers partner radiologists at minimum expense without the additional expense of malpractice, benefits, vacation or stock. With the aycan solution TET can also offer postprocessing techniques (3D, 4D, 5D) keeping the customers and referring physicians happy with fast, high tech results. The entire solution enables the TET practice to be more efficient while keeping costs down.

aycan Medical Systems is a leading provider of cost effective turn-key solutions and services for the medical imaging market. Designed to meet the growing challenges of the medical industry, other innovative solutions include: aycan xray-print, a leading DICOM paper print solution for radiological images, aycan workstation OsiriX PRO, an FDA cleared, 64-bit post-processing for everyone and aycan store, a scalable, high performance DICOM archiving and distribution system that can be tailored to meet customer specific needs.

For more information on aycan solutions, visit www.aycan.com or contact us at info@aycan.com

