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### Archiving Accomplished - InSite One Delivers a Superior Cath Lab Storage Solution

Less is more, says John Munday, RIS/PACS Administrator for Amerinet member Yavapai Regional Medical Center in Prescott, AZ – at least when it comes to digital cath lab storage. Less concern about obsolescence, cost, scalability, redundancy and HIPAA compliance is a significant benefit for any busy digital department, according to the experienced administrator. Recently, he managed the installation of a new digital cath lab management system and elected to outsource archiving to InSite One Inc.

“With our InSite One digital storage, I have significantly less worry about many important issues,” he said. “I spend fewer hours on day-to-day system management than I would if we had storage in-house. This frees up my time for other important responsibilities.” Munday also cites a host of additional advantages of InSite One’s Web-enabled on-site and off-site storage, from affordable pricing to sophisticated disaster recovery.



Yavapai Regional Medical Center

#### A Busy Community Hospital

A 135-bed community hospital, Yavapai has one cath lab angiography suite and a state-of-the-art radiology department that also services a busy out-patient imaging center. Currently, the hospital is in the process of opening a second cardiac cath lab. All cath lab procedures are performed on site under the direction of five physicians and a staff of 12. The department handles 1,500 patients and 1,000 cardiac cases annually.

Digital since 2000, Yavapai upgraded its cath lab system to stay in the forefront of advancing technologies. The department’s initial system had limited functionality and flexibility. It saved images in a proprietary storage format onto CD media. “Once the study was archived, that was that,” said Munday. “It could no longer be manipulated and we did not have the flexibility to change the format or move files on to other storage media.” Not surprisingly, Yavapai was extremely concerned about obsolescence and architecture when selecting storage for its new DICOM image management solution.

#### A Proven Success in Radiology

Yavapai examined a full range of archiving options and was already familiar with InSite One’s advanced digital long- and short-term archiving solution. InSite One had been successfully supporting the hospital’s sophisticated and busy radiology department for three years, keeping it cutting-edge and problem-free.

“In our multi-site, multi-modality radiology department, InSite One’s cost-effective and scalable digital storage proved to be the superior choice,” said Munday, pointing out that it had become the basis for a mini-PACS even before the department had a full-scale digital solution in place. As part of its comprehensive solution, InSite One had provided Yavapai with a Web-based viewer – InDex Web – along with local and remote archiving. Once stored to the archive, using the InSite One-supplied viewer, images could be called up from any location, across the hall or the globe, creating a radiology department without walls – even before a PACS was installed.

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### A Good Fit for Cardiology

“We bought the new cath system to support more sophisticated functionality and to make images available over the hospital network,” commented Karen Singleton, director of the cath lab angiography department. “With current and future costs a key consideration, we all had to work hard to make the upgrade happen.” Munday adds that InSite One played a key role in the project’s success.

Noting how the company’s pay-as-you-go, per-study pricing removes a major financial barrier, Munday adds that InSite One streamlines conversion to a digital environment by eliminating significant up-front capital costs. This was a big plus to Yavapai. Munday explains that InSite One provides a complete range of secure, reliable and cost-effective Web-based DICOM solutions that manage both short term on-site and long term off-site storage, including disaster recovery.

### Sophisticated On- and Off-Site Storage

Typically, InSite One will provide an installation without existing storage with a RAID- or SAN-based archive for the facility to hold a year’s worth of images, assuring ultra-fast access to current studies. Long-term and disaster recovery storage is provided by Spinning Disc in two off-site

redundant data centers in Connecticut and Arizona. As studies are archived on site, copies are also sent to long-term storage. InSite One’s architecture is truly open, easily handling DICOM-XA, the specialized format for cath cine images, as well as a complete range of other DICOM imaging modalities and even non-DICOM medical data. With an extremely simple transition, Yavapai expanded its existing archive to store cath lab images.

Customer service was outstanding, according to Munday. From the signing of the agreement until images were whirring over computer lines into secure storage, setup took less than two weeks.

“It’s a really nice product,” commented Singleton. “We don’t have to deal with jukeboxes or ever think about upgrading our storage technology. Every night at 10 p.m., the digital cath system seamlessly downloads all the day’s studies onto the InSite One archive – and that’s it.” She notes the digital cath system is shared by Dr. Bowers, an interventional radiologist, who is thrilled that he can now use a Web-based DICOM viewer to pull up his studies anywhere in the hospital. The department also plans to offer digital image access to physicians at home and other remote locations in the near future.

### Important Advantages – Pricing, Scalability, Support

Noting that Yavapai examined a full range of storage options, Munday says that outsourcing storage to InSite One offered distinct advantages.

First, pricing is a flat per-study fee and not based on the file size, offering significant benefits for large cine studies. Additionally, with the vendor providing an on-site archive holding years of studies, concerns about high up-front capital costs, scalability and obsolescence are eliminated. “As my volume grows, InSite One keeps an eye on it, adding additional hardware as needed,” commented Munday. InSite One’s per-study fee includes full HIPAA compliance as well as sophisticated redundant back-up protection and the expertise to have the images up and running within hours should a disaster occur. With the Amerinet member pricing, Yavapai realized even more cost savings.

Image retrieval from the on-site archive is an ultra-fast five to 10 seconds. Currently, the cath department is also sending EKG images to the archive and is planning to take full advantage of its open, flexible architecture by storing other non-DICOM images. It also plans to grant online image access to referring physicians. Another big plus is that InSite One is responsible for all the concerns of managing storage.

Committed to keeping pace with advancing technologies and to delivering the highest quality of patient care, Yavapai has been installing a range of new image acquisition equipment in radiology and will likely do so in the cath lab in the future. “When installing new equipment, the first question I always ask is whether it will connect to our archive,” said Munday. “I just call up InSite One and they test it on the fly. It’s never been a problem. These guys are good.”