

DAX DICOM Archive

Challenge

Today, digital technology has become an essential part of equipment in modern healthcare. Medical imaging in X-ray diagnostics was essentially the first area where digital technologies were applied. Over the past years many new areas like visual light video and ultrasound went digital.

Today's medical staff expects that the digitization of the hospitals infrastructure would lead to simplification and improved efficiency.

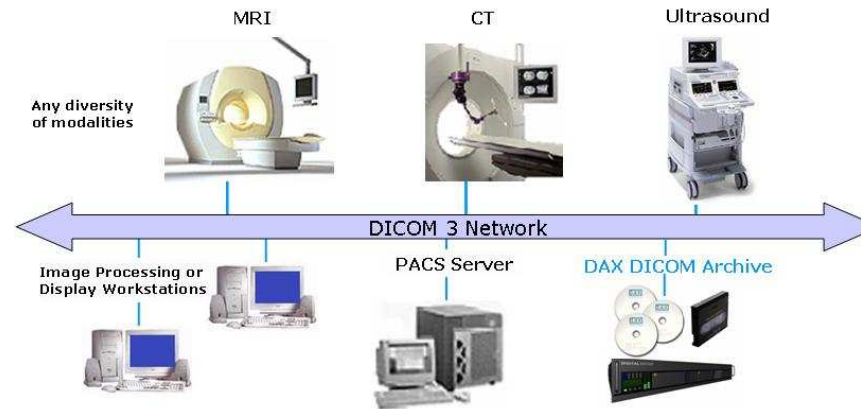
Patient studies need to be available always and from anywhere over the hospitals' network. No one can imagine a hospital deleting or losing patient studies due to human error or capacity limitations. Even if data is no longer immediately retrievable, it should still be archived.

Many hospitals today have a PACS in place, a primary central image archive.

However, there are also many cases where different types of local archival storage systems are required that can off-load diagnostic equipment while building departmental archives.

In addition to archival requirements, many departments have the need to export imaging data to portable media.

Solution



The DAX DICOM Archive is a fully scalable archive and can automatically acquire information and images from any number of image sources including image modalities, displays and workstations. It archives images in an archive built physically as a combination of hard disk and archive media like DVD, Blu-ray Disc or Digital Tape.

Information can be retrieved over the network. The DICOM 3.0 protocol facilitates a seamless fit into any hospital infrastructure. The DAX DICOM Archive is the perfect extension of any existing PACS environment or can act as a stand-alone mini-PACS archive.

Images are stored permanently on DVD, Blu-ray Disc or Digital Tape while an internal hard disk cache provides instant and easy access to the most recently archived and retrieved images.

The entry level solutions provide long term archival storage, where data is moved off-line automatically relatively quickly. The high end solutions provide vast amounts of on-line archival and unlimited near-line archival storage. The DAX DICOM Archive offers a broad portfolio of different solutions, facilitating optimum implementation of Information Life Cycle strategies for each modality.

Benefits

- Patient data is instantly available throughout the hospital.
- Unlimited and permanent archival storage of all medical images are compliant with legal requirements.
- Plug-and-play systems, only require configuration into the hospitals network.
- Fully scalable solution, for any budget requirement.
- The facility to export data and create DICOM CD's is an additional function, eliminating the need for a separate CD DICOM station.

Supported DICOM 3.0 service classes:

- Storage (SCU/SCP)
- Query/Retrieve (SCP)
- Verification (SCP)

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