

PenRad

the mammography information specialists...

Digital Automation Solutions

Imaging facilities, with or without mammography, can add automation and productivity modules to their systems with the PenRad digital automation modules that are generally only available in full HIS/RIS and PACS systems.

The PenRad DICOM Worklist module allows modalities to more efficiently populate the DICOM imaging header and provide consistent DICOM information for image archival. Facilities scanning priors for comparison have access to historical mammography imaging, without manual entry. The PenRad DICOM Worklist can be used in conjunction with our HL7 module.

For facilities desiring to attach the narrative report to the mammography imaging file, activating the DICOM SR (structured report) module creates a DICOM Basic SR of the narrative report when results are sent to the HIS/RIS.

The PenRad DICOM Worklist and SR modules satisfy the need for current and historical imaging archival without the need for a full DICOM broker, thus reducing the cost of digital deployment.

PenRad's DICOM Worklist Scheduler facilitates pre-fetching of images (priors) and distributes images directly to reading workstations in advance to eliminate the wait fetch time during reading and/or distribution to other DICOM devices such as off-site archives and DVD burners.

For facilities wanting to add additional automation for the radiologist, PenRad offers softcopy workstation connectivity so PenRad patient information and report generation are synchronized with the imaging study.

DICOM Library.net

PenRad's full suite of DICOM library components is available for licensing.

PenRad Softcopy Connectivity Module

This module allows the synchronization between PenRad and the softcopy workstation to select the corresponding patient in PenRad automatically. It saves the radiologist time by not having to select the patient in both systems. It reduces inherent errors, similar to when the barcode is attached to the images in the film environment. The module is available for the Hologic and Siemens (Mevis software), Fuji, Sectra, and PlanMed workstations. As other workstation vendors request an interface, they will be made available. Softcopy vendors may have an additional charge for the interface.

PenRad DICOM Modality Worklist SCP

The PenRad DICOM Worklist module operates in conjunction with the PenRad MIS (Mammography Information System) allowing facilities to execute DICOM queries to eliminate manual data entry. The module supports DICOM based imaging modalities for worklist and "ad hoc" queries for patients with prior imaging information. This allows facilities to increase their efficiencies when transitioning to digital imaging and scanning priors for comparison. The software package is a Windows service.

PenRad HL7 DICOM SR (structured report)

PenRad's HL7 DICOM SR extracts the report from the result section of the HL7 message to create a DICOM Basic Structured Report to be associated with the imaging files for archive or review on a softcopy workstation. The software can be used as a stand-alone product and can also be used to populate legacy exams from HL7 result messages. The software package is a Windows service.

PenRad HL7/DICOM Standalone Package

PenRad offers a combination package that allows facilities to execute DICOM Worklist queries from an HL7 source to eliminate manual data entry. This package generally satisfies the need for imaging archival without the need for a full DICOM broker. It processes HL7 orders and ADT, populates an internal SQL database, and processes DICOM queries to populate image modality data fields, eliminating manual data entry. This increases efficiency and provides consistent DICOM information for image archival. The database can be pre-populated to add historical patient information. The software package is a Windows service.

PenRad DICOM Worklist Query Scheduler

PenRad's DICOM worklist scheduler facilitates pre-fetching of images (priors) and distributes them directly to reading workstations automatically in advance to eliminate radiologists waiting for images to download. For facilities that are manually transferring images, this module eliminates the requirement to schedule staff to complete this task. (Scheduled pre-fetching is generally only available with full HIS/RIS and PACS systems.) This module queries the worklist automatically, filtered by imaging modality and body type, for a specified time interval and provides C-MOVE, and/or query/retrieve and store capabilities for multi-destination (workstation and archive) distribution. The scheduling component allows bulk distribution at night, reducing day time network traffic to real-time imaging, thus increasing bandwidth during the day. It optimizes performance of limited networks (T1, DSL) for off-site imaging and storage. The worklist is monitored for additions (walk-ins) to immediately retrieve required images for distribution. Use PenRad's HL7/DICOM module when a worklist is not available (queries HL7 orders). The software package is a Windows service.

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