

# Streamlining Workflow



## Streamline Your Digital Mammography Workflow with the SecurXchange® Router

Many sites face workflow challenges related to the transmission of DICOM objects. Special challenges occur in a scenario with numerous diagnostic workstations, several acquisition gantries and PACS, all sending to multiple destinations.

The SecurXchange Router is a powerful new product with the ability to automate workflow in the transfer of DICOM objects.

### SecurXchange can be configured to:

- Pre-fetch DICOM images or other objects from long term storage
- Post-fetch DICOM images on demand
- Route DICOM objects to configured destinations according to advanced routing rules
- Apply compression and decompression of images for transfer over low bandwidth networks.

### Obtain Prior Images Anytime, Anywhere

Radiologists must have access to prior mammography images for interpretation. Many sites rely on pre-fetching, which is the ability to automatically retrieve prior studies based upon communication with a Radiology Information System. Typically, pre-fetching is configured to occur during non-working hours so as not to disrupt workflow or place a burden on the hospital network. SecurXchange Router utilizes DICOM Modality Worklist to allow for highly configurable pre-fetching and routing of images. Post-fetching may be configured to allow prior studies to be retrieved on demand.

### Data Compression Prevents Bottleneck

As digital mammography becomes more available in smaller clinics and satellite locations, images are often transferred to a central facility for interpretation and/or archiving. If transmission occurs utilizing low bandwidth networks, it can create a workflow bottleneck. The SecurXchange Router can improve the workflow bottleneck by using the loss-less compression of the original data at the source, and may apply decompression of the data at the destination if needed. This minimizes lengthy transmission times that may cause delays in interpretation.

### Configurable Routing for Optimal Workflow

The SecurXchange Router can be configured for multiple functions. It can pre-fetch from multiple archives, and route those images to several locations. This allows facilities to customize the flow of images according to their individual needs. SecurXchange Router can route DICOM objects to any configured destination based on the content of DICOM attributes.

### Please contact your Hologic Account Manager for more details.

A Hologic Sales Connectivity Specialist is available to help you evaluate how SecurXchange Router could facilitate workflow at your facility.

# Specifications



## Capabilities:

- Compatible with all DICOM objects
- Image loss-less compression, transmission, and decompression
- Pre-fetching and routing of prior images
  - o Including Multi-modality
  - o From multiple PACS
  - o To unlimited Remote AE titles

## System Hardware Specifications:

The hardware is a Dell 510 with the following minimal configuration and settings:

- Intel® Xeon® E5550, 2.26Ghz, 8M Cache, 5.86 GT/s QPI, Turbo, HT
- At least 8 GB memory (2x2GB - 1066MHz Dual Ranked UDIMMs)
- Redundant fans and power supplies
- Dual Gigabit Ethernet NIC
- Near Line SAS hard drives
- Integrated RAID with 1TB useable storage capacity

## Software Specifications:

- LINUX OS

## Hologic Connect:

All SecurXchange Routers are equipped with Hologic Connect, which provides a secure, remote connection between Hologic's Technical Assistance Center and the customer.



## Physical Specifications:

- 2U Rack Mountable Head Unit
  - o D x W x H with bezel attached  
26.80" x 17.44" x 3.4"  
68.07cm x 17.44cm x 8.64 cm
  - o Rack Weight: 57.54 lbs (26.1 Kg)\*
- Power Supply
  - o APC Smart-UPS 1500VA USB & Serial RM 2U 120V
- Power Rating
  - o 90-264 VAC, autoranging, 47 – 63 Hz
- Wattage
  - o 870 W High Output; 570 W Energy Smart

## Environmental Specifications:

- Heat Dissipation
  - o Heat Dissipation: 2968.6 BTU/hr maximum High Output and 1944.9 BTU/hr maximum Energy Smart
- Operating Environment
  - o 50°F to 95°F (10°C to 35°C)
  - o 20% to 80% humidity (non-condensing)
  - o Altitude: -50 ft to 10,000 ft (-16m to 3,048m)
- Non-Operating Environment
  - o 40°F to 149°F (-10°C to 60°C)
  - o 5% to 95% humidity (non-condensing)
  - o Altitude: -50 ft to 35,000 ft (-16m to 10,600m)

\*Maximum configuration

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