An Uncompromised VNA For Everyone

Any facility – be it a small imaging center, a community health center or a large hospital, can consolidate all patient imaging content from all departments into one repository, fully integrate with existing EMRs or EHRs, and eliminate dependencies on outdated PACS architecture.

A Candelis VNA server is the most feature-rich, reliable and cost-effective multi-modality image management and workflow optimization solution, providing for end-to-end support for the entire radiology workflow on a single hardware platform. The innovative appliance architecture simplifies deployment, implementation and day-to-day workflow. Candelis' appliance architecture yields immediate benefits to customers through lower upfront costs and material productivity gains, all while drastically reducing ongoing direct costs associated with IT administration and maintenance contracts. Customers achieve the lowest Total Cost of Ownership (TCO) and greatest return on investment – enabling them to maximize profitability.

Mercury Neutrality Attributes

A Candelis VNA provides:
- A high-performance real time system, a scalable deep archive – or both
- The ability to manage and provide visualization services for studies from virtually any vendor modality
- Visualization, reporting and workflow services via Candelis products
- A longstanding and demonstrable commitment to openness and integration – enabling facilities to select and employ products of their choosing for visualization, reporting and workflow services
- Rich services to referring physicians and site constituents through ASTRA – Candelis' state-of-the-art cloud solutions portfolio
- Local storage options or exploitation of existing storage pools within the enterprise

Mercury VNA™ for Community / Regional Hospitals

The Mercury VNA™ image management and workflow optimization solutions are ideal and the most cost-effective solutions for Community / Regional Hospitals, either as a replacement RIS/PACS or a first-time VNA implementation. Mercury VNA™ provides...
Mercury VNA™ also provides hospitals with the ability to easily back-up their data for compliance with HIPAA. The options for automated data back-up include the automated routing of all data to an off-site ImageGrid Disaster Recovery RAID Archive, backup to a remote NFS pool or backup to ASTRA.

**Multi-Locatation, Multi-Physician and Multi-Modality Diagnostic Imaging Centers**

Mercury VNA™ is the ideal and most cost-effective solution for multi-location, multi-physician and multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities at any number of locations can easily send images and patient data to their respective storage/server system for archiving and subsequent routing (push and pull) to/from workstations on the local area network (LAN) or between different locations securely, either via the Candelis ASTRA™ cloud solution or through Virtual Private Network (VPN) connection. Radiologists have diagnostic viewing capability from anywhere via the various Mercury VNA™ web-enabled viewers. The integrated web-enabled RIS automates the workflow between all locations and enables access to patient records and data from any of the sites. A bi-directional automated routing policy allows for two ImageGrid systems to perform back-up of all studies efficiently during off-hours to optimize bandwidth utilization between locations. In this scenario, each facility has a full-scale ImageGrid on-site and ImageGrid’s intelligent software manages the flow of data between facilities based upon policies and guidelines. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities as well as access to reports for their respective patients.

**Single Location Multi-Modality Diagnostic Imaging Centers and Clinics**

Mercury VNA™ is the ideal and most cost-effective solution for single-location, multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities can easily send images to Mercury VNA™ for archiving and subsequent routing (push and pull) to and from...
workstations on the network. Radiologists have diagnostic viewing capability from anywhere via the various Mercury VNA™ web-enabled viewers. The integrated, web-enabled RIS provides for automation of the entire workflow. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities. And now, all referring physician needs - from report and key image viewing through study visualization - can be supported through Astra™. HIPAA mandates duplicate copies of patient files including imaging studies; to support that requirement, studies can be automatically replicated to Astra™ or to a second ImageGrid deployed at a secure off-site location. In either case, the rule of law is satisfied automatically, with almost no user intervention.

Mercury VNA Attributes

- Accepts and manages studies from virtually any other-vendor system
- RT tag support
- Numerous HL7 integrations with other vendors – both inbound and outbound
- Support of and participation in a PIX broker facility which provides for Master Patient Index (MPI) infrastructure
- XDS support – both registry and repository
- Provide storage directly on the appliance, or mount existing storage pools present in an end user’s environment
- Powerful routing capabilities; Candelis systems

Three Flexible Solutions

Modernize your digital image infrastructure with our three flexible Vendor-Neutral Archive (VNA) solutions. We offer attractive and innovative pricing models to meet the needs of small, medium, and large medical facilities.

Mercury VNA™ Lite
Save aged studies into a safe repository

Mercury VNA™ Gateway
Carve out a section from your current main data center (EMC, NetApp, or other-vendor NAS) to create a storage solution

Mercury VNA™ Enterprise
Consolidate multiple sites and dozens of image sources in separate silos into one main repository

Candelis has a number of Tier 1 OEM partners. We make those relationships successful by being agnostic and supporting each vendor’s standard and non-standard objects, and as such, was the first vendor to support BTO and CTO Tomosynthesis formats.

Pick your storage solution: 25 TB, 50 TB, 100 TB, or more. Never allow limited image management capabilities to hamper patient care again.
**System Features**

**Built-in Storage**
- Head Unit
  - 8-drive RAID 6 disk array
- Expansion Chassis
  - 12-drive RAID 6 disk array
  - (can be daisy-chained)

**Setup and Configuration**
- Comprehensive web-based user interface for system administration

**Network Connection**
- Quad Gb NIC

**Optional Features**
- Web-based Diagnostic Radiology, Mammography Viewers, Radiation Oncology Visualization interfaces
- Web-based RIS, MWL instantiation, Mammo Tracking and Reporting subsystem
- HL7 Support for integration with 3rd party RIS, HIS or EMR
- ASTRA integration for transfer, sharing, report and key image distribution, browser-only study visualization, backup/restore, archive/retrieve and DR

**CPU & Memory**
- 6-core / 12-thread Intel® Xeon® 2600 v3 family (minimum)
  - 15 MB L3 cache (minimum)
  - Optional 10-core / 20-thread, 25 MB L3 cache
  - Optional Dual Processor Configurations
- 8 GB DDR4 2133 MT/s (minimum)
  - Optional configs to 768 GB DDR4 2133 MT/s
  - Intel® QuickPath Interconnect (QPI) 8.0 GT/s (minimum) or 9.6 GT/s

**Warranty**
- 1 Year Hardware with Next Business Day on-site (US and in over 100 countries)
- 1 Year Software telephone and e-mail support
- Extended Service program providing both Updates and Upgrades to in-service customers

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**Specifications**

**Storage Capacities**
- Head Unit
  - 1.8 TB Raw (0.9 TB Usable) to 43.7 TB Raw (32.7 TB Usable) RAID 6 configurations
- Expansion Chassis
  - 5.5 TB Raw (3.6 TB Usable) to 87.3 TB Raw (72.8 TB Usable) RAID 6 configurations per chassis
  - Expandable to hundreds of terabytes

**Agency Certifications**
- BSMI (Taiwan), CCC (China), CAN/CSA , CSAus, FCC (U.S.), CE Mark, C-Tick (Australia / New Zealand), ICES (Canada), MIC (Korea), SABS (South Africa), VCCI (Japan), UL 60950-1, ISO 9001

**Chassis**
- 2U Rack Mountable Head Unit
  - 3.44” H x 17.49” W x 26.92” D (in)
  - 87.3 H x 444.0 W x 684.0 D (mm)
  - Rack Weight: 64.3 lbs (29.2 Kg) maximum configuration
- 3U Rack Mountable Expansion Units
  - 3.43” H x 18.98” W x 23.39” D (in)
  - 87 H x 482 W x 594 D (mm)
  - Rack Weight: 62.6 lbs (28.39 Kg) maximum configuration

**Power**
- Power Rating: 100 - 240 VAC, 50 – 60 Hz (input range 90 – 264 V, 47 - 63 Hz)
- Input Current: 10A – 5A at 100 - 240 VAC, 50 - 60 Hz
- Head Wattage: 474 W input, 724.9 W maximum
- Expansion Unit Wattage: 334 W input, 683 W maximum

**Heat Dissipation**
- Head: 2473.3 BTU/hr. (maximum configuration)
- Expansion: 2330.5 BTU/hr. (maximum configuration)

**Operating Environment**
- 50°F to 95°F (10°C to 35°C)
- 10% to 80% relative humidity with 78.8°F (26°C) maximum dew point (non-condensing)
- Altitude: 10,000 ft (3,050m) maximum
  - For altitudes above 3117 ft, maximum operating temperature is de-rated 1°F/547 ft