



Vital Medical Data Storage Systems

A Safe Harbor For Medical Data Storage

CeloPACS Server

Product Information

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CeloPACS - A Cost Effective PACS Server

Highlights

- A vendor neutral PAC server complying with DICOM standards.
- Scalable and fault tolerant RAID Storage.
- Web-based system administration and operator interface.
- Multiple AE Title support.
- Custom built to meet the needs of our clients.

Benefits

- A full-featured central repository for all PACS applications.
- Stand-alone or interface with existing enterprise PACS systems.
- An affordable DICOM compliant and vendor neutral PACS Server for handling storage.
- Allows storage from multiple AE Titles from different manufacturers (10 AE Titles default, other options available).
- Scalable storage capacity, adjustable for increased storage demand.
- Server-enabled access to all DICOM part-10 compliant images in the repository.
- Fault tolerant RAID storage delivers the best available cost/performance for data protection.
- CeloPACS accessible through LAN/WAN and internet.
- Individual/Group user account setup with a full range of data accessing privileges for better security and HIPAA compliance.

CeloPACS Components Overview

1/ PACS Server Module

- Vendor neutral and compatible with all DICOM compliant AE modalities.

- Supports simultaneous multiple associations.
- Comprehensive support of DICOM transfer syntaxes.
- Supports Query/Retrieve protocols such as C-FIND, C-MOVE, C-GET, Storage protocol C-STORE, Storage Commitment SCP, Modality Worklist SCP, Communication protocol C-ECHO etc.
- Advanced search options based on IDs, name, date, study, image, modality, etc.
- Supports Auto-Routing, Patient Information Reconciliation, Patient ID Duplication check, image Importing/Exporting, DICOM Print.
- Supports automatic archive directory purging.
- Ability to attach encapsulated user documents (e.g., a PDF report).
- Provides an intuitive web interface.
- Supports system users' access control.
- Individual and Group accounts with access rights assigned by the administrator.
- Real-time continuous CeloPACS Server event monitoring.

2/ Database Server Module

- Fast, Robust, and Secure database.

3/ Web Server Module

- Provides a multi-processing HTTP server with ModSecurity capability.

4/ Data Archive Server Module

- Primary storage for DICOM data and associated data base.
- Fault tolerant RAID storage architecture (RAID5 default, other RAID configurations available).

- Scalable and flexible storage capacity (Chassis dependent).
- Can be set up as a NAS main storage module (optional).

Miscellaneous

- HL7 interface (optional).

Hardware Specifications

CPU

- Multi-Core Processor (Intel Core i series default for desktop chassis, Xeon Processor optional).
- Intel Xeon Processor (For rack mount chassis).

Chassis

- Desktop (default) or Rack Mount with choices of U chassis.

Scalable Storage, Raw Capacity

- 4 TB RAID5 Storage (Default).
- Maximum RAID Storage is limited by chassis type/hard drive. Typically 18TB for desktops.
- Storage space is scalable up to maximum limit set by chassis.
- Alternative RAID & Hybrid RAID technologies available.
- (Optional) Available Enterprise class hard drive.
- (Optional) Available Hot-swap hard-drive configuration.

Network Connection

- 10/100/1000 Mbps high-speed network connection capability.
- Dual Gigabit Ethernet ports.

Miscellaneous

- CD/DVD writer.

Power

- Wattage: Minimum 450 watts of clean, stable, continuous power. All power ratings depend on storage configuration capacity.

Warranty

Standard and Extended Warranty

- 1-Year Hardware Warranty.
- 1-Year Software Warranty including software updates via remote access.
- Optional extended hardware and software warranty.

Examples of available chassis

(Actual model and shape may differ.)



CeloPACS Server: Desktop Chassis



CeloPACS Server: Rack Mount Chassis