



ImageGrid DICOM Archive Appliance

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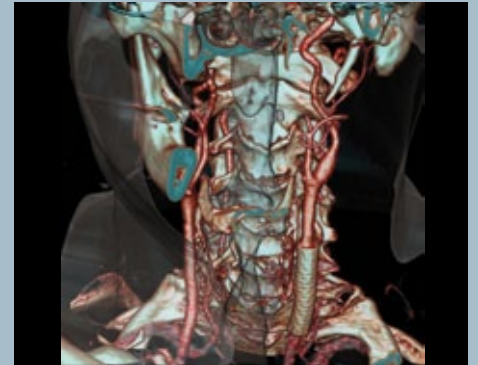
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ImageGrid DICOM Archive Appliance



Highlights

- RAID archiving with capacity ranging from 1 terabyte (TB) to hundreds of terabytes
- Multiple AE Titles on system for archive partitioning
- Supports DICOM-RT Objects
- Manual and highly customizable automated DICOM routing
- No additional licensing for adding modalities and third-party workstations
- Embedded database with a proven ability to handle hundreds of millions of images
- DICOM Encapsulation to attach non-DICOM files (PDFs, JPEGs, TIFFs, etc.) to each study
- Study Modification Tool with patient merge/split capability
- Automatic rule-based and HIPAA-compliant storage retention
- Automated pre-/post-fetching of relevant priors
- Web-based system administration and operator interface
- Optional FDA 510(k) cleared web-enabled Radiology, Mammography, and RT Viewers
- Optional web-enabled Referring Physician Viewer
- Optional web-enabled Mammography Tracking Module
- Optional HL7 support for integration with RIS, HIS, or EMR
- Optional integrated tape library with ImageGrid Data Back-up Software for compliance with HIPAA requirements
- Optional Modality Worklist (MWL) and Modality Performed Procedure Step (MPPS)



Price, Performance, and Reliability

The paradigm shift that was needed to significantly lower the cost of a fully integrated DICOM Archive has occurred. ImageGrid™ DICOM Archive Appliance is one of the most feature-rich, reliable, and yet cost-effective multimodality storage solutions for the entire radiology workflow on a single hardware platform.

ImageGrid's innovative "appliance" architecture has conquered the complexities of traditional approaches to storage archiving. The appliance architecture provides immediate benefits to customers through lower upfront costs as well as ongoing

costs associated with IT administration and maintenance contracts. This allows customers to achieve a low total cost of ownership (TCO) for their DICOM Archive investment, resulting in a faster payback period and higher return on investment.

Web-enabled Viewing

ImageGrid offers several web-enabled, feature-rich, and cost-effective visualization options. ImageGrid Radiology Viewer provides a complete suite of image processing and viewing tools and provides access to studies from anywhere on a local area network (LAN) or wide area network.

ImageGrid Advanced Radiology Viewer provides additional features such as Hanging Protocols, Series Linking, MIP/MPR, and support for up to five monitors. These additional features

address key requirements for the reading of CT and MRI studies. In multi-physician environments, radiologist worklist synchronization prevents duplication of effort and improves turnaround time of studies.

ImageGrid Mammography Viewer allows radiologists to have fast diagnostic access to mammography studies from any workstation with appropriate medical grade displays. Key features of the ImageGrid Mammography Viewer include support for multiple concurrent

users, opening of multiple studies side by side, automated pre-fetching of relevant priors, and dynamic hanging protocols via a customizable workflow design tool.

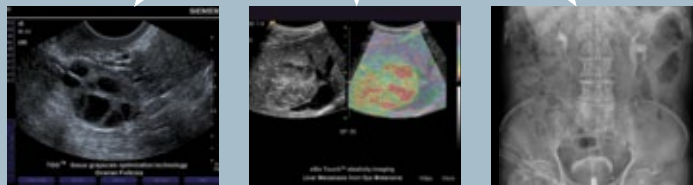
The ImageGrid Advanced Radiology Viewer and Mammography Viewer can also be accessed from a single workstation. This capability enables radiologists to read all their studies from one location and from one integrated worklist. The workstation supports Dual Head 5 MP, Dual Head 2 or 3 MP, and a fifth monitor for the worklist.

Modalities



RIS/HIS/EMR

Integration via HL7



Volumetric Imaging Workstations

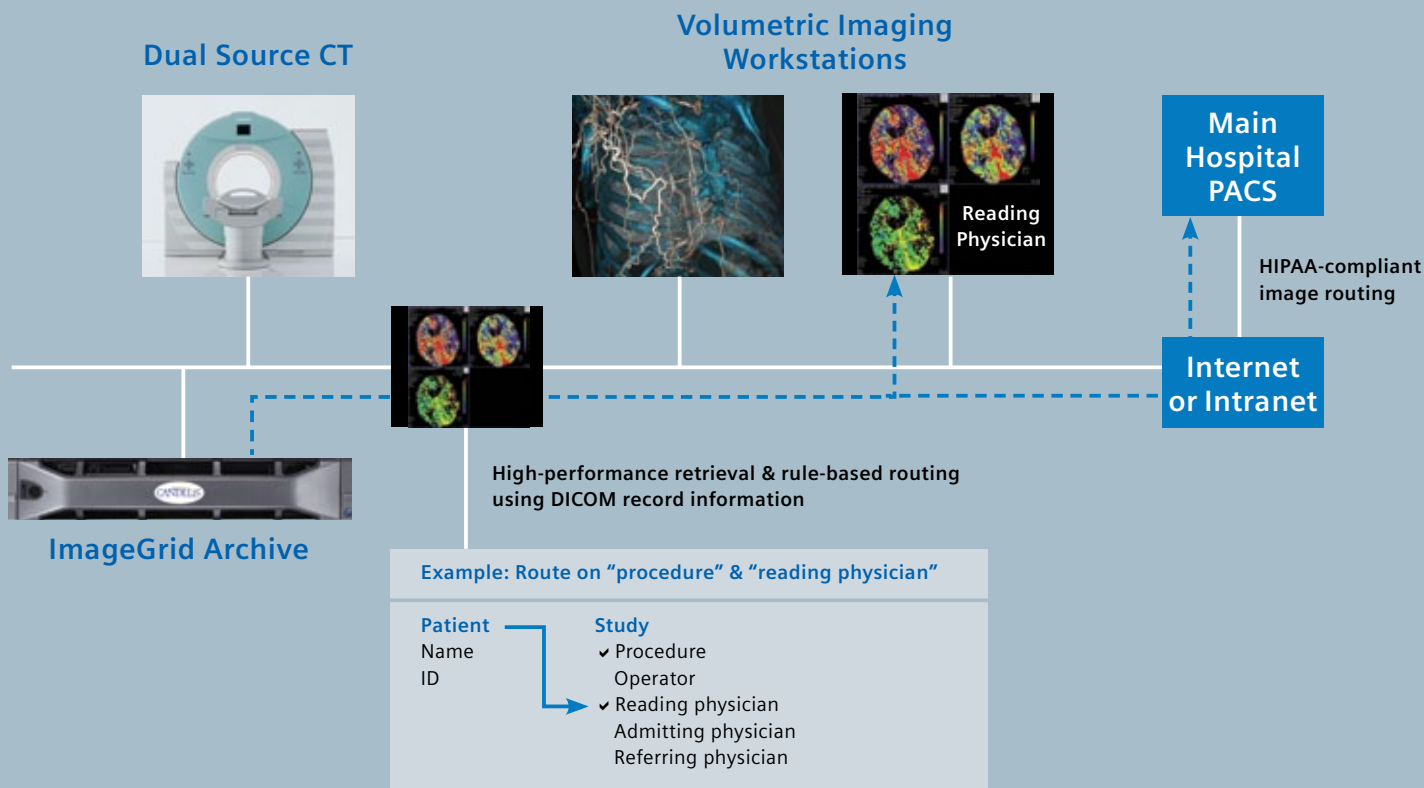


Figure 1: "Dedicated" DICOM Archive Appliance for a dual source CT in a large university hospital with existing enterprise PACS.

ImageGrid DICOM Archive for Community/Regional Hospitals

ImageGrid DICOM Archive is an ideal and cost-effective solution for a Community/Regional Hospital, either as a replacement DICOM Archive or a first-time implementation. ImageGrid DICOM Archive provides the required features and functionalities with low TCO, thereby allowing hospitals to allocate more funds toward purchasing the latest modalities for better patient care. For Community/Regional Hospitals

looking at implementing a second or third generation solution, ImageGrid DICOM Archive will most likely cost less than the annual maintenance contract of the existing solution.

At many Community/Regional Hospitals, radiologists require the flexibility to read onsite or via remote access. ImageGrid's web-enabled visualization solutions for both radiology and mammography,

along with a fully synchronized worklist, improve radiologist productivity and reduce turnaround time for reading and reporting. Access to studies is optimized through user-driven lossless compression and automated rule-based pre-fetching of relevant priors, which is designed to provide radiologists with all the information needed for efficient diagnosis and reporting.

Many Community/Regional Hospitals may also rely on third-party teleradiology service providers for off-hour reading. ImageGrid's powerful and highly customizable DICOM routing engine allows for the automated, efficient and timely routing of studies to any number of destinations. Routing rules can be defined as broadly or as narrowly as desired to optimize workflow and furthermore, can be scheduled to occur at the appropriate times.

ImageGrid's functionalities provide for the automation and optimization of a hospital's radiology operations. The web-enabled application captures the entire workflow from patient registration to final report delivery. ImageGrid DICOM Archive can be integrated with the hospital's EMR or HIS via HL7 to further streamline operations and provide consistency of patient records.

ImageGrid DICOM Archive 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 offsite ImageGrid Disaster Recovery RAID Archive or to an onsite, fully integrated tape library solution.

Single Location, Multimodality Diagnostic Imaging Centers

ImageGrid DICOM archive is an ideal, cost-effective solution for single-location, multimodality diagnostic imaging centers and clinics. Any number of modalities can easily send images to ImageGrid for archiving and routing to/from workstations on the network. Radiologists have diagnostic viewing

capability from virtually anywhere via the various ImageGrid web-enabled viewers. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities. With HIPAA mandating duplicate copies of patient files including imaging studies,

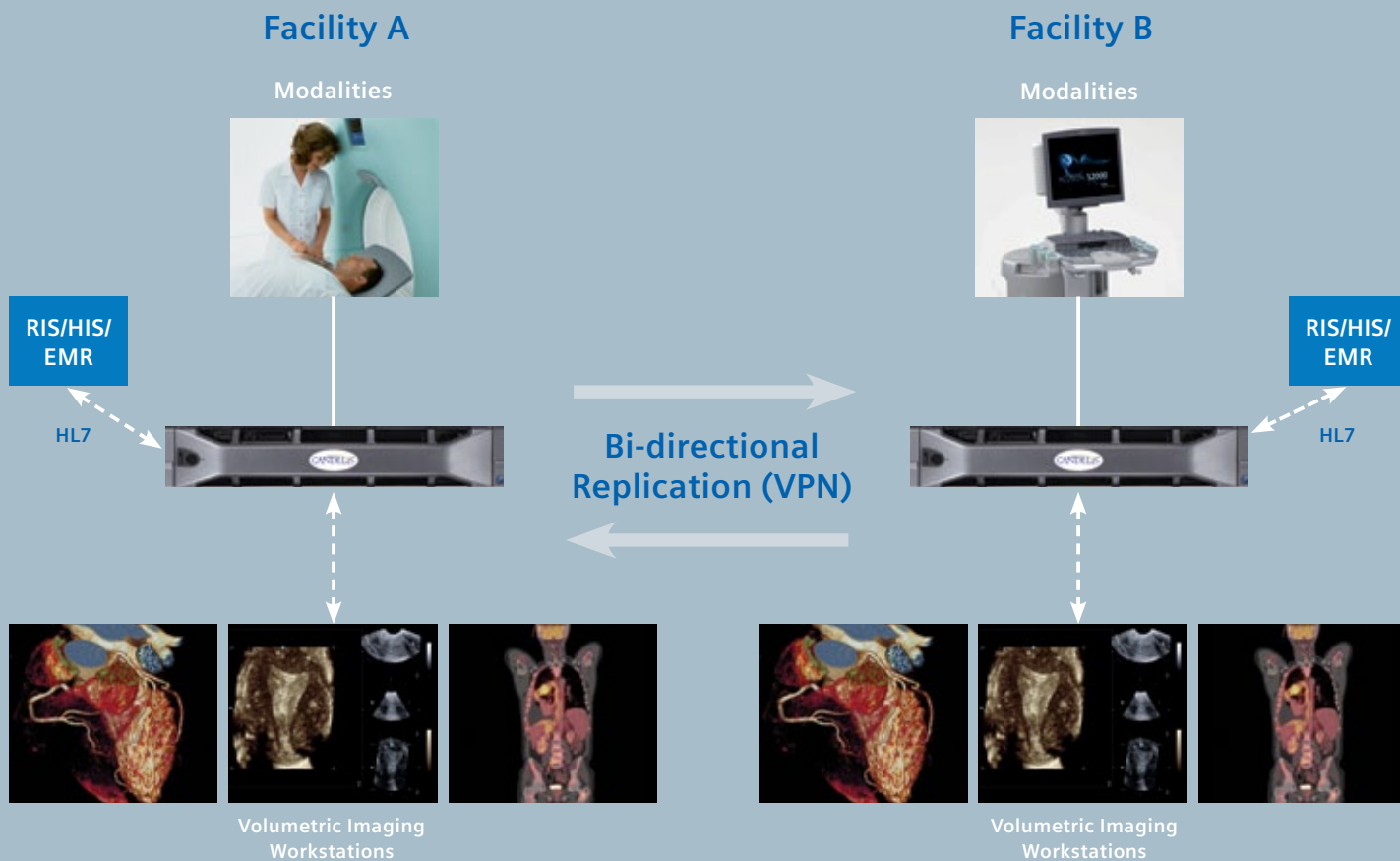
a second ImageGrid can be deployed at a secure offsite location, and a copy of all studies can be routed to the second system automatically based on rules, policies, and guidelines. Alternatively, the optional fully integrated tape library can be deployed onsite and used to back up all data.

Multi-Location, Multi-Physician, and Multimodality Diagnostic Imaging Centers

ImageGrid DICOM Archive is an ideal, cost-effective solution for multi-location, multi-physician, multimodality diagnostic imaging centers and clinics. Any number of modalities at any number of locations can easily send images and patient data to their respective ImageGrid storage/ server systems for archiving and routing to/from workstations on the local area network (LAN) or between different

locations via virtual private network (VPN) connectivity. Radiologists have diagnostic viewing capability from virtually anywhere via the various ImageGrid web-enabled viewers. 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 DICOM Archive onsite and ImageGrid's intelligent software manages the flow of data between facilities based on rules 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.



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