

Medical Data Store (MDS) - Virtual Storage for Medical Imaging and Bioinformatic Data

MDS is a complete, XML and meta-data managed solution for on/off-site, Internet-enabled, remotely accessible medical imaging (e.g. DICOM) and bioinformatic data (e.g. ANSI formatted gene sequence). MDS facilitates the secure, HIPAA compliant storage of digital medical diagnostic and research data through encrypted interfaces between a clinical and basic research environment and the distributed/centralized repository or Argosy's secure, externally hosted systems.



MD Data Store Services

- Secure, on/off-site dynamic storage, archival and retrieval of digital medical imaging and bioinformatic data.
- Integrated, virtual storage with key medical imaging and bioinformatic analytics.
- Meta-data curation applications for uniform file archival annotation, search and retrieval support.
- Workstation based data viewers, browsers and management interface.
- Local, Linux based queuing server with high-speed interface to imaging and assay devices and high-speed wide-area network to the off-site repository.
- Embedded, real-time data compression and encryption algorithms for high-throughput.

Improved Clinical and Research Effectiveness

Information technology infrastructure necessary for the secure, reliable, HIPAA compliance-facilitated storage of digitized medical data has placed critical demands on the staff and resources of all clinical and medical research centers that have come to depend on essential medical imaging and bioinformatics for essential research and diagnostic protocols. MDS's web based services are designed to eliminate these problems by providing a cost-effective, efficient, rapidly deployable solution for commercial and publicly funded clinical and medical research organizations. Recent significant changes in the Healthcare and Life Science industries have increased this burden as evidenced by:

- HIPAA requirements for 6 year archival of data, access auditing, privacy, consent requirements and secure storage and distribution of medical records.
- Expanded use of medical imaging in research, diagnostics, therapeutic and multi-modality studies is increasing the demands for managing this data geometrically.
- Genomic and proteomic assays are increasing the volume and velocity of bioinformatic data by orders of magnitude.
- Storage of this data is exceeding the capabilities of the traditional clinical and research center staff and infrastructure.

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