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ayData NDT Archive for HPX Digital Systems

AS INDUSTRIAL DIGITAL RADIOGRAPHY CONTINUES TO GROW, SO DOES THE DEMAND FOR THE SECURE STORAGE AND EASY RETRIEVAL OF VALUABLE COMMERCIAL IMAGES.

That's why Carestream NDT and ayData, two global providers of NDT DICONDE data management, are partnering, combining Carestream HPX digital image acquisition products with the ayData NDT archive.

ACQUIRE. ANALYZE. ARCHIVE.

Seamlessly integrating this powerful combination delivers a fast, easy, secure and reliable archive solution for NDT.

ayData
DATA MANAGEMENT SOLUTIONS FOR NDT

Carestream NDT

A powerful indexed DICONDE archive solution for Non-Destructive Testing images and information.

The ayData NDT archive delivers a complete, scalable and flexible indexed Digital Imaging and Communication in Non-Destructive Evaluation (DICONDE) archive solution for non-destructive testing (NDT) images and information. With high performance features, the ayData NDT archive can improve the workflow in any environment where reliability, quality, and security are of key importance.

Powerful Performance

ayData NDT archive's advanced indexing technologies provide fast, efficient, reliable and secure storage, retrieval, and validation of DICONDE images. Utilizing a central database, searching by component, date, or inspector has never been easier. By leveraging the ayData NDT archive you now have a central digital "film vault" of all historical inspection data and records at your fingertips. Pre-inspection planning can easily reference prior inspection data and post-imaging analysis and reporting can be done by a central experts group and "in context".

Works in Any Environment

Ideal for robust on-site, multi-site, and off-site implementations, the ayData NDT archive works in any environment where there is a need for fast, efficient, reliable, and secure storage and retrieval of DICONDE images and information. Key industry applications include:

- Aerospace
- Defense
- Oil & Gas
- Transportation
- Shipping
- Manufacturing

Easy to Integrate

ayData NDT archive's vendor agnostic, modular, and scalable architecture enables compatibility and quick and easy integration with DICONDE hardware and NDT technology.

MINIMAL SYSTEM REQUIREMENTS

Hardware Option

- Dell PowerEdge server
- Intel Xeon Processors
- PERC H710 RAID or QLogic SAN HBA
- 1Gb and 10Gb Ethernet support

Virtualization Option

- VMware ESXi 5.5 U1 or newer
- Intel Xeon Processor based host
- Minimum 18GB host RAM
- Redundant SAN storage with RDM LUN support

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Advanced, Easy to Use Features Deliver Outstanding Results

Audit Logging	• Track all activity including image incoming storage, retrieval, send out, modify, and delete requests in complete process-independent logs.
Easy to use	• Easily and instantly search tags like component name, part number, inspection date and more utilizing our central database backed "index". No need to worry about confusing and complex naming conventions and/or folder storage. ayData NDT image archive's "one click to query" is fast and effi- cient.
Flexible	• Manages multiple long-term storage solutions and can scale to grow with your archival storage needs • Simplified multi-modal information sharing across the any number of end-users
Industry Standard	• DICONDE E07.11 compliant non-proprietary solution for digitally storing and retrieving NDT images and information.
Meta data Editing	• Fix data entry mistakes on the server without requiring a separate QA workstation • No tainting of capture timestamps when making changes
Native JPEG-Lossless Compression	• Enables storage space savings without compromising image quality or integrity.
Related Scans	• Immediately receive prior test images for the same component delivered direct to the inspection workstation without the need to search.
Scalable	• Scalable storage either directly attached or via Storage Area Network (SAN) for large corporate IT deployments • Can grow simply without the need to copy data when you are ready to expand • Server 'role' based-processes for large deployments • Powerful and petabyte scalable WORM storage with the SilentCube option
Tailored	• ayData meets with you to develop a customized solution to fit into your current/future NDT environment.
Turnkey Installation	• ayData will thoroughly plan and prepare for the install before arriving on-site, so you are ensured of a smooth and timely installation.
Vendor Agnostic	• Enables compatibility with other DICONDE hardware and software for quick and easy integration.
Virtual Archiving	• Segregate data into different silos for group or division isolation with different access requirements based on a programmable rule set.
VPN Encryption	• Keeps data traffic secure between sites. With the optional automatic off-site data storage, you can

Benefits of a Digital Indexed Archive for NDT

- Central digital film repository for immediate access to all authorized Images
- Quickly compare previous and reference images
- Easily and securely share with colleagues inside the plant or around the globe
- Storing images in native DICONDE to ensure compatibility with systems from all manufacturers

- Automated verification mechanisms to provide assurance to customers and auditors of image integrity and authenticity
- Access controls to limit inspector access on a "need to know" basis
- Backup options to provide copies of your image data and avoid loss
- Elimination of artifact introduction from the mishandling and stacking of films
- Certified hardware options for long-term (20+ years) image retention

- Elimination of expensive film storage rooms and off-site film archiving costs
- Elimination of transportation costs and time delays
- Silver recovery's return on investment to pay for digital migration
- One solution to connect all of your digital inspection systems

- Immediate availability of images to all individuals and departments involved
- Elimination of the many steps in the film-handling process
- Elimination of image loss once it is digital
- Increased flexibility from digital image manipulation tools such as dynamic contrast adjustment and measurement
- Reduction of labor involvement

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