

InspectionWorks Archive

Long-term Archival Solution for NDT Information

InspectionWorks Archive (IWA) is a standards-based solution for high-volume archival of NDT inspection data in DICONDE format from any vendor. It makes all NDT information and images available to NDT analysis and/or acquisition users. IWA supports secure, local Network Attached Storage (NAS) systems and cloud storage in either Amazon Web Services (AWS) or Microsoft Azure.

Benefits

- Improved competency in how data retention works:
 - Less downtime, lower risk of data loss, and a better user experience
- Streamline operations with unified, rule-based secure storage for any DICONDE acquisition and analysis software.
- Save time by applying metadata to ease search, categorization, supervision and discovery.
- Be confident with compatible redundant and disaster-proof hardware and software.

New version now includes:

- Amazon Web Services (AWS)
- Microsoft Azure Blob Container
- Updated, secure Microsoft Server & SQL Server support
- Image Lifecycle Management (ILM) improvements
- SQLDMO library eliminated for improved security



"InspectionWorks Archive is the only sustainable and scalable data management and storage solution that can handle large NDT data sets, that is truly DICONDE compliant, able to synchronize with cloud and provide effective hands-off storage, recall and search functionality."

NDE Process Engineer, Level III, US Aviation Company

InspectionWorks Archive (IWA) is an extremely efficient data management and storage solution, which allows easy access to large volumes of inspection information. Hundreds of millions of images can be stored at a central location, in the industry standard DICONDE-compliant format. It accepts images from remote workstations and stores these using various compression techniques to save storage space without sacrificing image quality. Input and retrieval of information is quick and easy, as a simple DICONDE tagging system eliminates the need for the complex image file naming conventions often associated with high volume information storage. Furthermore, IWA not only stores the raw inspection data but also any enhancements made during analysis at the analysis computers, never altering the original raw data.

Storing for the future

IWA is a totally DICONDE-based archival solution. DICONDE (Digital Imaging and Communication in Non-Destructive Evaluation) is an extension of the DICOM standard which was developed for the medical sector by vendor companies and user groups. DICONDE is now used by virtually every medical profession that utilizes images.

By using the vendor neutral IWA, users can enjoy a range of benefits. They can avoid legacy data issues and will not have to maintain old systems or convert old data in the future. They will also be able to use inspection data from various DICONDE-compliant equipment manufacturers, including NDT workstations, as DICONDE is non-proprietary. In addition, it will be possible to review historical inspection data with future software tools.

Flexibility and scalability are further advantages of IWA, as the system can be integrated with a number of long-term storage solutions, such as Network Attached Storage (NAS) systems, Amazon S3, or Microsoft Azure Blob Container Storage. Alternatively, you can choose the new option to deploy the IWA software directly onto your own enterprise server with your chosen data storage solution.

Sharing more information, faster

IWA offers a significant step-change in information sharing over the existing NDT software infrastructure. Often, data is archived on analysis laptops by storing on the hardware's limited hard disc capacity or on near-line DVD/CD.

Consequently, locating data for an inspection in a multiple workstation configuration can be rather complicated and time-consuming. With IWA information from all the acquisition and analysis software is available at one central repository so that data searching is more efficient. The platform can control image information workflow so that data can be routed to other Review workstations to allow further analysis and then back to IWA again.

Virtual archiving is yet another feature of IWA. This allows information managers to automatically segregate data, on a customer basis, on a department basis or on any storage specific basis, to provide customized, secure archives within the IWA. Companies require global DICONDE data management solutions like IWA that can be integrated into their own infrastructure/enterprise network.

Improving the bottom line

By improving data sharing and providing a central, safe, long term information repository, IWA can significantly affect profitability, with immediate benefits in time saving and reliability. However, IWA can also bring important productivity improvements of as much as 50%, as pre-inspection plans can now be formulated more efficiently by taking actual inspection history into account. A similar order of productivity improvement can also be achieved in post-inspection, as only relevant inspection data needs to be sent for further analysis.

Realizing the potential

Waygate Technologies has a collection of software that provide efficient and effective solutions for the acquisition, analysis, and archival of multi-modal digital inspection data. The software is typically made up of three integrated modules depending on modality. These modules are:

Acquisition software: This software interacts with the relevant inspection source to collect the digital inspection information. Current software supported modalities include CR, DR, film digitizers, 2D CT, 3D CT, and other technologies. It handles calibration, acquisition, and basic analysis and reporting.

Analysis software: accepts data from acquisition or other systems either by file or network forwarding using DICOM or other protocols. The analysis has the capability to enhance and manipulate digital data and features application tools for analysis, measurement and further enhancement of images. The software allows information to be stored and shared on-line using its disc capacity, CD/DVD, USB flash drive or network storage. It also seamlessly integrates with archival systems.

InspectionWorks Archive: expands the operating potential of Waygate Technologies' and other parties' acquisition and analysis software enormously. Now, all information can be made globally available to every NDT user within a network.

IWA drives inspection productivity in various industries.



In **aerospace**, all inspection data can be stored for upwards of 50 years and still be quickly retrieved when required.



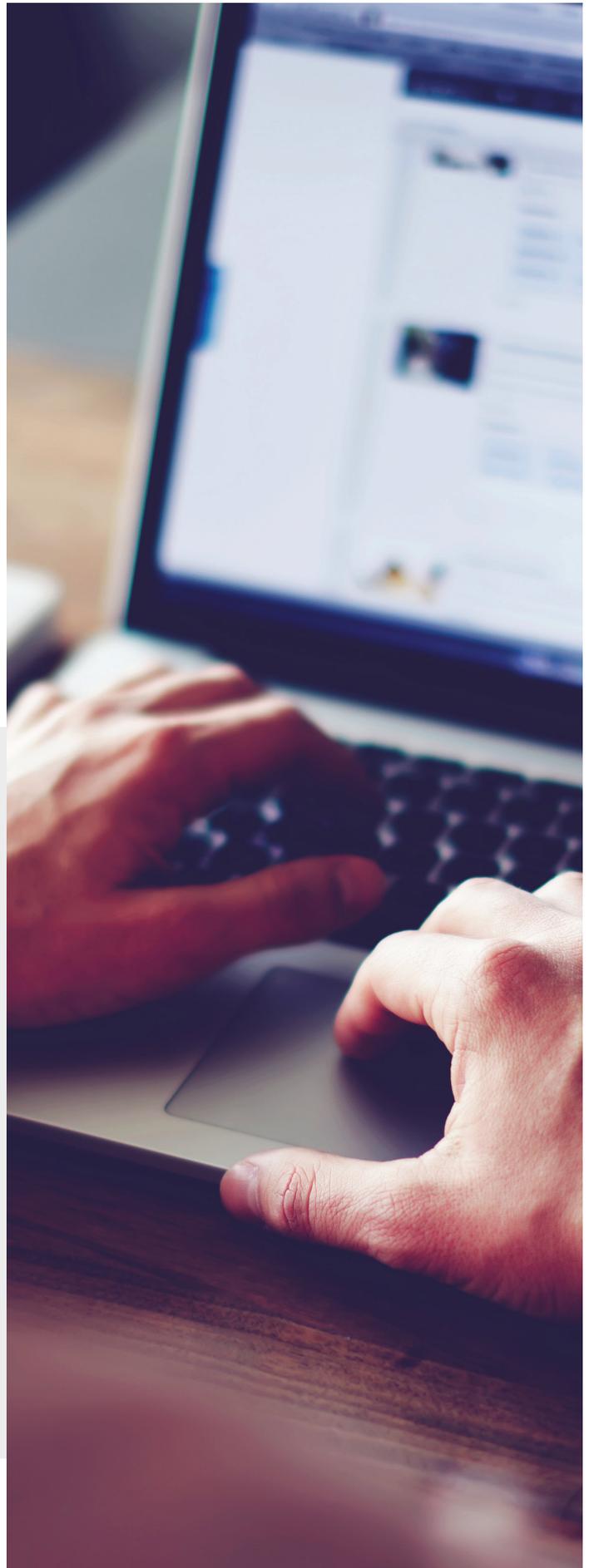
In **oil & gas**, weld inspection data can be transmitted to the Rhythm Archive, where it is accessible to expert resources for review and analysis.



In **power generation**, in-service assets can be better managed to help improve their operating life and reliability. In transportation, inspection planning can be faster, more meaningful, and targeted, by referring to the last inspection period.



In **transportation**, inspection planning can be faster, more meaningful, and targeted, by referring to the last inspection period.



InspectionWorks Archive

The DICONDE compliant solution to storing high volumes of vendor neutral NDT inspection data on a global company IT network.

Feature summary - your advantages

- A totally **DICONDE-based** vendor-neutral archival solution. Ensures that multi-modal inspection data will never become obsolete or inaccessible.
- **Simplified** information sharing. Data can now be readily accessed from a single storage source by any number of remote interrogation sites.
- Interfaces with a **wide range** of hardware and software long term data storage solutions. Allows operator to select secure, long-term storage to meet present and future needs.
- Provides **foundation** for **data mining**. Ready access to large volumes of data at one central storage point allows operators to compare inspections carried out at different times using different inspection modalities.
- **Robust and secure**. Disaster-recovery plans are incorporated, and built-in redundancy can be included to ensure constant data availability.

For the most up-to-date technical specifications and hardware requirements, please contact your local sales representative.

