

Reliable, robust, and easy-to-use DICOM® software applications, tools, utilities, and services to assist the Non-Destructive Evaluation & Testing community in the design, development and support of DICOM compliant imaging software, devices, or networks. *Laurel Bridge is a leading supplier of DICOM® based solutions for the medical imaging industry.*

Products

- POWERTOOLS™** DICOM Utilities and Tools for Testing & Debugging
- DCF™** DICOM SDK/Toolkit for Windows & Linux: 32/64 Bit, C# .Net / Java / C++
- COMPASS™** Router and Tag Morphing for DICOM Store Jobs
- EXODUS™** Migration of DICOM Archives
- SWITCHBOARD™** DICOM Inline Message Routing and Tag Morphing for all SOPs

Services

Design & Development

- Application Design, Development, Implementation, Testing, and Support
- Requirements and Specification Definition
- Project Planning, Management, & Strategic Consulting
- DICOM Migration Planning
- Conversion of various image formats to/from DICOM format
- Custom utilities to import non-DICOM data into an archive

Software Testing

- Designed & Configured for Customer Requirements
- DICOM Standard Conformance Testing & Validation

Why Adopt DICOM?

- Eases sharing of your inspection data, both internally and externally
- Avoids proprietary data formats—protects your software investment
- Avoids vendor tie-in—allows choice of the best vendor solutions
- Incorporates image metadata with the image pixels so that history is not lost
- Allows easier search and retrieval of historical inspection data
- Archives all testing modality data in one common, standards-based repository

Representative Customers

Alcon Research	DR Systems	Marshfield Clinic	Skagit Radiology
AltaPACS	Epic Imaging	Mobile X-Ray Imaging	SourceCorp
AGFA Healthcare	Faxitron Bioptics	North Memorial Hospital	St. Jude Medical
Bon Secours Health	Fujifilm	Northwest Radiology	TeleMammo Specialists
Bristol-Meyers Squibb	Hologic	Panasonic	U.S. Air Force
Catholic Health Initiative	Imaging Solutions (AU)	Quantum Radiology	VA-Veterans Affairs
Codonics	Imaging Specialists	Radia	Vancouver Island Health
Dell/InSite One	Intermountain Healthcare	Radisphere	Virtual Radiologic
Digisonics	Kowa Optimed	Siemens Medical	Viztek

The DCF supports the DICOM, Dicos, and veterinary customizations for utilizing DICOM-based standards.

DICOM – Digital Imaging and Communication in Medicine
 DICOM® – Digital Imaging and Communication in Nondestructive Evaluation
 DICOS - Digital Communication in Security
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MOVING FORWARD?
 MOVE YOUR DATA WITH INTEGRITY
 MOVE WITH LAUREL BRIDGE



LAUREL BRIDGE

Simplifying DICOM

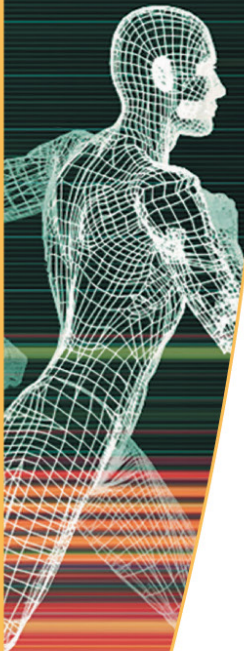
Design
 Develop
 Integrate
 Test
 Deploy



Laurel Bridge Software

DCF
 Compass
 Exodus
 PowerTools
 Switchboard

WWW.LAURELBRIDGE.COM



Product Details



PowerTools™

Suite of Standalone DICONDE Utilities and Tools for Testing & Debugging

- Windows®-based Suite of standalone DICONDE clients, servers, and utility applications.
- Facilitates diagnosis, testing, and repair of DICONDE communication problems.
- Provides for the viewing, editing, repair, anonymization, or creation of DICONDE data sets and their contents.
- May be used independently or scripted into a variety of test situations.
- Suitable for use by PACS administrators, integration engineers, system testers, software developers, field service technicians, and others who routinely work with DICONDE.

Exodus™

Migration of DICONDE PACS Archives

- Assess, Plan, Migrate, and Validate a DICONDE archive migration.
- Provides automated facilities and services for migration of studies, series and SOP instance data from one DICONDE 3.0 compatible physical archive to another.
- Supervises and schedules the migration activities.
- Provides exception processing and error handling.
- Provides automated multi-level validation & reporting.
- Records history, log, and performance statistics.
- Supports Modality Worklist (MWL) access to enable on-demand, pre-fetching of priors in priority mode.
- Site-specific mapping and/or alteration of DICONDE elements—dataset filtering and tag-morphing.
- Assessment Tool version available for single and multi-use.

DCF™ - DICONDE CONNECTIVITY FRAMEWORK

DICONDE SDK: Windows / Linux, 32/64 Bit, C# / Java / C++

- Advanced, object-oriented, component-based software framework implementation of the DICONDE protocol.
- Supports comprehensive, managed software development support for Windows and Linux environments.
- Provides robust, portable, high-performance, native implementations of DICONDE for C#, Java® and C++.
- Uses simple yet powerful Application Programming Interfaces (APIs) to accelerate application development.
- Includes a copy of the PowerTools product.

DICONDE has been developed to overcome interoperability issues that arise when archiving or analyzing data from NDE methodologies or techniques, each using their own proprietary data acquisition and storage systems. As digital NDE technologies evolve, it is desirable that data acquired in the past remains decipherable, searchable, and trackable. DICONDE defines a context in which all the inspection technique parameters and data are preserved in a standard format regardless of changes in digital technology, enabling the exchange of digital information between NDE imaging equipment and users in a vendor-independent, standardized way, using open, nonproprietary formats. Laurel Bridge Software participates in and monitors the DICOM and DICONDE Standards Committees and has been providing software tools, applications, and services that support DICOM-based standards since 1997.

Compass™

Store and Forward Router for DICONDE Store Jobs

- Provides powerful scheduling, filtering, and routing, including DICONDE tag content-based routing.
- Allows dynamic tag morphing to correct errant tags.
- Stores to multiple destinations, such as an archive and a viewing station, without modality repeatedly resending data.
- Enables transfer syntax and compression alteration.
- Optionally holds in-bound studies until manually dispositioned or automatically scheduled.
- Optionally combines studies received on multiple associations into a single outbound store job.
- Facilitates the interconnection of otherwise incompatible DICONDE devices, including support for transfer syntax changes.
- Includes a viewer for images and DICONDE headers.

Switchboard™

DICONDE Inline Message Routing and Tag Morphing for all SOPs

- Functions as an intermediate node between DICONDE clients and servers. Runs on either Windows or Linux.
- Allows the user to route, monitor, log, filter and convert DICONDE datasets during DICONDE network communications.
- Allows the movement of incompatible datasets through rule based correction of dataset elements in real-time.
- Facilitates interconnection of incompatible DICONDE devices, with support for transfer syntax and compression changes.
- Web-based GUI for configuration, control, and monitoring.
- Designed primarily for network or PACS administrators, developers, field service engineers, migration specialists, or anyone responsible for integrating DICONDE devices.

About DICONDE: ASTM Subcommittee E07.11 on Digital Imaging and Communication in Nondestructive Evaluation (DICONDE) is guiding development of standards designed to provide a universally compatible image data format that allows nondestructive evaluation (NDE) manufacturers and users to share image data. ASTM's standard E-2339 is based on the American College of Radiology (ACR)/National Electrical Manufacturers Association (NEMA) medical imaging standard: DICOM (Digital Imaging and Communications in Medicine). DICONDE harmonizes with the DICOM standard and encompasses all NDE specific imaging methods and technologies, such as infrared thermography, ultrasound, digital and computed radiography, computed tomography, eddy current, and acoustic emission; it provides standardized acquisition, storage, reporting and communication formats for the acquired data.

See <http://www.astm.org/Standards/E2339.htm> for more information.