



LAUREL BRIDGE

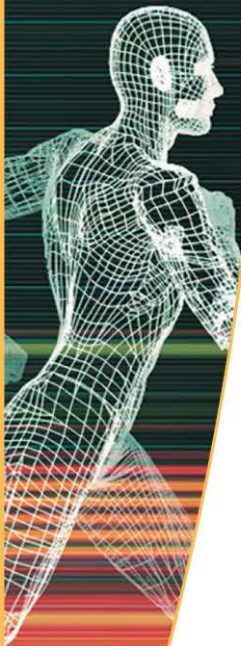
DICOM®  
PROBLEMS?

Integrating,  
testing,  
deploying systems?



**PowerTools™**  
DICOM  
TESTING,  
FILTERING,  
& CONNECTIVITY  
UTILITIES

WWW.LAURELBRIDGE.COM



A suite of tools designed for the testing, troubleshooting, or debugging of applications that use DICOM® communications, PowerTools also provides for the viewing, repair, or creation of DICOM data sets and their contents.

Designed for use by PACS administrators, integration engineers, system testers, software developers, field service technicians, and others who work with the DICOM protocol and related data on a daily or intermittent basis, PowerTools belongs in your toolbox.

Provided as both GUI and command-line applications, PowerTools are standalone Windows® applications that may be used independently or scripted for a variety of test situations where the capabilities provided are needed.

**What problems and tasks do you typically face?**

*Do you need to manipulate DICOM files?*

- View, edit, or print the contents of a DICOM file (dataset).
- Apply filters to a DICOM file or collection of DICOM files.
- Create a sample DICOM file in a particular transfer syntax.
- Convert a DICOM dataset to a new transfer syntax.
- Convert a DICOM image to a JPEG, GIF, or BMP image.
- Convert a PDF to a DICOM dataset.
- Diagnose problems with a DICOM dataset.
- Look up meanings for tag, element, and UID values.
- Create an index for a collection of DICOM datasets.

*Do you need to manage DICOM communications?*

- Send a DICOM dataset to a DICOM store server.
- Log the DICOM communication with a client or server.
- Stress-test a DICOM store server by sending it auto-generated data.
- Query a PACS for particular DICOM data.
- Send a DICOM C-Move request to a PACS.
- Send a verification message (echo, ping) to a DICOM device.
- Run a DICOM client server (echo, store, query, MWL, etc.) to test your own application or device for connectivity or functionality.

Harness the power and capabilities of the Laurel Bridge Software's premier DICOM SDK with PowerTools' easy-to-use applications and utilities.

*These tools and utilities provide the ability to transmit, receive, or edit DICOM medical data. Viewing functions provided by PowerTools are not intended for diagnostic use.*



## DICOM UTILITIES

- DICOM File Editor
  - View, edit, modify the contents of a DICOM dataset/file
  - Drag-and-drop directories or instances to visualize the patient, study, series & instance hierarchy
  - Includes a simple DICOM image viewer for testing and development
  - Save image pixel data in another format (JPEG, GIF, BMP)
  - Apply filters to a DICOM dataset
- DICOMDIR Creator
  - Create DICOM media from a directory of DICOM datasets on disk
- DICOM Filter
  - Create, store and retrieve complex user-defined filters for modifying DICOM datasets
  - Apply filters to one or more datasets in an automated way
- Dictionary Finder
  - Look up information from the DICOM data dictionary, including values and meanings for tags, elements, and UIDs
- Study Generator
  - Automatically generates studies that can be echoed to the console, saved to the filesystem, or sent to a destination device
- PDF To Dicom
  - Choose one or more PDF files, enter header data from a configurable, pre-populated template, and save as a DICOM Encapsulated PDF dataset to the filesystem or store to a DICOM store server
- DICOM Indexer
  - Assists you in categorizing your repository of test data, creates a spreadsheet-based index of selected DICOM elements found in datasets residing in a directory hierarchy of DICOM datasets

## DICOM CLIENTS (SCUs) AND SERVERS (SCPs)

- Store Client and Server
- Verification Client and Server
- Modality Worklist Client and Server
- Query Client and Server

## COMING FEATURES

- DICOM Converter
  - DICOM to an alternate format: DICOM to PDF, etc.
- DICOM Anonymizer
  - Tool to assist with anonymizing DICOM datasets, series, or studies.
- IOD Validator and Study-Series Validator
  - Validates the contents of a dataset, study, or series against the requirements found in the DICOM standard
- Print Server
  - Emulates a printer and allows viewing of the data received by the application; application does not actually print data
- Print-to-PACS™
  - Allows you to store various non- DICOM content into a DICOM dataset
    - JPEG to DICOM secondary capture
    - MS Word document to DICOM secondary capture image or DICOM encapsulated PDF
- Storage Commitment SCU and SCP
  - Sends and receives storage commitment messages