

## Enhancing Dictation Reporting Workflow

Ultrasound is just one of the many imaging modalities that include quantitative measurements that are performed during the examination. Automatically incorporating such measurement data into the radiologist's report can improve clinical quality and productivity.

### Problems

- Manual entry of measurement data into an imaging report template for dictation.
- Inconsistent data presentation caused by varying modality vendor data formats.

### Solution Set

**Compass Dictation Integration Option**

**PowerTools™ - Suite of Standalone DICOM & HL7 Utilities**

### Benefits

- Increases the value of clinical reports by the inclusion of quantitative measurement data.
- Improves consistency by normalizing reported measurements, like converting cm to mm.
- Saves time by automating the inclusion of report data in a standardized format.
- Eliminates data entry and treatment errors that can be introduced by manual processes.
- Improves the efficiency of workflows, positively impacting the clinical process.

### Features

- Works with any modality that supports DICOM® Structured Reporting (SR).
- Provides flexible parsing, mapping, editing, and transformation of DICOM SR data into the appropriate dictation report template fields for systems from major vendors.
- Leverages the power of Compass Router to solve complex imaging workflow challenges that benefit from DICOM SR data management and DICOM tag morphing/coercion.
- Eases the identification and extraction of relevant SR report data fields by use of PowerTools utilities.

The Compass Dictation Integration Option enables parsing and mapping of DICOM SR data fields into your dictation report templates. Post-processing can be performed to modify, add, or remove the fields that are presented.

#### Supports many DICOM SR exam types, including:

- OB-GYN
- Vascular (Doppler Carotid, Renal, Abdomen)
- Thyroid
- Testicular
- BMD/DEXA

The flexibility and configurability of Laurel Bridge Software's enterprise imaging workflow solutions also provide support for custom or private DICOM SR formats and fields.

Compass Versions:	Portal	Basic	Direct	Standard	Pro
<b>Descriptions:</b>	Store & Forward to Central Compass (Hub & Spoke)	Store & Forward Limited nodes: no promiscuous	Direct Message Router	Store & Forward (Unlimited nodes)	Direct + Standard (no HL7)
<b>Configurations</b>					
Maximum # of Compass sources	1: promiscuous	6 combined	Unlimited	Unlimited	Unlimited
Maximum # of Compass destinations	1	6 combined	Unlimited	Unlimited	Unlimited
Number of failover Compass destinations	1	6 combined	N/A	Unlimited	Unlimited
Number of Compass routing rules	1	Unlimited	Unlimited	Unlimited	Unlimited
<b>Included Features</b>					
Secure transport (TLS 1.0, 1.1., 1.2)	✓	✓	✓	✓	✓
Compression (transfer syntax) conversion	✓	✓	✓	✓	✓
DICOM image routing priority	✓	✓	✓	✓	✓
Destination heartbeat sensing	✓	✓	✓	✓	✓
Windows service for automatic start on boot	✓	✓	✓	✓	✓
Web access	✓	✓	✓	✓	✓
Tag-morphing and filtering		✓	✓	✓	✓
Study anonymization (includes pixel overlay)		✓	✓	✓	✓
Hold queue – manual review & routing		✓		✓	✓
Automatic Order Generation (AOG) – from in-bound exam		✓		✓	✓
Trigger fetching of prior exams		✓		✓	✓
Multiplexed storage destinations		✓		✓	✓
Load balancing—DICOM-aware, may use study identifier			✓	✓	✓
All DICOM Message types (i.e., direct routing)			✓		✓
Federated Query/Query Spanning without filtering			✓		✓
<b>Optional (extra cost) – Features/Functions/Filters</b>					
HL7 message routing	\$	\$	\$	\$	\$
Non-DICOM file transport	\$	\$		\$	\$
Queryable internal study cache – temporary/transient				\$	\$
Federated Query/Query Spanning with filtering			\$		\$
Custom – filters, job actions, queries, lookups, mappings, etc.			\$	\$	\$
<b>DICOM SR data extraction</b>				\$	\$
<b>Dictation system integration</b>				\$	\$
Generate thumbnail images				\$	\$
Downtime order entry				\$	\$
Protocol / File-type translations – e.g., HL7 report to DICOM SC or encapsulated PDF, or to standalone PDF, etc.				\$	\$
<b>Minimum System Requirements for virtual or physical systems*</b>					
Windows operating system version (Standard/Server)*	10.0/2012	10.0/2012	10.0/2012	10.0/2012	10.0/2012
MS SQL Server version*	Express	Express	Express	Express*	Express*
Memory (RAM)*	8GB	8GB	8GB	16GB	16GB
Processor*	i5	i5	i5	i7	i7
Hard Drive/Storage (store ~2x the transient image cache)*	250GB	500GB	250GB	500GB	500GB
# of network (NIC) cards (Gigabit)*	1	1	1*	1*	1*
Supports high-availability (HA) configurations	Yes	Yes	Yes	Yes	Yes

\* Optional features, functions, and/or study volume may dictate server upgrades. MS SQL Standard and/or multiple NICs may be preferred for higher performance.