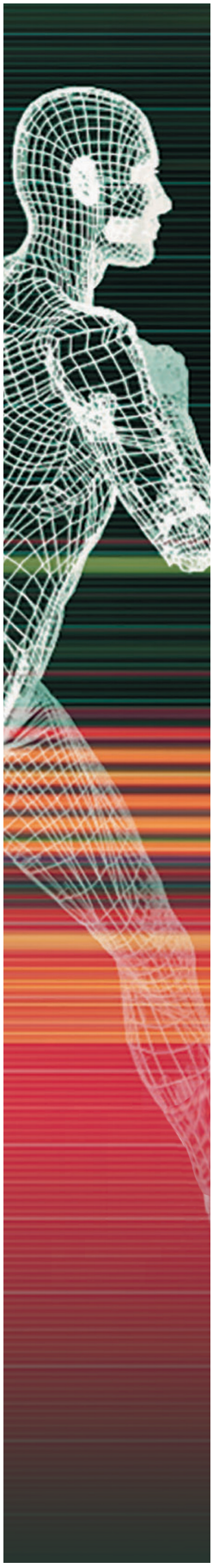
LAUREL BRIDGE

Orchestrating Medical Imaging Workflow

Compass™

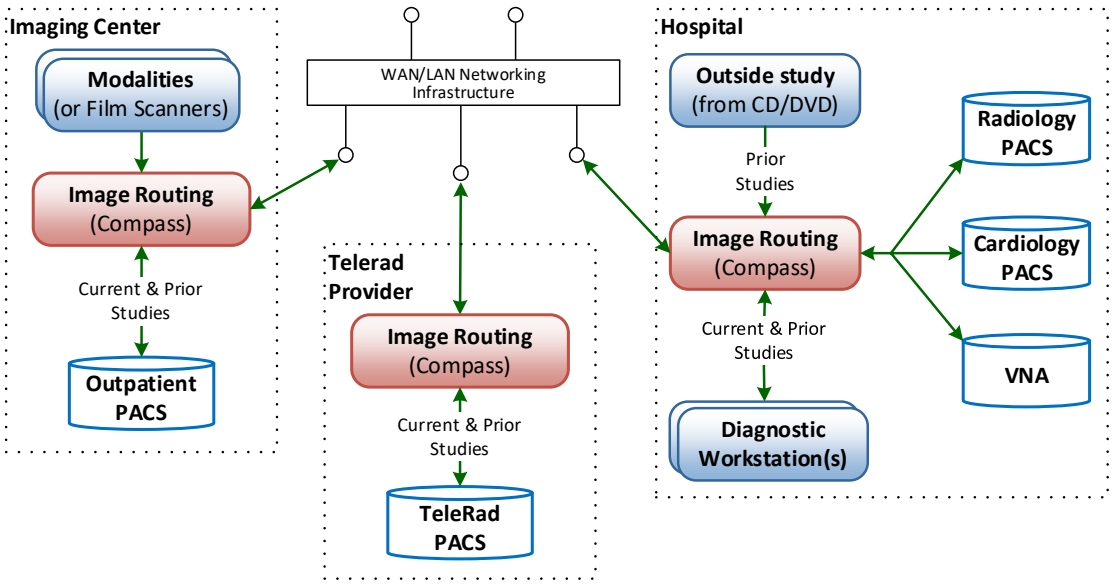
Routing Workflow Manager



Automate Imaging Workflow

- Route, replicate, monitor, schedule & modify DICOM, HL7, or non-DICOM data
- Support DICOMweb messaging
- Convert between traditional DICOM (DIMSE) and DICOMweb message types
- Support unlimited sources and destinations
- Connect incompatible devices with extensive tag morphing, filtering, compression, encryption, and transfer syntax conversion capabilities
- Secure web access to the Compass job table
- Route or multiplex DICOM images/messages based on any DICOM tag
- Use HIPAA compliant, secure, encrypted communication, and audit logging
- Schedule images to be forwarded when it makes sense for your business
- Automate failover and retries when destinations become unavailable
- Integrate events and actions with HL7 communications and events
- Drag-and-drop study import and route capability using “hot-folders”
- User accessible configuration, scripting, and customization
- Simplify modality management: store once to Compass, then to pre-defined destinations
- Queryable cache makes recent studies available for DICOM query access
- Support AI, dictation, anonymization, and related custom workflows
- Integrate with other Laurel Bridge workflow solutions

Solve these example and many other image storage workflows with Compass:



Compass Router Versions to meet your Workflow Scenarios

- **Direct** – Direct, in-line DICOM message router
- **Store & Forward** – Receive, store, and forward DICOM studies
- **Pro** – Compass with all core features enabled
- **HL7** – Compass for routing of HL7 messages only

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Compass Capabilities Matrix

Compass Versions:	Direct	Store & Forward	Pro
Features & Options **Descriptions:**	**DICOM Message Router**	**DICOM Image Router**	**All Core Features**
Maximum # of Compass sources & destinations	Unlimited	Unlimited	Unlimited
Number of failover Compass destinations		Unlimited	Unlimited
Number of Compass routing rules	Unlimited	Unlimited	Unlimited
DICOM DIMSE Store & Forward routing (DIMSE = traditional DICOM C-Store)	$	✓	✓
DICOM DIMSE Direct routing (all traditional DICOM DIMSE message types)	✓	$	✓
DICOMweb Store & Forward + protocol translation: DIMSE ↔ DICOMweb	$	$	✓
DICOMweb Direct routing + protocol translation: DIMSE ↔ DICOMweb	$	$	✓
Queryable internal study cache (max 300K instances, temporary storage)	$	$	✓
Queryable internal study cache (max 1M instances, temporary storage)	$	$	$
Secure transport (TLS 1.0, 1.1., 1.2)	✓	✓	✓
Windows service for automatic start on boot	✓	✓	✓
Web access	✓	✓	✓
Trigger fetching of prior exams	✓	✓	✓
Compression (transfer syntax) conversion	✓	✓	✓
DICOM image routing priority	✓	✓	✓
Destination availability monitoring & heartbeat sensing	✓	✓	✓
Tag-morphing and filtering	✓	✓	✓
Study anonymization (includes pixel overlay capability)	✓	✓	✓
Load balancing—DICOM-aware, may use study identifier	✓	✓	✓
Multiplexed storage destinations		✓	✓
Hold queue – manual review & routing		✓	✓
Automatic Order Generation (AOG) – from in-bound exam		✓	✓
Federated Query/Query Spanning without filtering	✓		✓
Federated Query/Query Spanning with filtering	$		$
HL7 routing (Note: *A standalone Compass HL7 version is available for HL7 routing only.*)	$	$	$
Non-DICOM file transport between Compass instances	$	$	$
Integrations and Customizations:			
DICOM SR & Dictation system integration		$	$
Analytics integration		$	$
Dose monitoring integration		$	$
AI workflow integration		$	$
Relevant priors fetching: Navigator – Imaging Retrieval Manager integration		$	$
Waypoint Consolidated Modality Worklist integration		$	$
Beacon Enterprise Study Q/C Manager integration		$	$
Lighthouse – Centralized Monitoring & Management Package integration	$	$	$
Customizations – specialized filters, job actions, queries, lookups, mappings, etc.	$	$	$
Custom file-type translations – example: convert HL7 reports to other formats		$	$

Compass System Requirements

- May be hosted on virtual or physical Windows standard or server systems.
- Requires MS SQL Server Express or Standard.
- Optional features, functions, and/or data volume may dictate host system upgrades.
- For detailed system requirements see User Manual, Chapter 2 at www.laurelbridge.com/products/compass/.

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