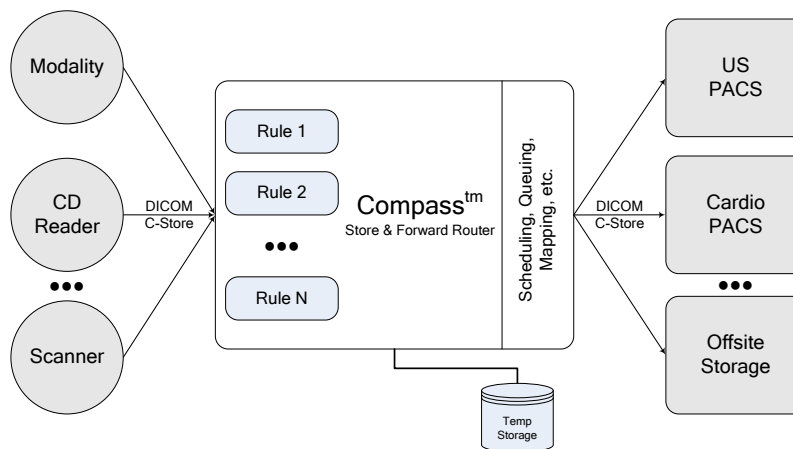


Compass allows the user to route, replicate, monitor, and optionally alter DICOM store jobs, all on a schedule of your choice.

Easily route or multiplex DICOM store jobs using powerful routing rules. Facilitate the interconnection of otherwise incompatible devices with custom filters. Simplify modality management: store to Compass, which can then selectively store the data to one or more pre-defined destinations. Schedule store jobs to be forwarded at the times that make sense for your business needs.

Tired of doing all this manually? Let Compass automate your workflow.



What DICOM Store related problems are you facing?

- *Want to route your data based on modality type or some other DICOM tag value?*
- *Problems changing the storage destination based on time-of-day or day-of-week?*
- *Have a modality that supplies bad values in certain DICOM tags? Want to fix them automatically?*
- *Can't use the latest JPEG transfer syntaxes with your modality or archive?*
- *Need to combine images sent on separate associations into a single association?*
- *Want to send studies to multiple locations without operator intervention?*
- *Need your off-site store jobs to be done after hours and automatically?*
- *Want to keep working while your archive is down for maintenance?*
- *Wish you had useful logging capabilities to diagnose DICOM communications problems? Need to automatically capture a log of error conditions?*
- *Want to add a new modality without adding a service call for your PACS?*

Solve these and many other DICOM store problems with Compass best-in-class capabilities.

Typical Scenarios:

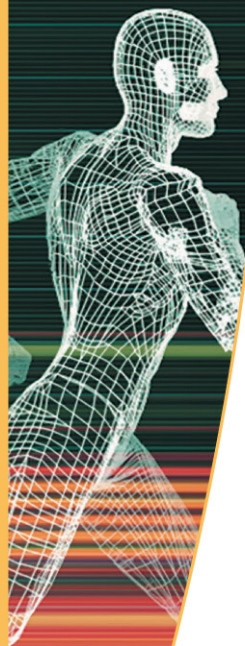
- Compass can act as a checkpoint where you control which studies enter your PACS. A rule can be defined so that any or all studies get routed to the Hold Queue, where they can be inspected. The study can then be sent to a destination, removed, or held until a later date.
- Compass gives the user the ability to assign priority levels to certain jobs. Higher priority jobs will be run before normal jobs for a particular destination.
- Compass' powerful display capabilities allow a user to easily find jobs of interest. Jobs in any state can be easily viewed and tracked, allowing the user to quickly determine any jobs' status.
- With Compass running at both endpoints, Compass' TOPS technology allows a user to greatly increase throughput, especially on WANs that typically have long round-trip transmission times.
- Suitable for deployment in high-availability scenarios.

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 PROBLEMS?

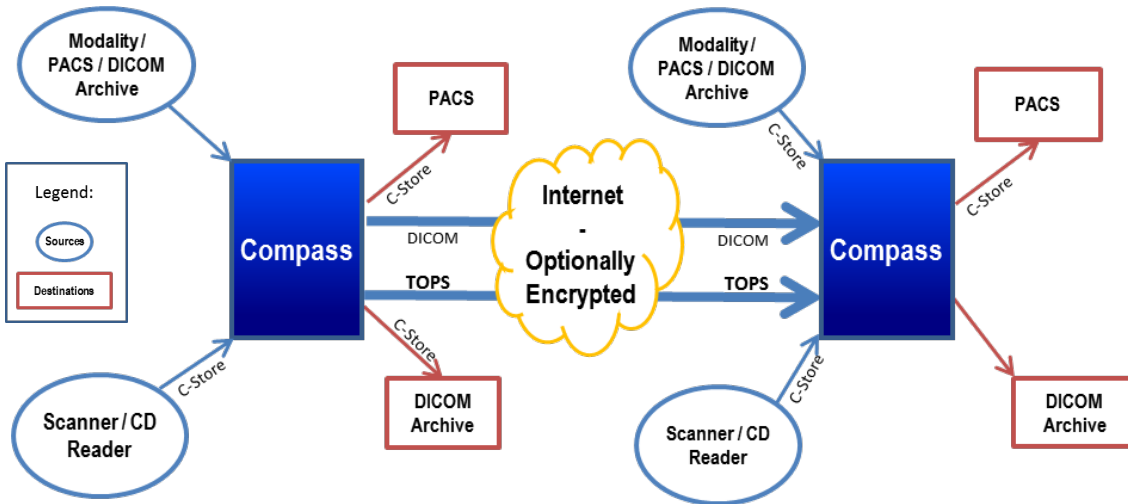
COMPASS™
 SWITCHBOARD™
 DICOM® ROUTING,
 FILTERING, LOGGING
 & CONNECTIVITY
 UTILITIES

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Product Features:

Dynamic Priority Routing	Provides more granularity for image routing priorities and workflow sequences. Priority levels increased from 2 to 10 levels; Compass adheres to enabled status, maximum association count, and schedule for destinations.
Destination Heart-Beat Sensing	Automatically monitors and detects availability of destination(s) and automatically routes images queued for such destination(s) when connected or re-connected.
Compass Basic	A flexible, limited-functionality, licensing option provides a more cost-effective solution for implementation scenarios with limited numbers of sources or destinations. <i>Compass Standard</i> supports unlimited endpoints.
Configuration options	Provides expanded flexibility for DIMSE message handling and logging.
Destination Status	Provides a simple, succinct view of all destination states.
Stable Study Time	Stable Study Time Interval has been increased to support handling very large images on slower connections. Stable-State Processing permits studies/images transmitted from a single source over multiple associations to be aggregated and transmitted over a single outbound association.
Custom filtering	Expanded to permit additional image-level, content-based filtering, tag-morphing, and routing.



Std. System Requirements:

- Windows XP, Server2003, or later
- May run under a virtual machine.
- Adequate hardware, typically Intel i5 processor or better
4 GB RAM (min.)
500 GB disk (min.)
1 or 2 network interfaces
- Microsoft SQL Server, Express version is included

High-Availability Configuration:

Standard Windows O/S cluster - Minimal configuration (typical):

- Windows Server2008 R2, or later
- Two matching computer systems
- Dedicated reliable, fault-tolerant, shared storage system

Compass Overview:

Windows Service	Allows automatic start or re-start of the application on system boot or reboot.
AE Title Pass-Through	Supports the “pass-through” of AE Titles from the source to the routed destination.
Study Priority Routing	Provides multi-level priority settings to efficiently manage and schedule outbound studies.
Email Notifications	Provides email notifications for job failures, low-disk space, or other events.
Hold Queue	Can route images into a local “hold queue” to support manual routing or deleting of selected images.
Logging & Reporting	Informative log entries and condition reporting are available on a per-source and per-destination basis.
User Interface	Provides patient/study demographic data access to help manage the flow of studies through Compass. Display is easily customized to show exactly what is desired or needed. Maintains “sent” jobs for a period of time to allow easy tracking of studies or to perform resends. Supports a simple, yet robust filtering mechanism to allow you to quickly find information of interest.
Association History	Shows a history of all incoming associations and their state.
Filters/Tag-Morphing	Per-source or per-destination tag filtering (morphing) or custom scripting.
Throughput Optimization Protocol Service - TOPS & TOPS+	When sending images from one Compass router to another, the TOPS protocol enhancement can be used to greatly increase throughput, especially on slower, high-latency network links. Allows interrupted jobs to pick up where they left off, instead of requiring resending the entire study again. Optionally uses an SSL encrypted connection, negating the need for a separate VPN connection. Benchmark test results indicate a five (5) to eleven (11) times improvement using TOPS, compared to using standard DICOM communication. TOPS+ further enhances communication over Wide Area Networks (WANs).

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