

Automate Imaging Workflow

A robust priors fetching solution that orchestrates the movement of relevant priors from any number of sources to any number of destinations.

- Manage & automate priors selection and distribution
- Support unlimited DICOM sources & DICOM destinations
- Monitor unlimited trigger sources: HL7, modality worklists, DICOM store events, or utilize custom triggers—for example, nightly DB queries or manual events
- Support complex priors selection and routing requirements
- Web browser-based, user managed configuration and monitoring
- Role-based user access & authentication control
- Audit trail logging for access and data modifications, HIPAA compliant
- Powerful configurable scripting & filtering options
- Exam-centric workflow logging
- Integrate seamlessly with Compass image routing solution for advanced study processing, tag morphing, routing & scheduling
- View status of all configured DICOM devices
- Multiplexes DICOM query & move requests
- Aggregate, filter & consolidate DICOM query responses

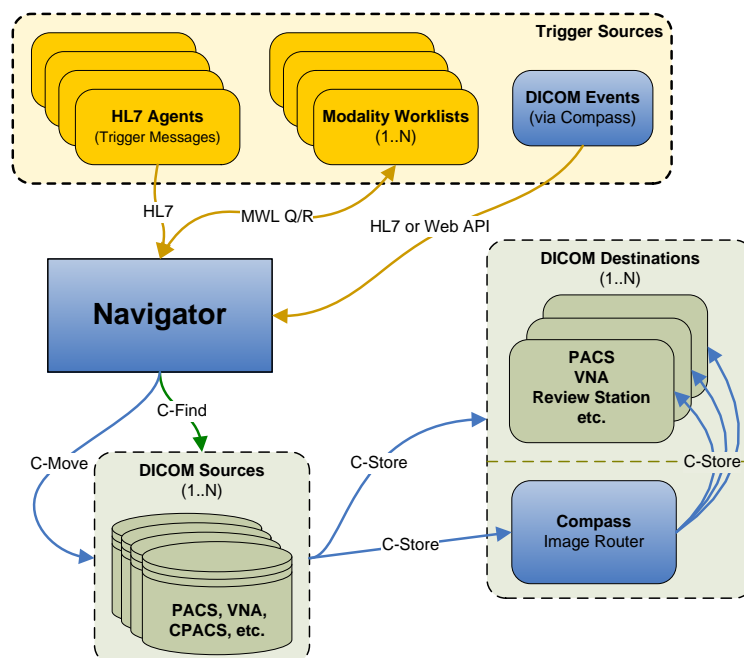
Example Priors Fetching Workflows

Fetching Triggered by HL7 or Worklist

1. Receive HL7 message w/patient info
Poll modality worklist (MWL) for new patients
2. Extract exam information
3. Query sources for priors
4. Identify relevant priors
5. Issue move commands

HL7 Trigger caused by DICOM Store

1. Compass receives new study/exam
2. Extract exam information
3. Create HL7 message
4. Send HL7 trigger message to Navigator
5. Compass continues processing exam



Navigator & Compass – Automating Imaging Workflow

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A Compass DICOM router option allows devices and users to access multiple DICOM worklists, repositories, and servers by sending a single request to Compass, which will multiplex DICOM query and move requests to the configured devices.

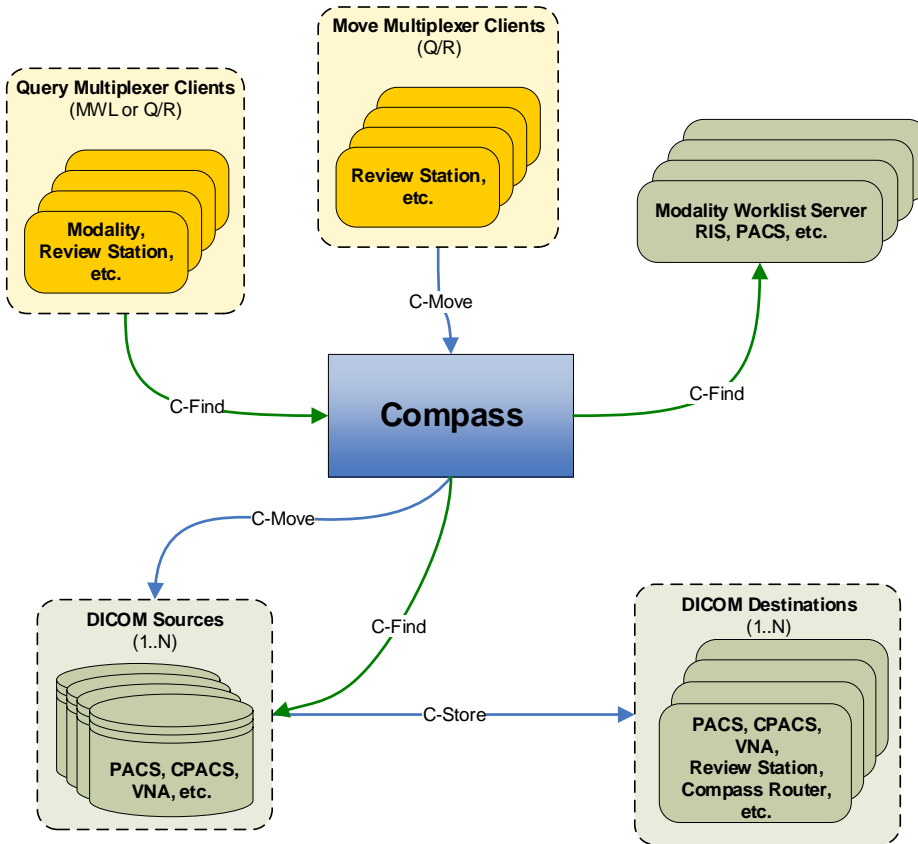
Examples - Query & Move Multiplexing Workflows

Query Multiplexer (Query Spanning)

1. Device issues DICOM query request to Compass
2. Compass queries many sources
3. Compass consolidates the query results
4. Compass returns query results to the requester

Move Multiplexer (Example w/pre-move query)

1. Device issues DICOM move request to Compass
2. Compass queries many sources
3. Compass consolidates the query results
4. Compass identifies the appropriate sources
5. Compass issues move commands



System Requirements (typical):

- Windows 7 or Server 2008 R2 or later
- May run on a virtual machine
- Adequate hardware; typical:
Intel i5 processor or better
4 GB RAM (min.)
500 GB disk (min.)
1 or 2 network interfaces
- Microsoft SQL Server 2008 R2 SP2 x64 or later (or Express version)

High-Availability Configuration:

HA virtual machine or Standard Windows Failover Cluster - Minimal configuration:

- Windows Server 2008 R2, or later
- Matching computer systems
- Dedicated, reliable, fault-tolerant, shared storage system