

## Image Exchange Reference Guide

### What is the Image Exchange Tool?

- CRISP DC's image-sharing tool allows authorized users to view patient images in full diagnostic quality, their associated reports, and prior images (i.e., image worklist) through the CRISP Portal or the InContext app within an EMR.
- To participate as an Image Exchange contributor (share images with the HIE community), an organization must share radiology reports as well.

### Who typically uses the Image Exchange tool?

- Clinicians (ED, specialists, inpatient teams) who need fast access to prior imaging to inform treatment decisions.
- Radiology/PACS teams, medical records/film library staff who need to query and retrieve external studies for continuity of care.
- Care teams from other organizations providing consultations or second opinions.

### Core Capabilities:

- **View both images** and the corresponding radiology/cardiology **reports**.
- **Compare** images and corresponding radiology/cardiology reports **across participating organizations** – up to 20 years of prior imaging may appear in the Imaging Worklist (depending on contributor participation).
  - Side-by-side comparison: select **up to four images to view and compare for a single patient**.
- **Filter/search** the Imaging Worklist by location, study date, description, or modality **to quickly find relevant studies**.
- Transfer DICOM studies to your local PACS with just a click (access is controlled by your PACS administrator).
  - Ability to customize metadata: **update MRN or accession number** before transfer when appropriate.

### Built-in Collaboration:

- **Collaborate in real-time** for consultations, second opinions, and teaching/rounds.
  - One-click collaboration sessions: users located at different organizations can **look at images at the same time** to discuss care team coordination in real-time.
- View the same image at the same time: users can **view and manipulate images together** in real time (e.g., zoom, pan, flip/rotate, markups).

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### Security, Performance, and Access:

- **Secure viewing:** no PHI is stored on the local device during image viewing.
- **No local application install required:** Browser-based access designed for ease of community-wide image sharing.
- **Scalable to support high concurrency:** High performance even over slower connections.
- **Supports:** Any DICOM formatted images, modalities may include **X-ray (XR), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound (US), Nuclear Medicine (NM), Positron Emission Tomography (PET), Digital Radiography (DR), Mammography (MG), Angiography (XA) and Endoscopy (ES) and Electrocardiogram (EKG)**. Any Electrocardiogram (EKG) that may not be stored in DICOM format can be transformed into a PDF DICOM image.
- **Full diagnostic quality viewer:** FDA 510(k) Class II medical device capability.

### How to access the Image Exchange Tool:

- **CRISP DC Portal:** Log in → search for patient → Clinical Information → Radiology sub-tab → open report row and/or click the camera icon to launch the viewer.
- **InContext:** Log into EHR → launch HIE InContext → select best-matched patient → navigate to Radiology to open reports/images.
  - From either CRISP DC Portal or InContext, access the Imaging Worklist: From the clinical view, select Imaging Worklist to view priors, use filters to narrow selection, select studies to compare or transfer (if authorized).

Questions or need support? Image Exchange is a free tool available through the CRISP DC Portal at [portal.crispdc.org](http://portal.crispdc.org) and through your EHR via the CRISP InContext application.

For additional support and training, please contact [dcoutreach@crispdc.org](mailto:dcoutreach@crispdc.org) or visit our website at [crispdc.org/image-exchange](http://crispdc.org/image-exchange).