Enterprise Imaging 8.2.2 Customer Release Notes

AGFA HealthCare

Contents

1. About Enterprise Imaging

Enterprise Imaging, Agfa HealthCare delivers a completely unified imaging IT platform that contains PACS, reporting and speech recognition, interfaces, advanced image processing clinical applications, zero footprint web viewing, VNA, RIS, and business intelligence tools.

Highlights of Enterprise Imaging

- Single platform, single database
- Consistent and intuitive user interface across all desktops and viewers
- Flexible hanging protocols and fully embedded clinical tools
- Fully customizable task-based workflow
- Seamless collaboration framework across the entire solution
- Structured Reporting, including key images and measurements
- Powerful clinical universal viewer (XERO Viewer)

Highlights of Enterprise Imaging 8.2.2

Cardiology

- TOMTEC LOT51.06 updates are available within Enterprise Imaging
- Change the report language when starting a report or addendum
- Improved 2D navigation linking for CT axial slices
- Easy comparison study filtering now available in the Text area

Radiology

- Change the report language when starting a report or addendum
- Improved 2D navigation linking for CT axial slices
- Easy comparison study filtering now available in the Text area

Enterprise Workflows

- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems
- Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems
- Simplified and streamlined creation and management of Peer Learning workflows

Enterprise Imaging VNA

- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems

XERO Xtend

- Use the KIN panel to see all available key image notes
- Find images faster and improve productivity with the Key images button
- Customize the organization of Hanging protocols in XERO Xtend
- New image set navigation buttons are available in XERO Xtend
- Full fidelity viewing now available in XERO Xtend
- Manage your keyboard shortcuts in XERO Xtend
- Enhanced zoom functionality in XERO Xtend
- Snapshots can be created in XERO Xtend and viewed in the Snapshot gallery
- Advanced cine functionality is available in XERO Xtend

XERO Workflow

- Compare active and relevant prior studies using the Clinical sidebar in XERO Workflow
- Use labels in XERO Workflow to manage and organize studies and lists
- Customize themes for different XERO Workflow profiles
- Customizations, such as screen layout and display mode added for supported integrations in XERO Workflow
- Receive notifications of new images in XERO Workflow
- Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems
- New search criteria improves searching for patients and studies
- Task and cycle lists refresh automatically
- New hanging profile options available for XERO Workflow

Business Intelligence

- Improved usability of the Text search dashboard

System Administration

- Improved patient data management with better handling of DICOM values
- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems
- Improved policy management for application FQDN
- Audit Record Reports: Configurable instance level auditing now available in Administrator Desktop

Platform

- Streamlined support for JPEG 2000 transfer syntaxes
- Upgrade compatible Enterprise Imaging Web Server versions without downtime

View an HTML version of the Customer Release Notes in a browser

Supported languages

* Also available for Enterprise Imaging Administrator Desktop Online Help

Based on market changes, the Enterprise Imaging user interface and documentation are no longer translated into the following languages: Simplified Chinese, Turkish, Slovak, Bosnian, Croatian, Serbian, and Lithuanian. Sites using the language sets no longer supported will have their solution converted to English when they upgrade.

	Enterprise Imaging Desktops		CD Viewer	XERO Viewer		Enterprise Imaging Business Intelligence	
	GUI	Online help (end user)	GUI and cuecard	GUI	Online help	GUI	Report Guide
Czech	●			●		●	
Danish	●	●	●	●	●	●	●
Dutch	●	●	●	●	●	●	●
English (UK)	●			●	●	●	●
English (US) (source)	●	●	●	●	●	●	●
Finnish	●	●	●	●	●	●	●
French	●	●*	●	●	●	●	●
Georgian	●	●		●	●	●	●
German	●	●*	●	●	●	●	
Greek	●	●	●	●	●	●	●
Hungarian	●			●		●	
Italian	●	●	●	●	●	●	●
Norwegian	●	●	●	●	●	●	●
Polish	●	●	●	●	●	●	
Portuguese (Portugal)	●			●	●	●	
Russian	●	●*	●	●	●	●	●
Slovenian	●			●		●	
Spanish	●	●	●	●	●	●	●
Swedish	●	●	●	●	●	●	●

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Note: This software complies with the requirements of the MDR Regulation (EU) 2017/745.

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Intended audience

This help system is intended for healthcare professionals who have received training for the use of this product.

Users are considered as the persons who actually handle the system as well as persons having authority over the system.

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- No software other than that which is distributed with this package or is validated by AGFA as compatible will reside on the AGFA HealthCare Enterprise Imaging computers.

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2. Service Lines

Discover new features and functionality available in AGFA HealthCare Enterprise Imaging including Breast Imaging, Cardiology, Molecular Imaging, Radiology, and Women's Imaging.

Cardiology

- TOMTEC LOT51.06 updates are now available within Enterprise Imaging
- Change the report language when starting a report or addendum
- Improve 2D navigation linking for CT axial slices
- Easy comparison study filtering now available in the Text area

Radiology

- Change the report language when starting a report or addendum
- Improve 2D navigation linking for CT axial slices
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Cardiology

AGFA HealthCare Enterprise Imaging for Cardiology delivers a consolidated imaging ecosystem that speeds up image acquisition and retrieval, and enhances the delivery of patient care.

These features and enhancements supporting Cardiology are available in Enterprise Imaging 8.2.2:

Desktops

- TOMTEC LOT51.06 updates are now available within Enterprise Imaging
- Change the report language when starting a report or addendum

Image area

- Improved 2D navigation linking for CT axial slices

Text area and reporting

- Easy comparison study filtering now available in the Text area

Desktops

TOMTEC LOT51.06 updates are available within Enterprise Imaging

TOMTEC version LOT51.06 is available within the Enterprise Imaging solution. The upgrade of TOMTEC IMAGE-COM and TOMTEC REPORTING enables support for Windows 11.

Change the report language when starting a report or addendum

Significantly speed up reporting workflow in a multi-lingual context. Report authors no longer have to log out and log in to Enterprise Imaging again as a different user (with a different report
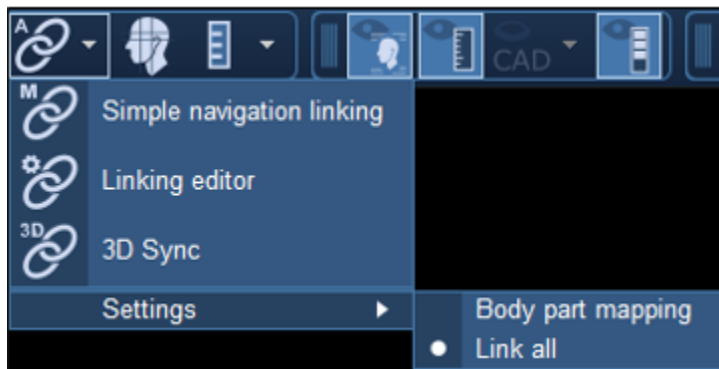
structure) to change the reporting language. When speech recognition is used and multiple languages are available to the user that is logged in, the user can change the report structure and report language to match the referring physician and patient language directly in the Text area.

Image area

Improved 2D navigation linking for CT axial slices

A new automatic navigation linking mode is available that aligns series across studies to minimize the need for manual correction of the offset. Driven by an AI algorithm for body part recognition, the automatic navigation linking mode can be set to only link series with the same body part. This is a considerable efficiency increase when navigating through multiple series of a complex study. Manual correction is still available if required.

Figure: Select body part mapping from the linking mode

Text area and reporting

Easy comparison study filtering now available in the Text area

Comparison studies can now be filtered using drop-down options and search fields above the comparison studies list (Comparison or All studies tab), allowing users to display only relevant comparison studies. Relevancy rules can also be applied to the filter results by selecting the Relevant only checkbox.

Figure: Click the filter icon to display the relevant comparison studies

Radiology

Combined with its powerful workflow engine and intuitive use, Enterprise Imaging helps you maximize productivity for radiology and beyond.

These features and enhancements supporting Radiology are available in Enterprise Imaging 8.2.2:

Desktops

• Change the report language when starting a report or addendum

Image area

• Improved 2D navigation linking for CT axial slices

Text area and reporting

• Easy comparison study filtering now available in the Text area

Desktops

Change the report language when starting a report or addendum

Significantly speed up reporting workflow in a multi-lingual context. Report authors no longer have to log out and log in to Enterprise Imaging again as a different user (with a different report structure) to change the reporting language. When speech recognition is used and multiple languages are available to the user that is logged in, the user can change the report structure and report language to match the referring physician and patient language directly in the Text area.
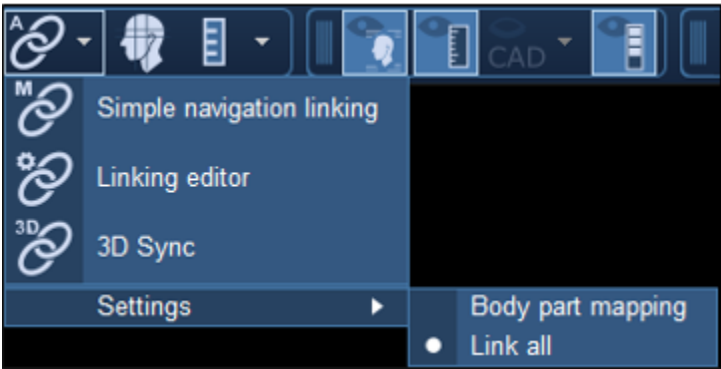
Image area

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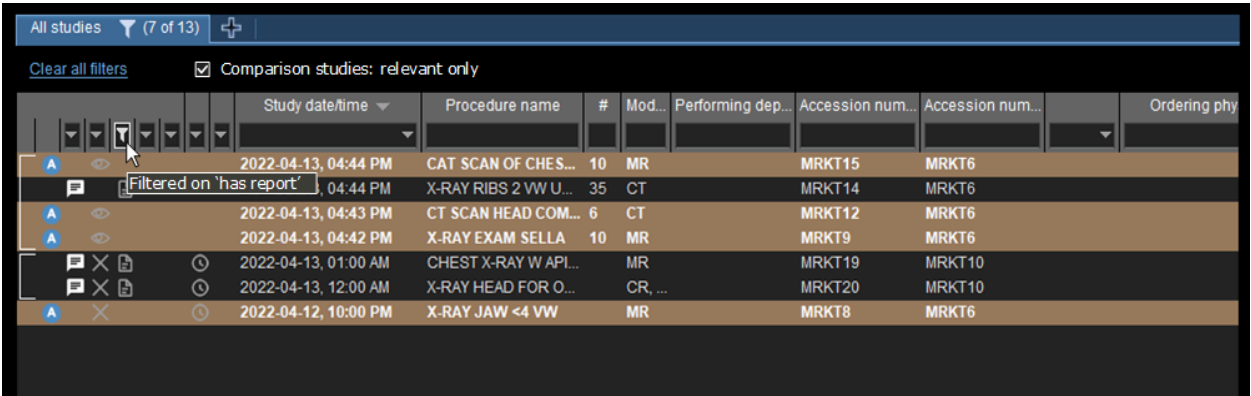**Figure: Select body part mapping from the linking mode**

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Figure: Click the filter icon to display the relevant comparison studies

3. Collaboration and Mobility

Simplify your IT landscape and improve collaboration between departments, disciplines, and hospitals using functionality and features for Enterprise Workflows, Enterprise Imaging, andXERO Workflow.

These features and enhancements supporting collaboration and mobility are available in Enterprise Imaging 8.2.2:

Enterprise Workflows

- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems
- Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems
- Simplified and streamlined creation and management of Peer Learning workflows

Enterprise Imaging VNA

- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems

XERO Xtend

- Use the KIN panel to see all available key image notes
- Find images faster and improve productivity with the Key images button
- Customize the organization of Hanging protocols in XERO Xtend
- New image set navigation buttons are available in XERO Xtend
- Full fidelity viewing now available in XERO Xtend
- Manage your keyboard shortcuts in XERO Xtend
- Enhanced zoom functionality in XERO Xtend
- Snapshots can be created in XERO Xtend and viewed in the Snapshot gallery
- Advanced cine functionality is available in XERO Xtend

XERO Workflow

- Compare active and relevant prior studies using the Clinical sidebar in XERO Workflow
- Use labels in XERO Workflow to manage and organize studies and lists
- Customize themes for different XERO Workflow profiles
- Customizations, such as screen layout and display mode added for supported integrations in XERO Workflow
- Receive notifications of new images in XERO Workflow
- Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems
- New search criteria improves searching for patients and studies
- Task and cycle lists refresh automatically
- New hanging profile options available for XERO Workflow

Enterprise Workflows

Across departments, disciplines, and hospitals, Enterprise Workflows use theEnterprise Imaging Platform and powerful workflow engine technology, to meet your specific needs for information exchange, productivity, collaboration, education, teleworking, and more.

These features and enhancements supporting Enterprise Workflows are available in Enterprise Imaging 8.2.2:

Automatically fix studies using order-based identifiers to accommodate systems that require them

When an incoming study matches on patient ID and accession number, but not on study UID, Enterprise Imaging can now be configured to perform an auto-fix that assigns it the order-based study UID or the modality-based study UID.

Previously, modality-based study UIDs were always used when fixing study data. However, certain HIS/RIS do not support modality-generated study UIDs.

To accommodate these systems, administrators can configure Enterprise Imaging to apply order-based study UIDs instead. To ensure that auto-fixes are not applied too aggressively — for example, to studies still queued when an ORM update arrive — administrators can set whether Enterprise Imaging is allowed to perform automatic QC fixup, and if so, how long to wait before updating the study UID.

Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems

When updating study demographics to match procedure information from the RIS, Enterprise Imaging previously retained the study's existing instance UID. External systems such as VNAs that are strictly compliant with the DICOM standard require that all instance UIDs be unique. They will therefore reject fixed studies with reused instance UIDs.

To better support strictly compliant systems, Enterprise Imaging can be configured to generate new instance UIDs for fixed studies. When so configured, IOCM incorrect modality worklist rejection notes are generated for the original study, rather than IOCM data retention expiry notes. Using these types of rejection notes ensures that DICOM compliant systems reject the original study and replace them with copies that have new instance and series UIDs.

Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems

Shared Reading Workflows make it possible to distribute workload between hospitals and allows you to benefit from the expertise of a particular hospital that had a specific area of medicine.

The Shared Reading Workflow has been extended to provide radiologists the ability to perform remote multi-procedure readings. This includes support for Enterprise Imaging desktops and through XERO Workflow.

Additionally, automatic study linking and manual unlinking provide your users with additional flexibility in performing their reading tasks.

Simplified and streamlined creation and management of Peer Learning workflows

The Peer learning workflow has been updated through the implementation of new features designed to streamline and simplify the creation and management of peer learning workflows. These features include:

- Customize how your users create a case in Enterprise Imaging to accelerate their workflow.
- Simplify case creation by automatically assigning case review tasks to the reading physician through case review tasks.
- Guarantee confidentiality of Peer Learning workflows by only showing the corresponding information in the Peer Learning panel. This also prevents it from being shown in XERO Workflow.

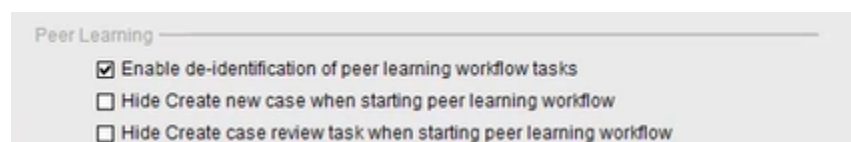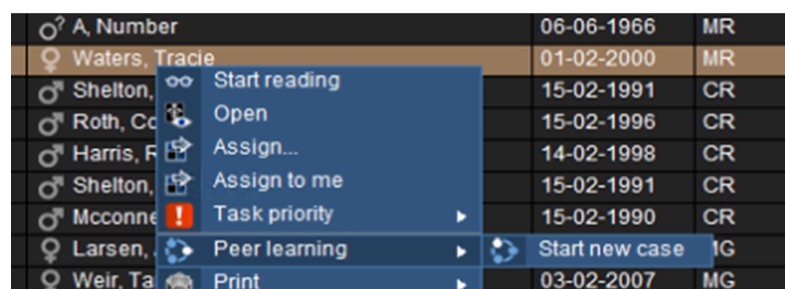**Figure: Simplify your workflow by customizing how to create a case**

Figure: Customize the new case menu options

Enterprise Imaging VNA

When deployed as a VNA, AGFA HealthCare Enterprise Imaging offers centralized storage management that is both scalable and reliable. The VNA also enables sharing of patient imaging data across disparate PACS systems, whether they are other Enterprise Imaging instances or third-party PACS systems.

These features and enhancements supporting Enterprise Imaging VNA are available in Enterprise Imaging 8.2.2:

Automatically fix studies using order-based identifiers to accommodate systems that require them

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XERO Xtend

Adding advanced imaging capability to XERO Viewer, XERO Xtend gives clinicians more access with speciality tools and additional functionality.

These tools and functionality include:

- Powerful clinical tools and specific hanging protocols.

- Advanced viewing tools similar to functionality found on the diagnostic desktop.

- Specialized tools include MIP/MPR/3D reconstructions, orthopedic measurements, breast imaging layouts and ultrasound viewing tools, enabling specialists to review studies before, during and after interventions.

- Easy, live collaboration, chat and sharing functions that enhance cooperation between peers, and support multi-disciplinary communication.

These features and enhancements supporting XERO Xtend are available in Enterprise Imaging 8.2.2:

Use the KIN panel to see all available key image notes

XERO Xtend users can now see a quick overview of the important images in a loaded study using the key image note (KIN) panel. Located in the clinical sidebar and styled after the Diagnostic desktop, the KIN panel is designed to improve accessibility and productivity.

Figure: Use the KIN panel to review key image notes
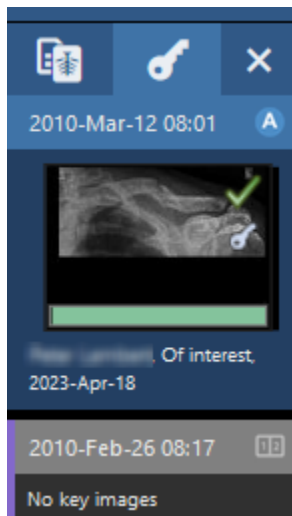
Find images faster and improve productivity with the Key images button

Using the Key images button, you can quickly view all the key images available to the study currently open in the Image area. You can configure the default key image type as well the tools to automatically create key images for.

Figure: Configure automatic key image creation using the user options
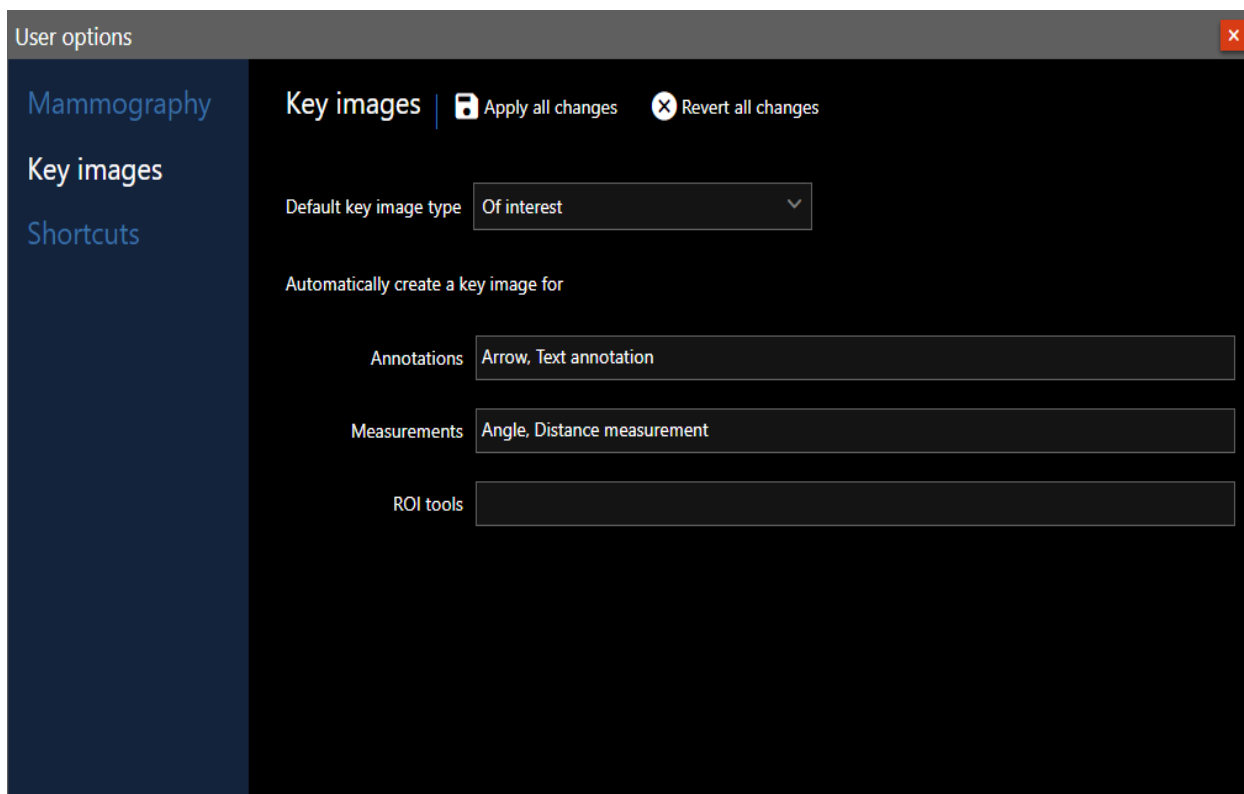
Customize the organization of Hanging protocols in XERO Xtend

XERO Xtend users can now adjust handing protocols within the hanging protocol gallery to customize their workflow to suit their needs.

Using the context menu, hanging protocols and presentation groups can be copied, moved or deleted within the hanging protocol gallery. Additionally, QC presentation groups and key image note (KIN) hanging protocols can be adjusted but not deleted.

Figure: Use the Hanging protocol gallery to modify Hanging protocols and presentation groups
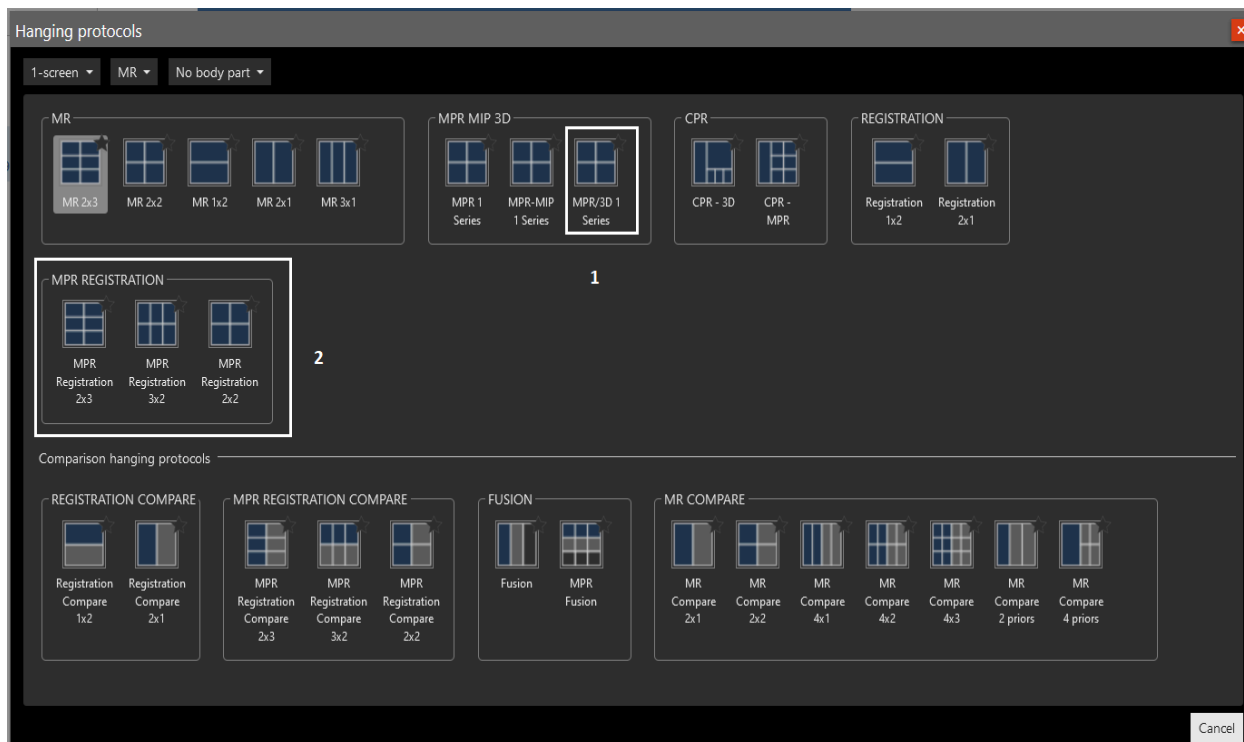
New image set navigation buttons are available in XERO Xtend

Using the new buttons, navigate to the next or previous set of images that matches the selected viewport of the current hanging protocol. The new navigation buttons are available in the top toolbar.
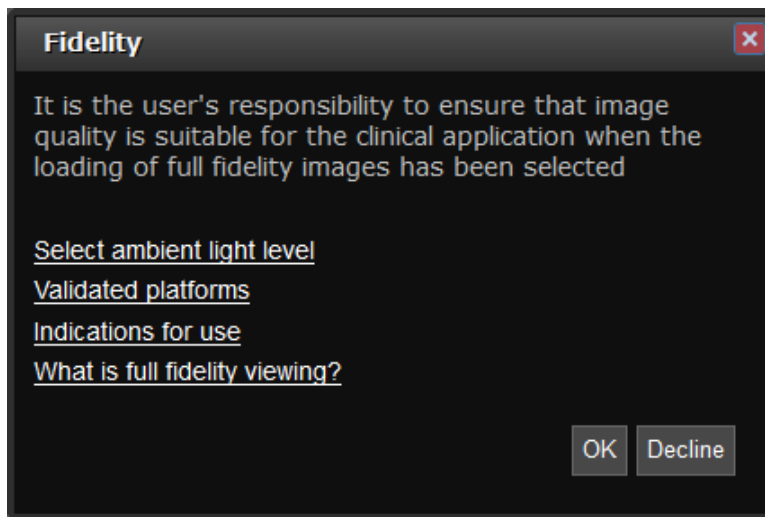
Figure: Use the previous/next buttons to navigate through image sets
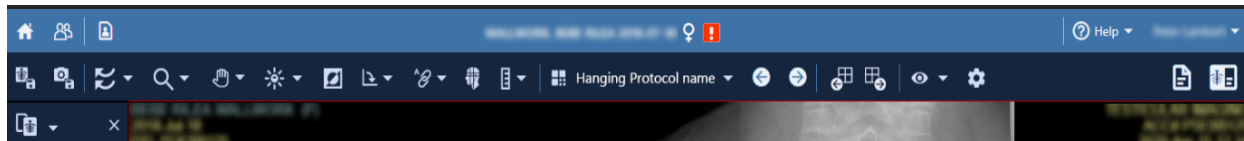
Full fidelity now viewing available in XERO Xtend

Studies can be viewed in full fidelity while using XERO Xtend with XERO Workflow. When full fidelity is enabled, the user receives a dialog providing supporting information about fidelity.

Figure: The full fidelity dialog informing users

Manage your keyboard shortcuts in XERO Xtend

You can configure the keyboard shortcuts for the Image area in XERO Xtend. Changes are stored at the user level, so your keyboard shortcuts are also available in the Enterprise Imaging desktops. View the available actions for keyboard shortcuts in the user options.

Figure: The shortcut menu can be configured from User options
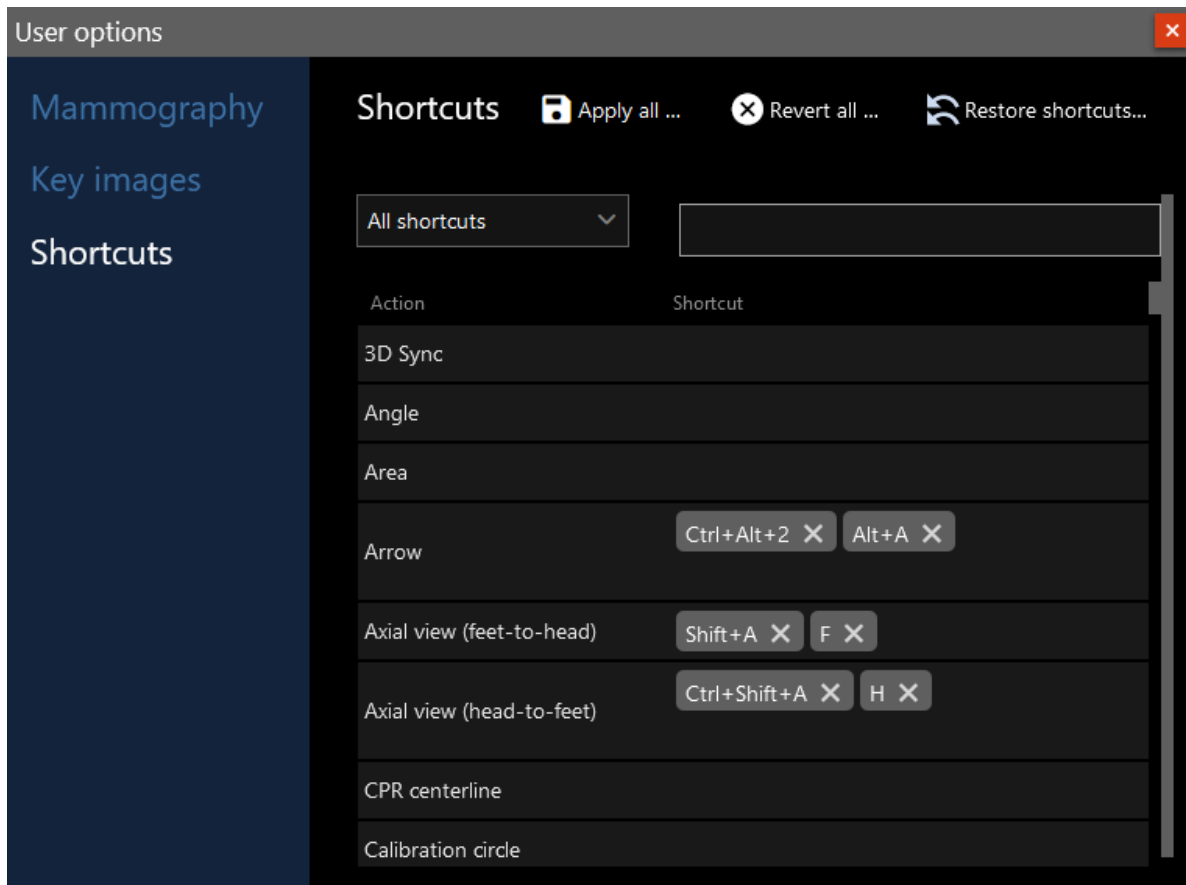
Enhanced zoom functionality in XERO Xtend

You can magnify specific regions of interest with the zoom lens tool and configure the magnification settings to meet your workflow preferences. Activate the zoom lens from the top toolbar or the context menu.
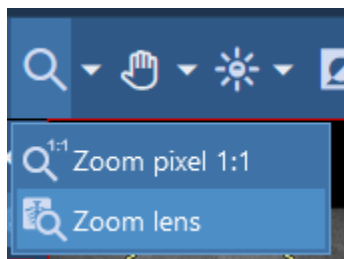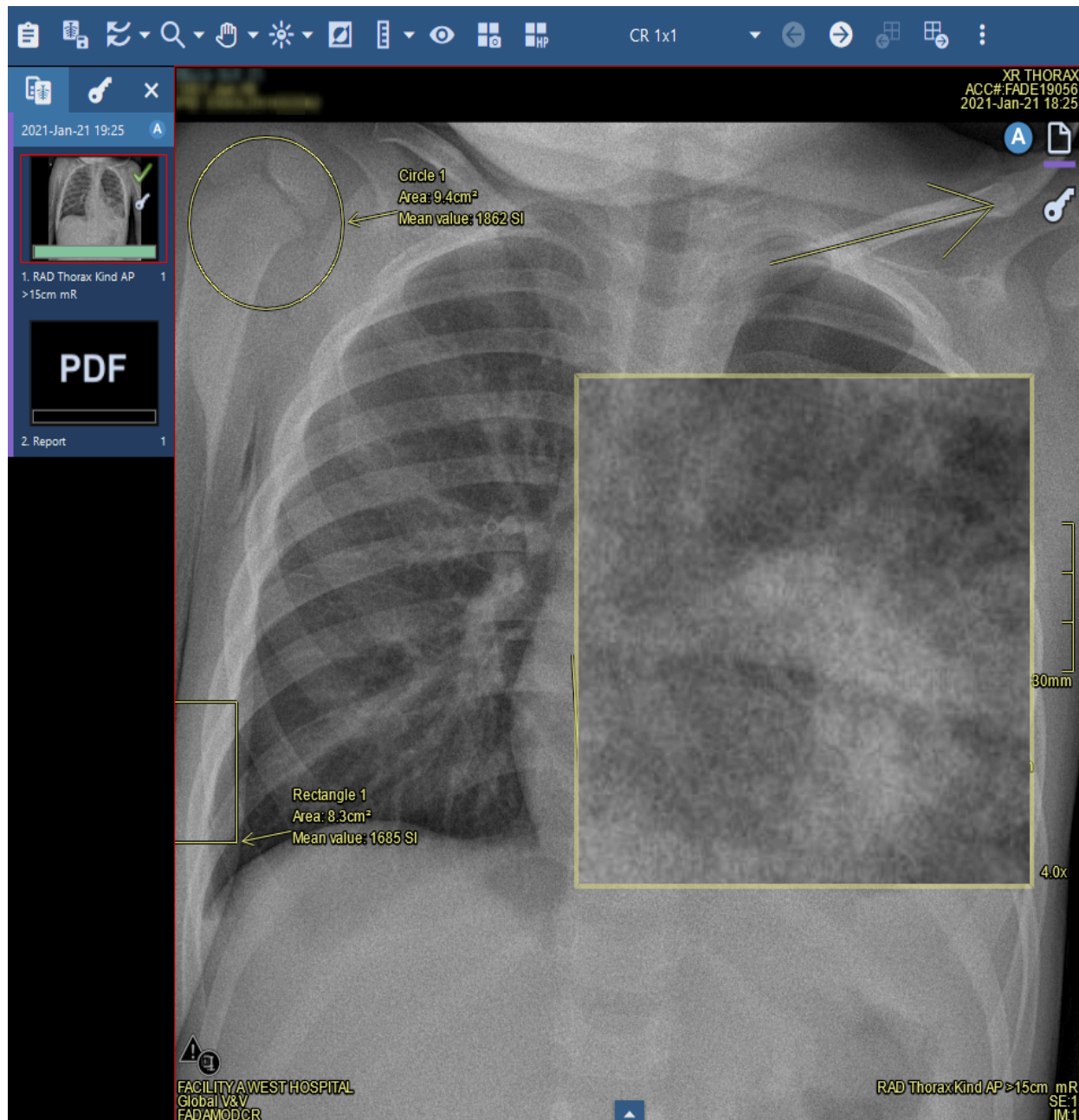
Figure: Select the zoom lens tool from the top toolbar

Figure: Use the zoom lens tool to magnify areas of interest

Snapshots can be created in XERO Xtend and viewed in the Snapshot gallery

You can create snapshots in XERO Xtend. An image snapshot stores the state of images in the Image area and allows you to return the Image area to the same state later. This includes the current state of the Image area layout, shown images, content of the Clinical sidebar, linking of the viewports, markups, calibration, and so forth.

The Create snapshot button is available in the Image area toolbar and in the snapshot gallery. If no active snapshot session exists, a new session is created.

Figure: Select the Create snapshot button in the Image area

A snapshot gallery is available in XERO Xtend. The Snapshot gallery shows all available snapshots for the currently selected study.

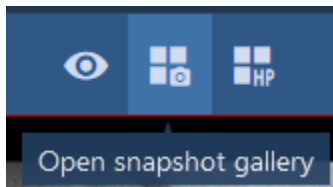**Figure: Select the snapshot gallery button in the Image area**

Figure: Select the snapshot gallery button in the Image area

Advanced cine functionality is available in XERO Xtend

Review your data sets using cine in XERO Xtend. The following functionality is available:

- Display selected cine speed.
- Set cine speed.
- Set the view to Factor or FPS.
- Navigate to next or previous frame.
- Navigate to first or last frame.
- Set the playback mode: Rock, Loop, or Single.

Figure: Basic playback functionality lets control cine playback on any viewport

Figure: Open the advanced playback functionality to take advantage of the extended functionality

Figure: The warning symbol indicates if the playback speed differs from the specified speed

XERO Workflow

XERO Workflow provides medical professionals, specifically clinicians and physicians, with a secure, web-based access to an overview of tasks, studies of interest, and scheduled conferences using a standard web browser.

XERO Workflow is best suited for medical professionals such as clinicians and physicians who are frequently on the move within or outside of the hospital environment and who do not necessarily have access to the standard Enterprise Imaging desktop applications. These users require a fast and flexible way to consult patient data, reports and images to support them in a variety of activities, for example:

- viewing their own task and study lists, or those of colleagues
- viewing the details of conference lists
- searching for a patient, and viewing their active and comparison studies
- viewing diagnostic reports for a patient, and adding ad-hoc comments to the corresponding study details
- viewing images using the integrated XERO Viewer, or the XERO Viewer extended viewing tools (if a license is available).
- adding studies to a conference, and viewing conference comments

These features and enhancements supporting XERO Workflow are available in Enterprise Imaging 8.2.2:

Compare active and relevant prior studies using the Clinical sidebar in XERO Workflow

By using the Clinical sidebar to compare active studies with the patient relevant prior studies while performing reporting tasks, users can get a better look at all the information available.

XERO Workflow users can configure how study and tasks are displayed in the Clinical sidebar. The following options are available:

- Display active images
- Display active images and add comparison images to Clinical sidebar

Use labels in XERO Workflow to manage and organize studies and lists

Users can create labels and use them to manage personal lists. By adding them to studies users can collect and categorize studies of interest for research, publication, or other purposes, and find them later.

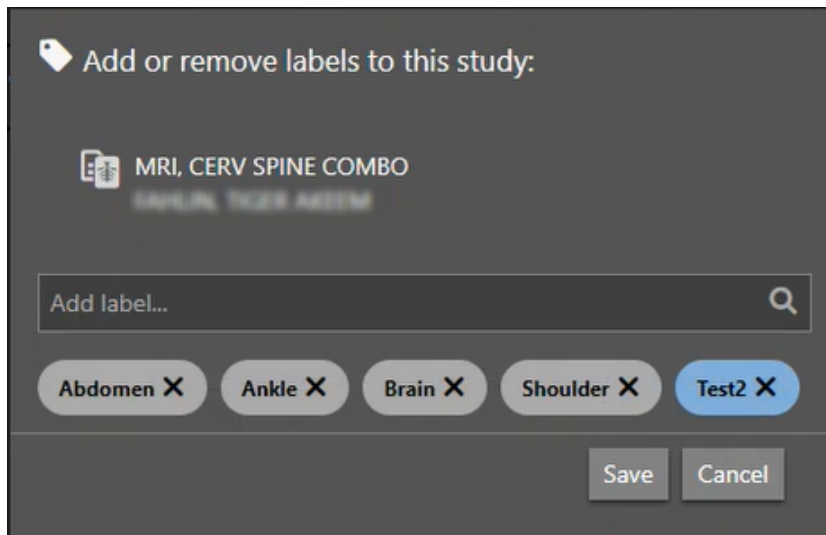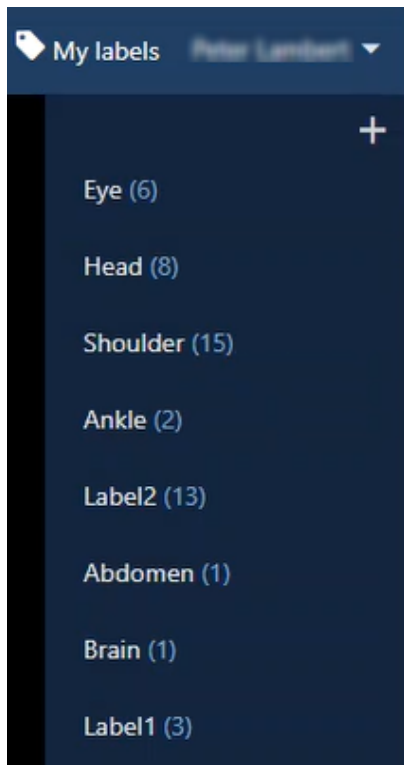**Figure: Easily add or remove labels to studies**

Figure: Use the My labels panel to organize your labels and find the studies they have been added to

Customize themes for different XERO Workflow profiles

Previously all XERO Workflow profiles used the same theme settings. Administrators can now customize themes for each XERO Workflow profile, ensuring that all XERO Workflow users have the optimal theme properties for their role.

Customizations, such as screen layout and display mode added for supported integrations in XERO Workflow

XERO Workflow can be customized per user to include supported integrations. For example, opening studies in a separate browser window. The study and task display can also be customized by choosing the preferred screen layout and initial image display mode.

Receive notifications of new images in XERO Workflow

Users will now be notified when new images become available while performing reading tasks, reporting, or viewing studies. By informing users when new information is available, the likelihood of improved diagnosis increases.

Figure: A notification updates you when new images are available
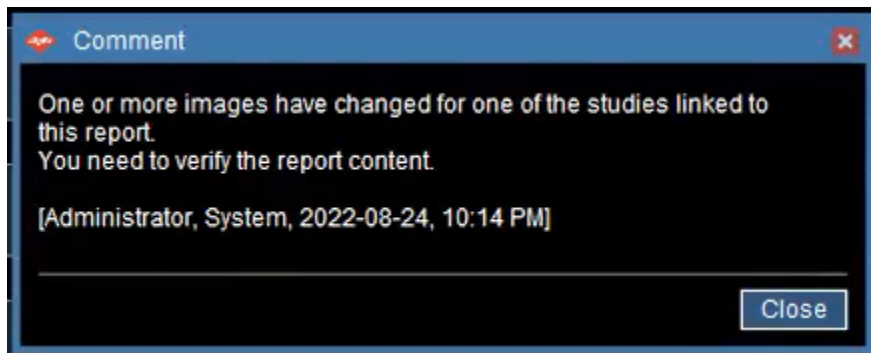
Shared Reading Workflow extended to include multi-procedure readings in remote Enterprise Imaging systems

Shared Reading Workflows make it possible to distribute workload between hospitals and allows you to benefit from the expertise of a particular hospital that had a specific area of medicine.

The Shared Reading Workflow has been extended to provide radiologists the ability to perform remote multi-procedure readings. This includes support for Enterprise Imaging desktops and through XERO Workflow.

Additionally, automatic study linking and manual unlinking provide your users with additional flexibility in performing their reading tasks.

New search criteria improves searching for patients and studies

You can now search for patients and studies using more than just the patient name or ID. New criteria includes date of birth, modality type, and accession number. If configured, you can also customize which search fields are displayed and which columns are available in the search results.

Figure: More search criteria is now available in XERO Workflow

Figure: Customize your search criteria
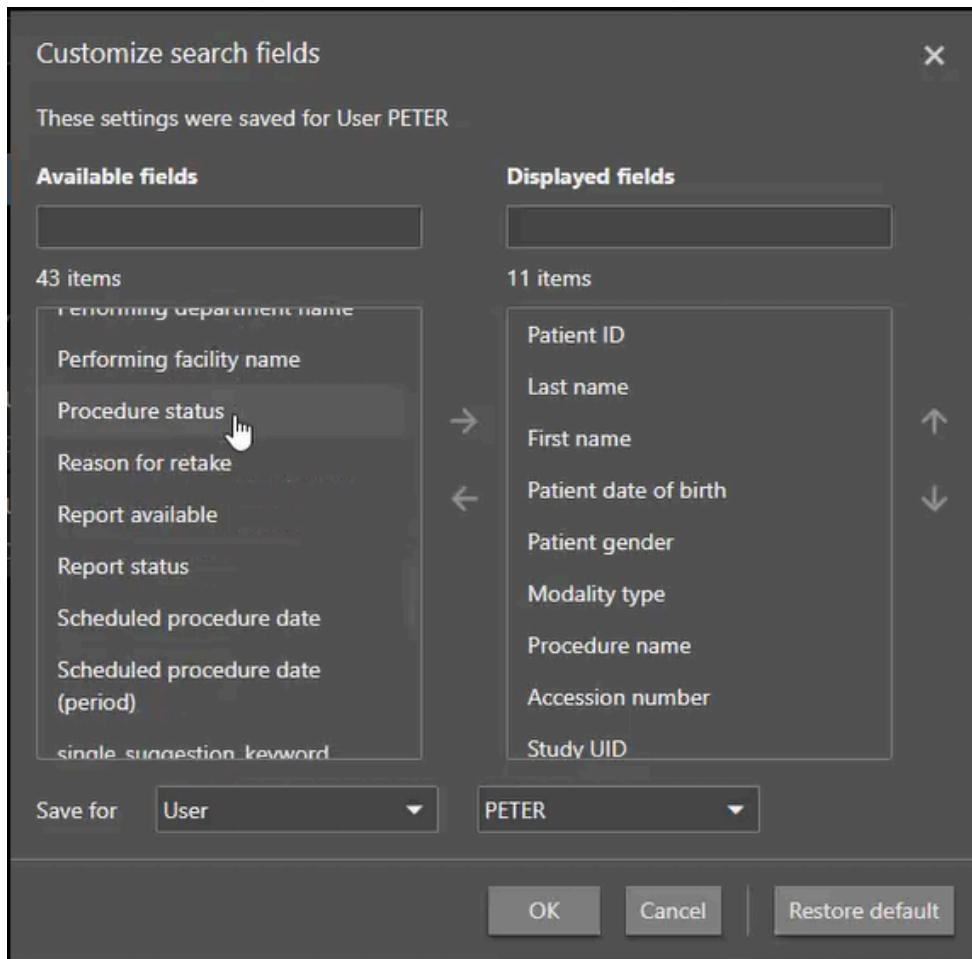
Task and cycle lists refresh automatically

Task and cycle lists are now updated automatically when a task is assigned to, or removed from, a list in XERO Workflow. If items in the cycle list are completed before the next refresh, they are removed from the list.

New hanging profile options available for XERO Workflow

System level hanging protocols are available in XERO Xtend and can be configured by site administrators. Use the Administrator Desktop to configure the hanging protocols.

Figure: Configure XERO Workflow hanging protocols from the Administrator Desktop

Administrator Desktop > Image Display > Hanging Protocols

Manage Hanging Protocols

Search

Hanging protocol name	Presentation group name
User	Desktop ▼

☐ Only show fallback / factory default

☐ Hide presentation groups

Acquisition Desktop
Clinician Desktop
Diagnostic Desktop
XERO Workflow

4. AI and Analytics

Business Intelligence and Operational Intelligence reports and tools allow you to gather, organize, analyze, and manage your clinical, quality, financial, and administrative data.

The following features and enhancements supporting AI and analytics are available in Enterprise Imaging 8.2.2:

Business Intelligence

    • Improved usability of the Text search dashboard

Business Intelligence

Enterprise Imaging Business Intelligence is an advanced platform that enables healthcare providers to gather, organize, analyze, and manage clinical, quality, financial, and administrative data, ultimately supporting better decision-making.

The following features and enhancements supporting Business Intelligence are available in Enterprise Imaging 8.2.2:

Improved usability of the Text search dashboard

Improvements to the Text search dashboard allow users to search for studies based on the report content, including one or more specific words or phrases or by excluding one or more specific words or phrases with the following filters:

    • all studies having a report with the report text containing all words listed
    • all studies having a report with the report text containing all phrases listed
    • all studies having a report with the report text containing one or more of the words listed
    • all studies having a report with the report text containing one or more of the phrases listed
    • all studies having a report with the report text not containing any word listed (NOT)
    • all studies having a report with the report text not containing any phrase listed (NOT)
    • all studies having a study comments containing all words listed
    • all studies having a clinical info containing all words listed
    • all studies having a reason for study containing all words listed

While the Text search dashboard provides a description on how to enter search terms in all the filters, guiding the user to come to the expected result, the search results (displayed in multiple columns) also include a snippet of the report text with the search term highlighted.

5. System Administrators and IT Managers

Explore configuration and platform features describing software updates, new features and functionality to improve your organization's Enterprise Imaging solution.

The following features supporting System Administrators and IT Managers are available in Enterprise Imaging 8.2.2:

📄 **Note:**

The Enterprise Imaging Administrator Desktop and Administrator Desktop Help is now available in French.

Configuration

- Improved patient data management with better handling of DICOM values
- Automatically fix studies using order-based identifiers to accommodate systems that require them
- Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems
- Improved policy management for application FQDN
- Audit Record Reports: Configurable instance level auditing now available in Administrator Desktop

Platform

- Upgrade compatible Enterprise Imaging Web Server versions without downtime
- Streamlined support for JPEG 2000 transfer syntaxes

Configuration

Improved patient data management with better handling of DICOM values

In the 8.2.1 release, the DICOM values for Patient Size and Patient Weight were, by default, replaced with the order-level values for these fields. However, if the order did not contain this information, the DICOM data was deleted. In 8.2.2, the defaults have been changed so that these DICOM fields are no longer overwritten.

Automatically fix studies using order-based identifiers to accommodate systems that require them

When an incoming study matches on patient ID and accession number, but not on study UID, Enterprise Imaging can now be configured to perform an auto-fix that assigns it the order-based study UID or the modality-based study UID.

Previously, modality-based study UIDs were always used when fixing study data. However, certain HIS/RIS do not support modality-generated study UIDs.

To accommodate these systems, administrators can configure Enterprise Imaging to apply order-based study UIDs instead. To ensure that auto-fixes are not applied too aggressively — for example, to studies still queued when an ORM update arrive — administrators can set whether

Enterprise Imaging is allowed to perform automatic QC fixup, and if so, how long to wait before updating the study UID.

Enhanced fixup rules ensure that updated studies are accepted by strictly compliant DICOM systems

When updating study demographics to match procedure information from the RIS, Enterprise Imaging previously retained the study's existing instance UID. External systems such as VNAs that are strictly compliant with the DICOM standard require that all instance UIDs be unique. They will therefore reject fixed studies with reused instance UIDs.

To better support strictly compliant systems, Enterprise Imaging can be configured to generate new instance UIDs for fixed studies. When so configured, IOCM incorrect modality worklist rejection notes are generated for the original study, rather than IOCM data retention expiry notes. Using these types of rejection notes ensures that DICOM compliant systems reject the original study and replace them with copies that have new instance and series UIDs.

Improved policy management for application FQDN

Enterprise Imaging authentication services can be exposed behind a separate FQDN allowing for a stricter policy towards the exposure of the application FQDN.

Audit Record Reports: Configurable instance level auditing now available in Administrator Desktop

System administrators can now choose to enable or disable instance-level auditing of DICOM object level events (DICOM Ingestion, Transfers, downloads, and so on) by using the Audit object (SOP UID) events checkbox. Disabling instance-level auditing (using only study-level auditing) significantly reduces the overall size of the Audit Record Repository (ARR) and is now the default setting for new installations. Historical data will not be impacted by this setting. You can enable instance-level auditing, if required. Audit Record Repository records can now be compressed to consume less space.

Note:

Enabling instance-level auditing does not provide evidence that a user has viewed the instances — only that the instances were downloaded to the Enterprise Imaging desktop client.

Platform

Overview: Changes to component versions for Enterprise Imaging 8.2.2

Component	Supported	No longer supported
Client stations	64-bit OS	32-bit OS
Client stations	Windows 10, Windows 11	Windows 7, Windows 8
Client stations	VMware hypervisor on Windows 10 to run server-side components	Native Windows 10 server components

Component	Supported	No longer supported
Java	OpenJDK Temurin Java 11 - latest stable version (Enterprise Imaging Installer Service: OpenJDK Temurin Java 8) 📋 **Note:** RC4 and 3DES ciphers are deprecated and have been disabled as of Java 11 version jdk-11.0.17	Oracle Java
VMware	ESX 7.x ESX 7.x is required for OL8 support Upgrades and turnkey deliveries must upgrade to 7.x. New installation will use 7.x or later	ESX 4.x, 5.x, 6.x
VM Hardware	Version 10 and higher. Configure to highest supported version.	Version 8
OVA encryption	SHA256	SHA1
Database	Oracle 19c/Oracle LINUX 8.x with 16GB (v)RAM	Oracle LINUX 6.x, 7.x; Oracle database on Windows 8GB (v)RAM (for Test and XXS systems)
Database	HugePages and ASMM by default on new installations and replacement upgrades to Oracle 19c	AMM will be switched to ASMM if using HugePages to improve performance
Core Server	Operating System: Windows Server 2022 Windows Server 2019 (Windows 2016 is only supported in Enterprise Imaging 8.1.2)	Operating System: Windows 2012R2, 2016 (Enterprise Imaging 8.1.4 and 8.2) Windows 2008
Web Server	JBoss EAP 7.4.6 is embedded as part of the Enterprise Imaging distribution. Operating System: Linux 8.x	WildFly

Component	Supported	No longer supported
Speech Magic	Nuance SpeechMagic 8 Fix Pack 14 (back-end) Nuance SpeechMagic 8 Fix Pack 10 (Desktop clients)	Nuance SpeechMagic 7 Nuance SpeechMagic 8 Fix Pack 10 (back-end)
Business Intelligence	Looker on Oracle LINUX 8.x (64-bit) or later	Oracle Business Intelligence (no longer included in new installations of Business Intelligence)
Core Server	Latest version of RH-SSO 7.5 and 7.6 (Keycloak) for identity and access management	N/A

Java application stack updates

To ensure that you can use Enterprise Imaging without having to worry about Information Security and Privacy (ISP) issues and benefit from long term support, the latest ISP updates for Java, SSO and JBoss have been applied to the Enterprise Imaging platform.

Streamlined support for JPEG 2000 transfer syntaxes

The JPEG 2000 transfer syntaxes—1.2.840.10008.1.2.4.90: JPEG 2000 Image Compression (Lossless Only) and 1.2.840.10008.1.2.4.91: JPEG 2000 Image Compression—are once again supported by default.

Upgrade compatible Enterprise Imaging Web Server versions without downtime

Upgrading compatible versions of Enterprise Imaging without downtime has been expanded to include the Enterprise Imaging Web Server. If the installer detects that you are upgrading to a compatible Enterprise Imaging version, then it can perform a (rolling) upgrade of the without downtime.

Compatibility between different Enterprise Imaging versions mainly applies to limited scope releases, that do not include changes such database, OS, embedded software components, or APIs changes.

6. Known issues, limitations, and workarounds

This section summarizes the relevant known issues and limitations for this release at the date of publication.

2025.07.10 14:40

Business Intelligence

Key	Summary
IEI-336459 PRB0762363	**Scheduled emails containing a Look as PNG visualization are failing** **Description:** Information in Enterprise Imaging Business Intelligence Powered by Looker can be presented as: • A Look, which is a saved snapshot of the data that results from a query; or • A dashboard, which is a collection of tiles showing visualized query results. Dashboards, Look visualization, or Look data can be delivered in a variety of formats and can be scheduled for periodic delivery as required. After the upgrade from Business Intelligence Powered by Looker 8.2.0 to Business Intelligence Powered by Looker 8.2.2 scheduled emails of Looks using the PNG visualization format are failing. The following message is received: <pre>Error occurred while generating this look - contact administrator (error: Render job 4505fb8a785a240577356fb181ef943b[2673] failed [Java::JavaSql::SQLDataException: data exception: invalid character value for cast])</pre> **Workaround:** Use one of the following workarounds: 1. When sending daily scheduled emails, use the PDF format for Looks; or 2. Save the Looks within a dashboard and send the daily scheduled emails as dashboards with inline visualizations.

Core Server

Key	Summary
IEI-212035	**Unable to convert MP4 video to DICOM in FHIR API upload** **Description:** Uploading a non-attachment video in MP4 format to Native Storage using the FHIR API results in a FAILED job in Horizon ConvertToDICOM queue. **Workaround:** Convert MP4 file to other supported video format, and then using Multimedia Gateway to upload and convert to DICOM.

Desktops

Key	Summary
	Simultaneous log in no longer possible **Description:** Unless you are working in a Citrix environment, you can no longer log in to multiple desktops on the same workstation. If you try to do this, you can log in to the new instance that is launched, but the original instance is closed. However, if logged into the Administrator Desktop, you can still launch one of the other desktops. **Workaround:** None.
IEI-296876	**Only 25 destinations are listed on the DICOM transfer tab** **Description:** In Enterprise Imaging 8.2.2 and later versions, the drop-down list used to select the destination on the DICOM transfer tab in the Print and export dialog has been replaced with a suggest box. As users start typing the name of the destination, a list of matching destinations is generated. This change introduces two limitations: • Users must know (at least) part of the name of the destination they want to send studies to. • The maximum number of matching destinations is 25. At larger sites, this might cause issues. The list of entries can be reduced to only contain "real" destinations for DICOM transfer.

Key	Summary
	Workaround: None.

Integrations

Key	Summary
	Custom-made interfaces/applications using Enterprise Imaging web services do not function as expected **Description:** Beginning in Enterprise Imaging 8.2.0.000, the HTTP transfer encoding that is used as part of the Enterprise Imaging web services, has been changed from data-length transfer encoding to chunked transfer encoding to improve web performance. This change may have a negative impact on custom-made interfaces developed using Enterprise Imaging web services. Though chunked transfer encoding was officially introduced in HTTP 1.1 (1997) and the specification was most recently updated in 2014, web services are not always developed to support both transfer encoding. It is highly recommended to test the compatibility with Enterprise Imaging 8.2.0.000 in a test environment prior to updating the production cluster. **Workaround:** None. Interfaces/applications that do not support chunked transfer encoding must be updated to support it.

XERO Viewer

Key	Summary
IEI-324556	**XERO Transfer after upgrade using cached info** **Description:** Post-upgrade attempts to perform XERO Transfer on a study that was already transferred **before** the upgrade, did not work properly. This issue can be seen only if **ALL** of the following conditions apply:

Key	Summary
	• The data in wado2cache is transferred to destination PACS using the broken version of Enterprise Imaging which will always be transcoded to LEE. • The same wado2cache is preserved for long term storage at the site even after upgrade. • That cached study data, which was already used to transfer with the broken version, in wado2cache is used again to transfer to destination PACS after upgrade. If the above conditions occur, then the default source TS will always be loaded as LEE while negotiating with destination PACS. **Workaround:** None.

XERO Xtend

Key	Summary
IEI-286721	**When doing a QC in the desktop, the red Q is not visible in XERO Xtend** **Description:** When performing a QC task in the Diagnostic Desktop on a different workstation, the red Q is visible in the Image area. However, in XERO Xtend there is no indication that a fix for that study is happening. The red Q is missing in XERO Xtend. **Workaround:** Open the study in XERO Viewer before opening it in XERO Xtend and check if the icon is shown in the viewport.