Centricity™ Universal Viewer
High-quality care today means expedited and coordinated care, delivered at a lower cost to deliver accountable patient outcomes.

As imaging is a gateway to care for most patients as well as a diagnostic touchpoint for downstream clinicians, rapid and precise image interpretation is especially integral to swift decision-making and ultimately to the quality of patient care.

GE Healthcare’s Centricity™ Universal Viewer supports the transition to a value based care model by optimizing productivity. Through a unified, web-based diagnostic viewer designed to keep diagnosticians in the workflow, it gives radiologists and other diagnosticians the support they need to become a full and central member of the care team.

This allows them to focus on contributing directly to improved patient outcomes, lowered costs of care, and quicker times to diagnosis and treatment.

Centricity Universal Viewer is a next generation Picture Archiving and Communication System (PACS) delivering enhanced diagnostic speed and confidence. With intelligent tools, streamlined workflows, advanced visualization, 3D post-processing, breast imaging tools, and enterprise-wide access to medical images on a single desktop,
Experience the **Power of One**

**clinical benefits**
- Up to 40% Increase in reading efficiency\(^3,9\)
- 90% reduction in time to access archived (LTS) priors\(^8\)

**operational benefits**
- Up to 10% Increase in diagnostic confidence\(^2\)
- Save up to 19% of radiologist’s time\(^4\)

**financial benefits**
- 32% reduction of duplicated tests with anytime access to data\(^1\)
- 30% reduction in cost of archiving\(^5\)
Centricity Universal Viewer Workflow Manager is an intuitive workspace uniquely designed for radiologists and trained professionals to organize, prioritize, and manage exams for interpretation. It provides access to clinical information and images along with connectivity to third party information and reporting systems, presenting images and information in an intuitive format and supporting them with clinical relevance.

Centricity Universal Viewer helps remove barriers to efficiency, while assisting radiologists achieve their goal of high quality patient care. With advanced efficiency tools, it ensures that valuable time is spent solving diagnostic challenges, instead of navigating menus. A customizable, intuitive user interface and optimized layout reduce the steps required to view and interpret studies and helps you focus on the images, rather than the software.

“One Platform to optimize reading workflow

“Since implementation of Centricity Universal Viewer, our workflow efficiency has improved by 40% when compared to the previous processes and solutions that were in place.”

Artur Grochowski, Radiologist and Head of CT & MR, HELIMED Diagnostic Imaging
Modern, user-friendly interface provides an intuitive workflow for the full range of users, from novice to expert, and from occasional to power users.

01 Intelligent Worklist with Autoserve

Provides smart allocation of work, using rules to fit to diagnostician, business and patient care priorities, with the ability to redirect exams when a radiologist is not available. Filtering and Sorting with full screen visuals and patient context for each exam allow easy and quick identification and prioritization of work.

02 Diagnostic Hub

Provides rapid access to patient’s demographics and primary exam information, including order information and report text if available, along with comparison, imaging history and prior exam information with reports.

03 Imaging Related Clinical Context (IRCC)

Relevant patient data such as EMR notes are embedded in the workflow, eliminating the need to open and search through multiple IT systems, and supporting a quicker and more confident diagnosis.1,10

"More clinical data allows a more precise diagnosis, because only the right diagnosis leads to the correct treatment and this in turn leads to a better recovery for the patient."

Prof. Dr. Martin Breitenseher, Landesklinikum Horn

04 Tabular Interrupted Workflow Design

Manage interruptions with one click to hold one or more exams in mid review to address urgent cases. Another single click quickly reopens them later when ready to resume. If dictating, dictation system automatically saves dictation and image annotation and reopens where you left off.

05 Auto Advance Exams

Automatically takes you to your next case after you save, dictate or finalize an exam on the dictation system. STAT exam priority takes the risk of missing an urgent exam out of the equation by automatically placing it at the top of the list.
Streamlined workflow and easy access to modality analysis and previous study comparison tools for more rapid and confident diagnostic decisions.

06 Deep Learning Based Smart Reading protocols
Optimize the radiology workflow productivity by learning each user’s or group’s reading preferences to automate image set-up including launching advanced visualization and other applications.

07 Adaptive Streaming Engine with Automated Intelligent Pre-Fetching and Auto-Fetching
Centricity Universal Viewer doesn’t keep you waiting – the first image is displayed within 2 seconds. It anticipates study content needed to prioritize fetches and adjusts for network conditions, device compute power, and image compression to provide the most efficient way to deliver images.

08 Native Cardiology and Integrated mammography, Advanced Visualization or Other 3rd Party Applications
Eliminates the need to switch to separate workstations and automatically loads and hangs images to keep you in the workflow. Native MIP/MPR saves time and allows for fusion reconstructions and manipulation on the fly to aid in diagnosis. One click Cardio Thoracic Ratio (CTR) provides all 3 measurements with just one click.

09 Smart Relevancy
Smart Relevancy and imaging history quick filters allow you to easily locate priors with similar body parts and modalities.

10 Automated Key Image Workflow
Easy to use and intuitive, providing drag and drop efficiency to both diagnosticians as well as referring physicians.

“Universal Viewer is impressively simple to use and works very quickly. Everything is easier than it was before, and the speed is such that we can diagnose patients much more rapidly.”
Artur Grochowski, Radiologist and Head of CT & MR, Helimed Diagnostic Imaging
One workstation for all modalities

Advanced visualization imaging applications provide a single source for post-processing applications for MIP/MPR, PET-CT, vessel analysis, automated bone removal, integrated registration, oncology quantification and more. For workflow efficiency, AV applications can be launched as part of the users hanging protocol.

Advanced Cardiology tools provide advanced medical imaging and quantification tools for Cardiology, offering a single source for coronary and vascular analysis, volume analysis, echo measurement and analysis such as 2D strain, 3D and 4D visualization as well as advanced measurement tools for CATH procedures.

Advanced Breast Imaging tools support display and diagnosis of multi-vendor images including mammography, tomosynthesis, breast MR, breast ultrasound, and Contrast Enhanced Spectral Mammography (CESM). Non-breast images available in the system can be displayed to help provide more clinical context on the patient.

Centricity Universal Viewer helps to increase efficiency and simplify information access with a single application for 2D, 3D, 4D and advanced image analysis applications, supporting multiple specialties on a common viewer accessible from anywhere. DICOM, XDS and Clinical Data support across multiple archives and EHRs to access cross enterprise studies and documents to enable holistic radiology, cardiology, mammography, and other specialty work flows.

Save up to 19% of radiologist’s time by utilizing one single workstation for all modalities.
One viewer for the patient care team

Help improve communication and collaboration with Centricity Universal Viewer Zero Footprint (ZFP), a web-based, server-side rendering viewer that provides clinicians enterprise-wide and community-wide access to patients’ medical images and reports from anywhere on the user’s device of choice.

Centricity Universal Viewer Zero Footprint enables access to diagnostic 2-D viewing imaging tools from any Internet browser for faster treatment planning, removing the barriers to care team collaboration. This supports a timely and correct diagnosis and treatment while simultaneously improving patient outcomes.

Clinical insights within reach to streamline continuum of care efficiently with Centricity Universal Viewer Zero Footprint (ZFP)

Increased diagnostic confidence by up to 10% through anywhere/anytime access to patient images and care collaboration

THE POWER OF one
In today’s complex healthcare environment, patients often seek care at multiple points of service. This may result in a patient’s imaging data being stored in different PACS or DICOM archives, possibly with different patient identifiers. Centricity Universal Viewer’s optional Cross Enterprise Display (XDS) provides radiologists and cardiologists with seamless access to a patient’s historical imaging data across affiliated institutions when those sites provide access.

Centricity Universal Viewer’s XDS capability discovers patient information in the affiliated systems and presents the information in the patient timeline just like it would for local exams. Comparison images selected for display are not copied to the local PACS system but rather streamed directly from the source to the client, reducing the need to transfer images, alleviating the creation of uncontrolled copies, and minimizing the challenges of data synchronization.

Cross Enterprise Display provides radiology departments with seamless access to a patient’s historical imaging data across affiliated institutions, streaming in real time from a GE Healthcare or 3rd party PACS or VNA.
One investment for the future

GE Healthcare focuses on delivering innovation to
Shape the Future of Radiology, Allowing you to
Focus on what’s most important… patient care delivery

**Today** Centricity Universal Viewer has intelligent productivity tools to enhance workflow efficiency

**Smart Reading Protocols (SRP)** represents a different way for radiologists to create robust and adaptive hanging protocols to improve image setup efficiency. SRP does not require the user to set-up hanging protocol rules that anticipate a multitude of scenarios, exam types, and procedure information. Using Artificial Intelligence based machine-learning algorithms, SRP makes inferences and hanging recommendations based on preferences it learns from the users.

**Smart Relevancy** for remote studies is determined by rules-based ontology matching using the same technology as SRPs. This tool saves valuable read time in locating priors with similar body parts and modalities and supports a more thorough patient context and a more confident diagnosis.

**Rules-based AutoServe** provides smart allocation of work, using rules to fit to diagnostician, business and patient care priorities, with the ability to redirect exams when the radiologist is not available. Rules can assign SLAs (service levels) and RVUs (relative value units) for procedures, route to subspecialties on modality, body part, location and more.

**Tomorrow** GE Healthcare is currently working with partners in leading health delivery organizations to design and build next-generation solutions to enhance diagnostic speed and confidence, as well as to optimize economic and clinical outcomes.

Through these development partnerships we are leveraging Artificial Intelligence (AI) technologies such as Deep learning to:

- Improve workflow and reading productivity for the diagnostician.
- Lower the risk of “negative” clinical consequences associated with delays in radiologist reading, interpreting and reporting.
- Empower care teams to accelerate clinical decision making, resulting in an improved patient experience and outcome.

"The key benefits for us are the time savings and enhanced collaboration. We're able to prepare images 50% faster than previously."

Wojciech Rogala, Head of Diagnostic Centre in Żory, Helimed Diagnostic Imaging

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Centricity Solutions for Enterprise Imaging deliver a common viewing, analytics and vendor-neutral archiving experience across your Enterprise

There are three main reasons why you should consider GE Healthcare as your Enterprise Imaging partner of choice:

- **Experience** – GE Healthcare is uniquely able to deliver large cross-enterprise solutions.
- **Breadth of solutions** – We cover each of the four elements necessary for enterprise imaging, spanning a robust modality businesses, advanced AW applications, enterprise imaging and vendor-neutral archives.
- **Ability to deliver outcomes that matter** – Our focus is to develop and deliver solutions that enhance your diagnostic speed and confidence in measurable and meaningful ways.

One vendor for all your Enterprise Imaging needs

More than 3,000 organizations trust Centricity Solutions for Enterprise Imaging. GE Healthcare delivers high-quality service, reliability and technology innovation, helping providers reduce the cost of ownership today while preparing for the challenges of the future. Learn more about the role GE Healthcare plays in optimizing healthcare organizations’ investment in imaging IT to help streamline healthcare costs, increase diagnostic confidence and enhance the quality of patient care by contacting your regional sales office today.

Scalable from small clinics to large regional deployments

Universal Viewer easily scales as your patient populations grow without the need to change software. This proven, scalable architecture allows you to connect multiple systems from different vendors across many different provider facilities to view patient images and data across a region or community. GE Healthcare’s integrated and reliable end-to-end solutions, powered by Intel® technology, put innovative software and cutting-edge performance at your fingertips, for a powerful, responsive, secure and highly efficient connected healthcare environment.

“The integration went really well. The GE Healthcare support staff and engineers were with us all the way, helping us get through any challenges. The transition was pretty seamless, and where it wasn’t, they were right there with us. We have come to depend on GE Healthcare’s expert support and high-quality products.”

Chad Moser, RT and PACS Administrator, Huron Regional Medical Center
GE Healthcare is a leading provider of medical imaging, monitoring, biomanufacturing, and cell and gene therapy technologies. GE Healthcare enables precision health in diagnostics, therapeutics and monitoring through intelligent devices, data analytics, applications and services. With over 100 years of experience and leadership in the healthcare industry and more than 50,000 employees globally, GE Healthcare helps healthcare providers, researchers and life sciences companies in their mission to improve outcomes for patients around the world. Follow us on Facebook, LinkedIn, Twitter and The Pulse for latest news, or visit our website www.gehealthcare.com for more information.

Imagination at work


2. Multidisciplinary Team Redesigns Care Processes and Systems, Leading to Significantly Improved Performance on Core Measures in Four Clinical Areas, Phyllis Justus, RN, MSN, NE-BC Director of Nursing, professional Practice; Carolinas Medical Center-University; Rose Brandau, RN, MSN Vice President/Chief Nurse Executive Carolinas Medical Center-University

3. Source: Case Study- Helimed Diagnostic Imaging Case study March 2014


5. 13 SNIA publications, Healthcare Data Growth Management, Gary L Woodruff

6. Where an Internet connection is available.

7. Centricity Universal Viewer ZFP client has been validated and cleared for diagnostic use by the US FDA on Microsoft® Windows® and Apple® Mac® products. ZFP has also received CE Mark for diagnostic use. As regulatory clearance requirements differ by country and region, GE Healthcare must obtain clearance in countries where local specific regulatory approvals are required. Your sales representative can provide information on the status of availability in your area. ZFP can also be used on the Apple® iPad® Samsung Galaxy Note® 10.1 and Galaxy Tab® 4 in a review only mode and is not meant for primary diagnosis on these devices. Please refer to the product datasheet for a list of operating systems and browsers supported on these devices.

8. As compared with 200 slice CT exam prior via Centricity Web

9. 50% improvement in Clinician Productivity after deploying an XDS-compliant solution as reported by Antwerp University Hospital in Belgium.

10. At time of this writing, supports Allscripts only. Your sales representative can provide current information on systems supported.

11. Cardio and Breast imaging sold as optional integrated applications.

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