

Universal Viewer Zero Footprint Client¹

Product Data Sheet

Helping to improve communication and collaboration

Introduction

Centricity PACS and Centricity PACS IW with Universal Viewer puts clinical insights within reach to deliver patient results efficiently. Universal Viewer's Zero Footprint Client provides clinicians with access to images and reports from anywhere³ on the user's device of choice.⁴

Universal Viewer Zero Footprint Client offers non-diagnostic, review only capabilities that provide radiologists and clinicians with enterprise-wide and community-wide access to images and reports through the organization's Electronic Medical Record (EMR) or physician portal.

Radiologists and clinicians have access to radiology and cardiology images. They can choose from one of the pre-defined layouts, can use advanced 3D reformatting tools such as MIP/MPR and volume rendering⁵ and can display and automatically play up to 4-cine loops simultaneously with zoom and pan capabilities.

Universal Viewer Zero Footprint Client has the added advantage of a zero installation with no download of any software to the user's device, no administrative rights required for access and no patient data left behind – decreasing reliance on IT staff for use and helping make patient diagnosis and treatment efficient.

Since images can be stored in a number of systems within your enterprise, Universal Viewer ZFP can access data created in multiple systems and stored in Centricity Clinical Archive solution. When used in conjunction with our Patient Information Viewer⁶, users can display and review DICOM images and non-DICOM content generated by other PACS or DICOM sources throughout the enterprise. Multiple users can remotely access the images from any location.³

The Universal Viewer ZFP also provides a standalone search function when used as an independent review device. Users can search for any exam by patient name, medical record number or accession number. Searches can be filtered by modality type and exam date.



- 1 Universal Viewer Zero Footprint client is available with Centricity PACS
- 2 The ZFP functions in a review only mode and is not meant for primary diagnosis
- 3 Where an internet connection is available
- 4 See Minimum Client Specifications for device types supported
- 5 Available with the desktop version only
- 6 Centricity Clinical Archive includes the following product components: Centricity Enterprise Archive, Centricity Enterprise Web - Patient Information View module, Centricity Enterprise Web, Caradigm eHIE, Centricity Clinical Gateway, MatchMetrix EMPI, PACSGEAR PacsSCAN™

NextGate



Key Benefits

- Help to mobilize your radiologists and clinicians with access to images and reports from virtually anywhere³
- Use advanced reformatting tools while viewing images
- Help to increase user satisfaction by allowing clinicians to use the device of their choice⁴
- Display and review radiology and cardiology images on the same device
- Display DICOM and non-DICOM data
- Provide images access from your EMR via URL
- Enterprise-wide access by clinicians and referring physicians
- No installation of software on the user's device
- No administration rights are required to install and use the application
- No data stored on the local device – helps to support data security and privacy
- Provides a patient-centric view of image data when used with Centricity Clinical Archive
- Helps to increase usability by using the same streamlined, ergonomic user interface deployed with the Universal Viewer web client

Key Features

- 2-D viewing with ability to zoom, window/level, perform measurements and annotate
- Supports 3-D viewing with MPR/MIP and Volumetric Rendering
- Display and apply different presentation states during the viewing session
- User specific image viewport layouts
- Displays Key Image Notes
- View reports
- Specific labeling when Lossy images are viewed
- Automatic cine on up to 4 multi-frame objects with ability to change speed, window/level and pan during cine
- Side-by-side comparison allows access to comparison exams
- Show or hide DICOM overlays
- Allows image viewing with progressive and adaptive streaming. No user intervention needed.
- Toolbar and right click option to access viewer functions
- Incorporates series navigator with drag and drop functionality
- Study search function — search for any exam by patient name, medical record number or accession number. Filter by modality or date range.
- Lights On/Lights Off theme for viewing in different lighting environments
- Native gestures on iPad®
- User authentication through Active Directory enables added security and decreased user maintenance
- Incorporates ATNA logging and optionally logging to Windows® Server Event Log



Figure 1: Study search

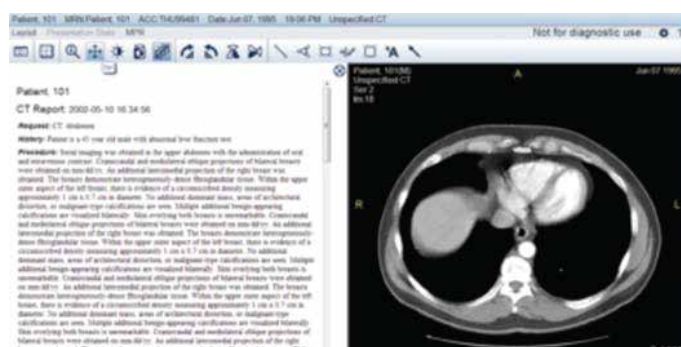


Figure 2: Image and report

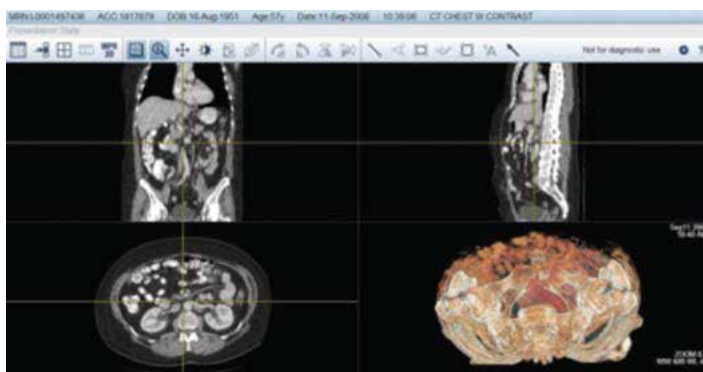


Figure 3: 2x2 MPR and volume rendered image



Figure 4: Native gestures on iPad

Implementation Options

The Universal Viewer Zero Footprint Client can be implemented with Centricity PACS, Centricity Clinical Archive. Please contact your GE representative to discuss implementation in your enterprise.

Supported Platforms		
CPACS 3.2.6 with Enterprise Archive 4.0.4	CPACS 4.0.1 with Enterprise Archive 4.0.4	Enterprise Archive 4.0.4
Y	Y	Y

Authentication Modes

ZFP utilizes Windows® Authentication to authenticate users. This supports single sign-on when the user is logging in from the same Windows® domain as Zero Footprint Client.

Browsers Supported

Microsoft® Internet Explorer® 9 32 bit
 Microsoft® Internet Explorer® 9 64 bit
 Microsoft® Internet Explorer® 10
 Mozilla Firefox®
 Google Chrome™ V22

Google Chrome™ Frame (Can be used to deploy ZFP on devices using Microsoft® Internet Explorer® 6, 7, 8)
 Safari® v6 (Mac OS®)
 Safari® v6 (iOS® on iPad®)

Minimum Client Specifications

Operating System

- PC or MAC
- Mac® OS X 10.7.5 or later
- Apple iPad®: iOS6 or later

RAM

512 MB available for Browser instance running ZFP

Monitor

Single monitor minimum native display resolution – 800 x 600 @ 60 Hz

Minimum Server Specifications

Server Operating System	W2008R2 SP1 64-bit Standard, Enterprise, Data Center for Windows® 2008 Server
Microsoft® SQL Server	NA
VMware® Vsphere for Server environment	ESXi 5
Compute power	8 CPU/vCPU
RAM	8 GB RAM (32 GB preferred)
Storage	<ul style="list-style-type: none">• 60 GB OS partition• 300 GB Data partition• RAID 1 + 0 minimum
Interfaces	<ul style="list-style-type: none">• Two 1GB NICs• DVD-RW
Concurrent users per server	33

Languages Supported

English	Spanish
German	Turkish
Japanese	Brazilian Portuguese
French	Dutch
Simplified Chinese	Swedish
Italian	

DICOM Support

- | | |
|---|--|
| <ul style="list-style-type: none">• Single-frame and Enhanced CT, MR• US, PT, XA, RF, SC, CR, DX, MG, IO, SC, XA, VL Endoscopic, Microscopic and Photographic Image• Presentation States (PS) | <ul style="list-style-type: none">• Key Image Notes (KIN)• Basic Text SR, DOSE SR <p>Complete support information can be found in the product DICOM conformance statement</p> |
|---|--|

IHE Profiles

- Consistent Presentation of Images – Image Display
 - Key Image Note – Image Display
 - Access to Radiology Information – Image Display
 - Basic Image Review – Image Display (partial support)
 - Consistent Time Profile as Client Actor
 - ATNA – Audit Trail and Node Authentication as Image Display Actor
- Complete support information can be found in the product IHE conformance statement

Licensing Models

Our flexible licensing models provide each enterprise the ability to select a pricing structure that meets their individual needs and budgets.

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