Universal Viewer Zero Footprint Client

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 anywhere1 on the user’s device of choice.

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 rendering2 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.

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.
Key Benefits

- Help to mobilize your radiologists and clinicians with access to images and reports from virtually anywhere.
- Use advanced reformatting tools while viewing images.
- Help to increase user satisfaction by allowing clinicians to use the device of their choice.
- 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](image1.jpg)

![Figure 2: Image and report](image2.jpg)
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.

### 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.

<table>
<thead>
<tr>
<th>Supported Platforms</th>
<th>CPACS 3.2.6 with Enterprise Archive 4.0.4</th>
<th>CPACS 4.0.1 with Enterprise Archive 4.0.4</th>
<th>Enterprise Archive 4.0.4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Server Operating System</th>
<th>W2008R2 SP1 64-bit Standard, Enterprise, Data Center for Windows® 2008 Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft® SQL Server</td>
<td>NA</td>
</tr>
<tr>
<td>VMware® Vsphere for Server environment</td>
<td>ESXi 5</td>
</tr>
<tr>
<td>Compute power</td>
<td>8 CPU/vCPU</td>
</tr>
<tr>
<td>RAM</td>
<td>8 GB RAM</td>
</tr>
<tr>
<td></td>
<td>(32 GB preferred)</td>
</tr>
<tr>
<td>Storage</td>
<td>• 60 GB OS partition</td>
</tr>
<tr>
<td></td>
<td>• 300 GB Data partition</td>
</tr>
<tr>
<td></td>
<td>• RAID 1 + 0 minimum</td>
</tr>
<tr>
<td>Interfaces</td>
<td>• Two 1GB NICs</td>
</tr>
<tr>
<td></td>
<td>• DVD-RW</td>
</tr>
<tr>
<td>Concurrent users per server</td>
<td>33</td>
</tr>
</tbody>
</table>

Languages Supported

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

DICOM Support

- Single-frame and Enhanced CT, MR
- US, PT, XA, RF, SC, CR, DX, MG, IO, SC, XA, VL, Endoscopic, Microscopic and Photographic Image
- Key Image Notes (KIN)
- Basic Text SR, DOSE SR
- Presentation States (PS)

Complete support information can be found in the product DICOM conformance statement.
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.