

# NilRead *(Version 4.3)*

NilRead Enterprise Viewer Feature descriptions

(All features are available and can be configured by user, group, or system, based upon specific site requirements.)

General Features
Verified Browsers: IE (Version 8 and up), Firefox, Chrome, Safari, Opera
Verified Devices: (PC, Mac, Tablet, Handheld)
Multi-touch support on Windows 10
DICOM, C-Store, SCU/SCP & MWL SCU
DICOMweb (WADO-RS, QIDO-RS, STOW-RS)
API Interface to VNAs
DICOM Activity Monitor
Federated Search (DICOM, XDS, Other Repositories, Customer Web Services, etc.)
XDS and XDS-I Consumer
User Management
Role-Based Access
Public and Private Folders
Printing
Multiple Active Directory Authentication
Local NilRead Authentication (for guest)
EPIC Encrypted URL Integration
FUJI Encrypted URL Integration
Open API for launch, authentication, and report ingestion
Lifecycle Management
Prefetch
Multi-Tenant (virtual sites & unique governance)
Languages supported English, French, Spanish, Italian, German, Chinese, Japanese

Departmental Worklist / Quality Assurance
Advanced QC Interface for Video Editing
DICOM Attribute Editing
Reconciliation with MML Scheduled Procedures
Series Splitting
Masking, Label, Markers
Anonymization / Confidentially Masks
Outbound IOCM Messaging to Update 3rd Party Systems
Folding / Printing
Integration w/ External Worklists (RIS, EMRs, Enterprise Worklist, etc.)
Quality Control and Data Assurance Components
Data Quality Control and Data Assurance Tools

Basic Image Viewing
2D Image Manipulation (WL, Zoom, Pan, Rotate, Preset)
Cine
Non-DICOM (jpeg, png, tiff, pdf, mpeg4)
Display of Reports
Toolbar Configuration
Batch Viewing
Multiplaner (aligned, oblique, curved)
3D (volume rendering, MIP average)
Create Secondary Capture
MPR Curved

Intermediate Image Viewing
Display of Presentation States
Cross Correlation Between Series (localizer)
Prior Support
Linking Between Multiple Series
Arrow and Text Annotations
Basic Measurements: Point, Ruler, 3-Points Angle
Grease Pen (Annotation w/o Measurement)
Advanced Measurements: Ellipse, Contour, Region of Interest (ROI), Cobb Angle, Spine Tools
Blur / Sharpen, Gamma Correction
Curved Reformat

Study Notes
Aligned with best practices as outlined in the RSNA Reporting Initiatives Program (see <a href="http://www.RadReport.org">www.RadReport.org</a> )
Customizable and Portable HTML5 Format
Stored as DICOM SR (Structured Report) Objects
Add DICOM Data and Images to a Report
Floating Report Window (capable of resizing and moved to not affect image viewing)

Saved Evidence
Save and Send Bookmarks
Creation of Key Images
Creation of Presentation States

Multi-Specialty Capabilities
Advanced CT and MR Protocols (Automatic Multiple Series, 2D, MPR, and 3D)
Fusion (PET-CT and PET-MR)
Mammography Diagnostic Workflow (including computer aided diagnostic display)
Ophthalmology Diagnostic Workflow
DICOM-ECG Standard (view, measure, and document diagnostic ECG waveforms)
Hh, ECG Viewing Layouts (3x4+1, 3x4+3, 6x2)
ECG Tools Panel (frequency features, timescale adjustments, gain adjustments)
ECG Area Calculations (BPM, Time, MVs)
ECG Viewing of QT Retrieval, RR Interval, and QT and QTc Formulas
Heart Rate Measurements
Radiation Treatment Support Functions including: <ul style="list-style-type: none"> <li>Display of Radiotherapy Plans</li> <li>Edit Isodose Levels</li> <li>Add/Delete Isodoses</li> <li>Switch to Absolute to % Isodose Values</li> <li>Color Editing, Opacity and Line Thickness of Isodoses</li> <li>ROI Structures: Color Editing and Opacity of Structures</li> <li>DVH Graphing, allow Histogram Computing</li> </ul>

Image Sharing, IHE and Collaboration
NilFeed: Securely ingest imaging studies and documents from remote sites
Privilege Controlled, Zero-Footprint Upload / Download w/ Web CD Uploader
Authorized One-Time Secure Use Link to External User to Support Web-Based Upload
Launch integration w/ EHRs and other systems
Real-Time Collaboration. Including Skype
NilRead IHE Integration Profiles <ul style="list-style-type: none"> <li>Image Display (ARI, BRI, CPI, ED, KIN, IID)</li> <li>Report Reader (ARI, SINR)</li> <li>Evidence Creator (CPI, ED, KIN)</li> <li>Display (RID)</li> <li>Document Consumer (XDS.b)</li> <li>Imaging Document Consumer (XDS.b-l)</li> <li>Content Consumer (XDS-SD)</li> <li>Patient Demographics Consumer (PDQ)</li> <li>Patient Identified Cross-Ref Consumer (PIX)</li> <li>Client Authentication Agent (EUA)</li> <li>Secure Note &amp; Secure Application (ATNA)</li> <li>Time Client (CT)</li> </ul>

Administrative Tools and Features for Administrators and Clinical Leaders Access
Enables access to features as a System, User, or User-level of Granularity
Tools and Feature Usage Statistics by Site
Crash / Exception Statistics / IIS Alerting
Study Statistics
Loading / Rendering / SQL Statistics
Break the Glass Notifications

NilRead Digital Pathology <i>(Available for Clinical Investigations in the European Union)</i>
Acuo VNA and NilRead Digital Pathology Viewer equipped to ingest and read special DICOM SOP Classes unique to Pathology
Acuo VNA and NilRead also capable of inherently ingesting and managing JPG macro images of tissue samples
Mimics the Microscope-based Pathology viewing experience (white-viewer background, forced horizontal or vertical image panning, specialty-specific structuring of Pathology studies, support for 4K monitors)
Web-based, zero-footprint allows Pathology image interpretation to be performed from anywhere on nearly any device
Built on the open standard, DICOM for Pathology (Supplement 145)
Class-leading Pathology Rendering Engine for high resolution imaging (can interact in full quality with their whole slide imaging (WSI) at 8 megapixel and higher, supports natural Pathology workflow and tray metaphor, integrates with LIS and Pathology automated quantitative solutions)

Note 1: Proprietary API required to access non-Acuo private data stores (TeraMedica, Mach7, etc.)

Note 2: Optional NilFeed license is required