NILREAD

v5.1 feature descriptions

GENERAL FEATURES
Verified browsers: MS Edge, IE11, Chrome, Firefox, Safari
Verified devices: PC, Mac, tablet, mobile phone
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, Repositories, Web Services, etc.
XDS and XDS-I Consumer
FHIR integrations

Public and private folders
Printing
Multiple Active Directory authentication
Local NilRead authentication (for guest)
Epic encrypted URL integration
Fujifilm encrypted URL integration
Open API for launch, authentication and report ingestion
Lifecycle management
Prefetch
Multi-tenant (virtual sites & unique governance)
Custom branding — designated locations for logos
MDT/tumor board workflows: custom folders, batch queues, keyword flagging, folder notes, date stamps
Study UID grouping with the same accession number (squishing)

ADMINISTRATIVE TOOLS AND FEATURES
Enables access to features as a system, group or user
Tools and feature usage statistics by site
Crash / exception statistics / IIS alerting
Admin dashboard
Study statistics
Loading / rendering / SQL statistics
Data analytics
Break glass notifications
Common Access Card authentication
Enhanced Security Audit page
UI for Epic AES-256 encryption

REMOTE READING
Edge Rendering
Bi-directional propagation of preferences
Study or streaming mode

Hyland™

IMAGE SHARING, IHE AND COLLABORATION

NilFeed: securely ingest imaging studies and documents from remote sites

Privilege controlled, zero-footprint upload/download with Web CD Uploader

Authorized one-time secure use link to external user to support web-based upload

Launch integration w/ EHR, dictation, specialty viewers

Send and share secured study links

HL7

Real-time collaboration

IHE Integration Profiles
- Image Display (ARI, BRI, CPI, ED, KIN, IID)
- Report Reader (ARI, SINR)
- Evidence Creator (CPI, ED, KIN)
- Display (RID)
- Document Consumer (XDS.b)
- Imaging Document Consumer (XDS.b-I)
- Content Consumer (XDS-SD)
- Patient Demographics Consumer (PDQ)
- Patient Identified Cross-Ref Consumer (PIX)
- Client Authentication Agent (EUA)
- Secure Note & Secure Application (ATNA)
- Time Client (CT)

STUDY NOTES

Aligned with best practices as outlined in the RSNA Reporting Initiatives Program (www.RadReport.org)

Customizable and portable HTML5 format

Stored as DICOM SR objects

Add DICOM data and images to a report

Floating report window (capable of resizing and moving for image viewing)

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 third party systems

Foldering/printing

Integration with external worklists (RIS, EMRs, dictation, enterprise worklist, etc.)

Quality control and data assurance components

Data quality control and data assurance tools

Video editing

BASIC IMAGE VIEWING

2D image manipulation: W/L, Zoom, Pan, Rotate, etc.

Cine

Non-DICOM: JPEG, PNG, TIFF, PDF, MPEG4

Display of reports

Toolbar configuration

Batch viewing

Multiplaner reconstruction (aligned, oblique, curved)

3D (volume rendering, MIP average)

Create Secondary Capture

Hyland Doc Filters integration

ADVANCED IMAGE VIEWING

+1 Priors (adjacency)

Anatomical region filtering

Display/creation of presentation states

Save/send bookmarks

Create key images

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 without measurement)

Advanced measurements: Ellipse, Contour, Region of Interest (ROI), Cobb Angle, Spine Tools, Reference Line Caliper

Blur/sharpen, gamma correction

Curved Reformat

Extended Patient Timeline

Advanced CT and MR Protocols (Automatic Multiple Series, 2D, MPR, and 3D)

MULTI-SPECIALTY CAPABILITIES

Fusion (PET-CT and PET-MR)

Mammography Diagnostic Workflow

Mammography CAD display and edgeamp; edge detection

Mammography implant masking

Ophthalmology Diagnostic Workflow:
- Ophthalmic Photography 8 Bit Image Storage
- Ophthalmic Photography 16 Bit Image Storage
- Ophthalmic Tomography Image Storage
- Wide Field Ophthalmic Photography
- Stereographic Projection Image Storage

DICOM-ECG standard (view, measure and document diagnostic ECG waveforms)

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

Simpson Measurement, Ejection Fraction, GSPS

Heart rate measurements

Radiation treatment support functions including:
- Display of Radiotherapy plans
- Add/Delete/Edit isodoses
- Switch absolute to % isodose values
- Color editing, opacity and line thickness of isodoses
- ROI structures: color editing and opacity of structures
- DVH graphing, allow histogram computing

Orthopedics: image stitching (scoliosis, leg length)

Neurology: NIfTI image support

Dental imaging

Referential pathology viewing (US only)

Diagnostic pathology viewing (EU, UK only)

PATIENT PORTAL ENABLEMENT

EHR integration to patient portals with Image Viewing

Simplified license

Simplified user interface

Study upload (by the patient)

Secure link sharing (by the patient)

Learn more at **HylandHealthcare.com/EnterpriseImaging**

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