

# 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

The Hyland logo is displayed in white text on a green-to-blue gradient background. The word "Hyland" is in a serif font, with a trademark symbol (TM) to the upper right of the 'd'.

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 <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>

STUDY NOTES
Aligned with best practices as outlined in the RSNA Reporting Initiatives Program ( <a href="http://www.RadReport.org">www.RadReport.org</a> )
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: <ul style="list-style-type: none"> <li>■ Ophthalmic Photography 8 Bit Image Storage</li> <li>■ Ophthalmic Photography 16 Bit Image Storage</li> <li>■ Ophthalmic Tomography Image Storage</li> <li>■ Wide Field Ophthalmic Photography</li> <li>■ Stereographic Projection Image Storage</li> </ul>
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: <ul style="list-style-type: none"> <li>■ Display of Radiotherapy plans</li> <li>■ Add/Delete/Edit isodoses</li> <li>■ Switch 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>
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](https://HylandHealthcare.com/EnterpriseImaging)


**Authorized European Representative**  
 Emergo Europe  
 Prinsessegracht 20  
 2514 AP The Hague  
 The Netherlands  
 0413  
NIL-BRCH-DIGM. Rev A


**Manufacturer**  
 Hyland Software Canada ULC  
 111 Peter Street, Suite 540  
 Toronto, Ontario, M5V 2H1  
 Canada  
 T +913 227 7030

