



# NilRead v24 Release Notes (24.1.0.119293)

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Doc #: 971-08016



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## 1 Introduction

### 1.1 Purpose

This document provides the release notes for release of NilRead v24 (v 24.1.0.119293)  
Note this release is for English only installs. For other languages, please contact Hyland.

### 1.2 NilRead Intended Use Statement

#### **In the U.S.:**

The NilRead software application provides desktop and portable access to multi-modality softcopy medical images, reports and other patient related information for conducting diagnostic review, planning, and reporting through the interactive display and manipulation of medical data, including mammography and breast tomosynthesis. NilRead also allows users to collaborate by sharing application sessions.

Lossy compressed mammographic images are not intended for diagnostic review. Mammographic images should only be viewed with a monitor approved by FDA for viewing mammographic images. For primary diagnosis, post process DICOM “for presentation” images must be used.

On mobile platforms, this device is not intended for diagnostic use.

#### **In Canada:**

The NilRead software application provides desktop and portable access to multi-modality softcopy medical images, reports and other patient related information for conducting diagnostic review, planning, and reporting through the interactive display and manipulation of medical data. NilRead also allows users to collaborate by sharing application sessions. NilRead is for use with MRI, CT, Ultrasound, Digital Fluoroscopy, Digital Angiography, X-ray, Mammography, DBT, ECG, Dicom RT and Nuclear Medicine Images.

On portable (mobile) platforms, this device is not intended to replace full workstations and should be used only when there is no access to a workstation. It is the user’s responsibility to ensure the software is used on appropriate hardware and to verify display image quality is suitable for the clinical application. Mobile use is not intended for diagnostic review of Mammography and DBT.

#### **In all other regions:**

The NilRead software application provides desktop and portable access to multi-modality softcopy medical images, reports and other patient related information for conducting diagnostic review, planning, and reporting through the interactive display and manipulation of medical data, including mammography. NilRead also allows users to collaborate by sharing application sessions.

Mammographic Images should only be viewed with a monitor approved by the FDA for viewing mammographic images, or monitors with similar specifications. On portable (mobile) platforms, this device is not intended to replace full workstations and should be used only when there is no access to a workstation. It is the user’s responsibility to ensure the software is used on appropriate hardware and to verify display image quality is suitable for the clinical application. Mobile use is not intended for diagnostic review of Mammography and DBT.



NilRead is intended for use by physicians trained in reviewing and interpreting medical images

### 1.3 Version Identifier

NilRead Build ID: 24.1.0.119293

### 1.4 Release Content

The NilRead v24 release contains:

- NilRead Installers
- Release Notes (this document)

## 2 Interface Requirements & Dependencies

### 2.1 Hardware

The system resources required by NilRead depend on several factors including the usage scenario (e.g. 2D, 3D, etc.), resolution of monitors and expected performance (e.g interpretation vs referring physician). For minimum hardware requirements, please contact Hyland.

### 2.2 Software

Refer to the 'NilRead Installation Instructions' for details (doc # 941-07001)

### 2.3 Special Notes

#### 2.3.1.1 Internet Explorer 11

MS IE 11 is no longer supported

### 2.4 Installation

Refer to the NilRead installation Instructions (doc # 941-07001) for more details.

### 2.5 Support

To report any issues, please contact Hyland's authorized distributor in your area, or:

#### Hyland Customer Support

Customer Support  
Hyland Software Canada ULC  
251 Consumers Road, Suite 1212  
Toronto – M2J 4R3

#### Authorized Representative in Europe (Regulatory affairs only)

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Prinsessegracht 20  
2514 AP The Hague  
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(p) +31.70.345.8570

#### Australian and New Zealand Sponsor

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Level 20  
Tower II, Darling Park  
201 Sussex Street  
Sydney, NSW 2000



- U.S. (toll free): [1-877-201-0001](tel:1-877-201-0001)
- Direct: [913-227-7030](tel:913-227-7030)

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EmergoVigilance@ul.com

Australia  
[AUNZVigilance@ul.com](mailto:AUNZVigilance@ul.com)

Customer Portal:  
<https://www.onbase.com/community>  
Email: [NilRead\\_info@hyland.com](mailto:NilRead_info@hyland.com)

Emergo- CARSL Consulting  
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## 3 Summary of New Features and Changes

### 3.1 Workflow Optimizations

Version: 24.1.0.119293

- 11893 improve copy behavior (include whitespace) in pdf.js - upgrade to latest (4.0.189)
- 11762 ITI-68 Retrieve Document as Stream
- 11454 Settings > System > Timeline: Thumbnail title pattern needs guidance to understand.
- 11734 queried patient ID (UMCN ID) instead of eMPI ID unknown to user
- 1869 Additional improvements to view certain cloud images when google cloud storage is enabled
- 11832 Add configuration option for secure cookies
- 11786 remove HD from default toolbar
- 11754 merge XdsCode.AssigningAuthorities with eMPI AssigningAuthorities
- 11752 Propagate 'src' URL parameter to HP query qido call header
- 11749 Improvements to DICOM RT DVH
- 11745 Series name - word wrap
- 11728 Pre-populate assigning authority with preferred default
- 11699 dark/light skin
- 11685 US Variant of OCT Views
- 11675 SMTP StartTLS support over port 25
- 11668 Rolling local cache storage folder support for the LTS use case
- 11666 custom timespan in group settings is overly difficult to use
- 11664 Login screen updates
- 11661 The browser tab is not reused for EMR launch when the study does not exist
- 11659 Add includesubdomains to STS header
- 11640 Download performance improvements for slow Local Cache repositories
- 11639 On non-US server OS, PT study rescale value is incorrect when sending the study to 3-rd party
- 11635 Translation WW/WL into MV/VB is undesirable
- 11629 Provide a function to "move to folder" and "add note" while the images are open and being viewed
- 11618 Remove NilFeed from PD
- 11616 drag & drop icons for toolbar setup
- 11615 tech note buttons/keyboard shortcut
- 11614 Hidden Button text change

- 11608 Download study options for patients in NilRead
- 11599 Ability to select a mask to use while working with a study
- 11588 CPE POC - AcuoStore Agent will only install to C: drive with no option to change
- 11564 Allow hiding all the "user modifiable" settings and/or hide Settings button
- 11553 Provide a more verbose error page when users attempt to launch another patient via API Web launch when the Hyland Winman Chrome Extension is not installed
- 11454 Settings > System > Timeline: Thumbnail title pattern needs guidance to understand
- 11386 Allow user to define a default for "pick first vertebrae" pop-up
- 11376 metadata upload
- 11370 VA Negotiations-Mandatory SOP Class support - RT MPV
- 11365 improve XDS grouping by accession number
- 11357 Add Show series/study in auxiliary monitor
- 11342 Improve functionality for Groups within User Management
- 11327 circle annotation keyboard shortcut
- 11321 maintained the CD Viewing subfolders during upgrade
- 11088 Study / Tech Note background should be inverted
- 10842 Tech note
- 10808 new study arrival
- 10518 curved reformat orientation is vertical
- 9549 crosshair localizers
- 9533 VNA config - db exclusion
- 11857 Enable Patient Portal for all regions

Version: 23.0.9.117962

- 7147 add PT/CT indication on fused data
- 7199 extended pt timeline window
- 8063 ILM policy button in QC toolbar
- 10745 multiple smart zoom
- 11188 information hover item
- 11209 Timeline heat map
- 11224 Need DICOM send study to destination button
- 11239 Delphinus SoftVue
- 11280 License server HA/BC/DR
- 11286 Acuo data adapter proxy enabling must consider the farm data source/catalog
- 11309 When using multi-select in the PD the thumbnails for the first study remain after the box is unchecked
- 11310 update version of libtiff
- 11316 Update version of ClearCanvasPlugin\_Jpeg\_x64\_release.dll
- 11317 Update version of package containing jpeg62.dll and turbojpeg.dll
- 11322 Add prior scroll buttons to timeline
- 11329 Move demographics and measurements from response header
- 11345 See measurement value while measuring - Ruler
- 11348 Mammography keypad support - worklist and dictation engine control
- 11349 Issues with displaying the RT isodoses contours
- 11351 Link Sharing pw requirements

- 11360 Supporting DICOM TLS key logging
- 11376 metadata upload
- 11413 add 'auto-enroll' support to invoke signin API
- 11423 checking pop-ups before data download
- 11431 Need to update mammo view code mapping to current standard.
- 11487 update IE reference in help file to Edge
- 11490 NilRead configured for AcuoWorkflow Service Patient Management Endpoint and database scope of \* does not use All in the DELETE request
- 11491 NilRead configured for AcuoWorkflow Service Patient Management Endpoint uses database name instead of friendly name
- 11495 add "whole study" option to "3-rd party" DataLifecycle action
- 11498 Add Minimum value for ROI statistics
- 11506 settings > accounts > unlock is not obvious
- 11539 click through demo pop-up
- 11540 login disclaimer support
- 11541 MPR 1x3 HP thickness setting
- 11542 WL presets condition is a mystery
- 11561 Enable a "marker" on the worklist and list of studies in a folder that would indicate which study/studies they had viewed/loaded.
- 11595 Mammo: Apply backgroundSuppression after breast mapper

## 3.2 Closed Issues

Version: 24.1.0.119293

- 11916 Only the first data morphing policy is executed if there are multiple policies defined
- 11915 PD: filtering by XDS author results in error
- 11895 Reset current not working
- 11807 Timeline launching bug
- 10412 Issue with advanced QC deletes
- 10142 Confusion with XDS ServiceStartTime/Study.PerformedOn value
- 11851 XDS study description is not present
- 11848 XDS report ordering shows original before addendums
- 11809 NilRead responds with 403 (Forbidden) status during CAC login
- 11802 504 Gateway Time-out error after launching NilRead advanced QC from AAP
- 11796 non-dicom handling of 'unknown' formats is broken
- 11772 NilRead Audit Trail (Login) does not show failed login attempts
- 11761 CDA XSL customized files are not copied forward across releases
- 11759 NilRead Mobile user interface issue
- 11733 launching XDS documents via invoke doesn't populate timeline consistently
- 11722 Image title - BlankLine - does not render as a blank line
- 11717 Slow launch with a large number of entries in Hub.SharedConfig
- 11707 NLRD-320 NilRead VNA Provider streaming behavior between versions 22.2.0.117761 & 5.1.11.115014
- 11698 metadata attributes no longer show in dicom attributes popup
- 11697 XDS Document Source configuration issues
- 11679 'ruler' annotation can no longer be added to a custom toolbar

- 11676 Report retrieval over webDicom is not working
- 11662 bottom right block of image titles does not render
- 11637 Any change of server DICOM background task affinity disables storage services
- 11636 FileCache cleaner leaking files
- 11604 potential XSS in Study Note
- 11581 Unable to load study from plaunch study grid
- 10412 Issue with advanced QC deletes

## 4 Outstanding Issues & Warnings

### 4.1 Known Issues

The following are known moderate and higher severity issues in Nil v23.X

Hyland Defect ID	Description	Impact on device effectiveness
10312	Dicom attributes do not work for video (XC) series	Does not affect typical user workflow
11400	Collaboration screen language is not changed immediately	Does not affect typical user workflow
11415	Download from dicom-rs always retrieves the whole study	Does not affect typical user workflow
11710	M3D STL file error	Does not affect typical user workflow
11732	Series "Send to Dicom" action fails for locally created instances when loading from 3-rd party	Does not affect typical user workflow
11766	Zoom integration is not working as desired	Does not affect typical user workflow
11804	Settings > Analytics > Event audit trail: review XDS audit trail events	Does not affect typical user workflow
11824	Slow scrolling on large CTA studies	Does not affect typical user workflow
11868	Series tooltip appears to be sticking to series list	Does not affect typical user workflow
11898	AD Groups area - it is not required to select a group, clicking add works w/o this.	Does not affect typical user workflow
11902	Wrong scope	Does not affect typical user workflow
11917	Option to Show Secure Link Creation Options but not edit does not function-- unable to create link with the instructed configuration	Does not affect typical user workflow
11918	Advanced QC missing current icon when launched from image view series menu and item is KOS	Does not affect typical user workflow



11921	Study Note Templates: Cursor cannot be placed after the table to add new items. <i>Note: to add an empty line before or after the table element, you need to place cursor to the position right before or after the table and use "space" key to make it move to another line. Any other letter would work as well, just don't use the "enter" key. Once you have a text block, the "enter" key would work to create new lines of text.</i>	Does not affect typical user workflow
11924	unexpected warning displayed in timeline	Does not affect typical user workflow
11928	Slice Location is present in block but not in preview	Does not affect typical user workflow
11935	Add support for ECG with non standard channel names	Does not affect typical user workflow
11936	Slow load for particular studies when "Display documents in the viewer" is enabled for SR	Does not affect typical user workflow
11938	viewrestrictedcontent change of behavior	Does not affect typical user workflow

## 4.2 Warnings

Please see the Warnings and Precautions in the On-line help file. Please zoom-out the window to ensure the full information has been displayed. This issue will be fixed in the next release.

# 5 Troubleshooting

## 5.1 Troubleshooting video encoder errors

On some installations saving edited video in video editor or re-encoding video using Lifecycle task may fail with following error shown in the log file:

System.DllNotFoundException: Unable to load DLL 'NilMainConceptWrapper.dll': The specified module could not be found. (Exception from HRESULT: 0x8007007E)

To fix this problem, please install latest Visual Studio 2015 C++ Runtime on the Nil server. The runtime can be downloaded at:

<https://support.microsoft.com/en-ca/help/2977003/the-latest-supported-visual-c-downloads>

The redistributable of the runtime should match server's hardware – most servers use 64-bit processor architecture, and the name of compatible redistributable file is: vc\_redist.x64.exe

## 6 Appendix A

### 6.1 Build Environment

Software	Version
Windows	10.0.17763
Microsoft .NET Core	8.0.0
Microsoft .NET Core SDK	
Visual Studio Professional 2022	17.8.34309.116
Java Runtime Environment	1.8
Google Closure Compiler	20160315.2.0

### 6.2 WIF Dependencies

#### Software Version

### 6.3 3rdParty Dependencies

Software	Version
ADACOMSRVLib	1.0.0.0
ClearCanvas.Common	2.2.45.0
ClearCanvas.Common	2.2.40.0
ClearCanvas.Desktop	2.2.45.0
ClearCanvas.Desktop	2.2.40.0
ClearCanvas.Dicom	2.2.45.0
ClearCanvas.Dicom	2.2.40.0
ClearCanvas.ImageViewer	2.2.45.0
ClearCanvas.ImageViewer	2.2.40.0
DevExpress.AspNetCore.Common.v22.2	22.2.3.0
DevExpress.AspNetCore.Core.v22.2	22.2.3.0
DevExpress.AspNetCore.Reporting.v22.2	22.2.3.0
DevExpress.Data.v22.2	22.2.3.0
DevExpress.DataAccess.v22.2	22.2.3.0
DevExpress.Drawing.v22.2	22.2.3.0
DevExpress.Printing.v22.2.Core	22.2.3.0
DevExpress.XtraCharts.v22.2	22.2.3.0

DevExpress.XtraReports.v22.2	22.2.3.0
DevExpress.XtraReports.v22.2.Web	22.2.3.0
DevExtreme.AspNet.Core	22.2.3.0
DevExtreme.AspNet.Data	2.8.6
Google.Apis.LifeScienceComputerAutomatedDiagnosis.v1	1.44.1.2330
Google.Apis.LifeScienceComputerAutomatedDiagnosis.v1alpha	1.37.0.1
HtmlRenderer.Core	1.0.0.0
HtmlRenderer.WinForms.Core	1.0.0.0
Hyland.DocumentFilters	23.3.0.4823
log4net	2.0.12.2
Optos.Registration	3.2.0.14
PngCs	1.1.4.2
protobuf-net	2.0.0.640
System.Data.SqlServerCe	3.5.8080.0
ZedGraph	5.1.5.0

#### 6.4 NuGet Packages

Software	Version
AWSSDK.Core	3.7.300.1
AWSSDK.S3	3.7.300.1
Azure.Identity	1.10.4
Azure.Storage.Blobs	12.19.1
coverlet.collector	6.0.0
DiscUtils.Iso9660	0.16.13
DocumentFormat.OpenXml	2.20.0
Google.Apis.Auth	1.62.1
Google.Apis.Core	1.62.1
Google.Apis.Storage.v1	1.62.1.3190
Google.Cloud.Storage.V1	4.6.0
HL7.Fhir.R4	5.3.0
HtmlAgilityPack	1.11.54
ITfoxtec.Identity.Saml2	4.8.8

jose-jwt	4.1.0
MailKit	4.2.0
Microsoft.AspNet.WebApi.Client	5.2.9
Microsoft.AspNetCore.Mvc.NewtonsoftJson	6.0.25
Microsoft.CSharp	4.7.0
Microsoft.Data.SqlClient	5.1.2
Microsoft.EntityFrameworkCore	6.0.25
Microsoft.EntityFrameworkCore.Proxies	6.0.25
Microsoft.EntityFrameworkCore.Relational	6.0.25
Microsoft.EntityFrameworkCore.SqlServer	6.0.25
Microsoft.IdentityModel.Tokens.Saml	6.33.0
Microsoft.NET.Test.Sdk	17.6.2
Newtonsoft.Json	13.0.3
NUnit	3.13.3
NUnit3TestAdapter	4.5.0
protobuf-net	3.2.26
QRCoder	1.4.3
Sprache	2.3.1
System.ComponentModel.Composition	6.0.0
System.Data.DataSetExtensions	4.5.0
System.DirectoryServices.Protocols	6.0.2
System.Management	6.0.2
System.Runtime.Caching	6.0.0
System.ServiceModel.Federation	4.10.2
System.ServiceModel.Http	4.10.2
System.ServiceModel.NetTcp	4.10.2
System.ServiceModel.Primitives	4.10.2
System.ServiceProcess.ServiceController	6.0.1
UAParser.FormFactor	3.0.4

## 6.5 CSS/Javascript Dependencies

Software	Version
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Google Closure Library	20160315.0.0
qwest	4.5.0
AngularJS	1.8.0
angular-ui-router	1.0.28
bootstrap	3.3.7
ChartJS	2.9.3
ui-grid	4.8.3
underscore	1.8.3
ui-bootstrap-tpls	2.5.0