PHILIPS

Customer Reference Document

Service information

IntelliSpace Radiology 4 Client Installation and Upgrade Guide

R4.7

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1 Introduction

1.1 Audience

This document is addressed to the PACS Administrators responsible for installing Philips IntelliSpace Radiology Client or managing an upgrade of IntelliSpace Radiology.

1.2 Purpose

This document explains how the Client software for IntelliSpace Radiology-Enterprise and IntelliSpace Radiology are installed. It also provides information on system requirements, Clinical Applications installation, and upgrades.

1.3 Prerequisites

Refer to the chapter Client System Requirements on page 14 section for the complete list of the system requirements for installing Philips IntelliSpace Radiology Client.

NOTICE

Certain plug-ins might need ".NET Framework 3.5, in such cases the ".NET Framework 3.5" should be installed along with ".NET Framework 4.6.1"

If you do not obey these instructions, there is a risk of property damage.

NOTICE

IntelliSpace Radiology can be installed only on a 64bit Operating system. IntelliSpace Radiology-Enterprise can be installed on both 32 bit and 64 bit Operating system.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

IntelliSpace Radiology can be installed only on a 64bit Operating system. IntelliSpace Radiology-Enterprise can be installed on both 32 bit and 64 bit Operating system.

If you do not obey these instructions, there is a risk of property damage.

1.4 Scope and Organization

This document includes the following chapters:

This Introduction, which describes the intended audience for this document, as well as the purpose, structure, and format of this document.

- chapter Overview on page 10
- chapter Standalone Manual Installation on page 23
- chapter Unattended Silent Installation on page 28
- chapter Installing IntelliSpace Clinical Applications on page 47
- chapter Upgrading IntelliSpace Radiology on page 59
- chapter Glossary on page 72

1.5 Conventions

This guide uses the conventions below for special text.

⚠ WARNING

WARNINGS are directions which if not followed could cause fatal or serious injury to a user, patient or other person, or could lead to clinical misdiagnosis, misinterpretation, and/or loss or damage of patient-related data.

If you do not obey these instructions, there is a risk of death or serious injury.

⚠ CAUTION

Cautions are directions which if not followed could cause damage to the IT equipment on which the software product is installed and/or other equipment or goods, and/or cause environmental pollution.

If you do not obey these instructions, there is a risk of minor or moderate injury.

NOTICE

Notices are intended to highlight points of attention as an aid to users.

If you do not obey these instructions, there is a risk of property damage.

IMPORTANT

Vital information that describes how to properly install, configure, or use the system.

NOTICE

Additional information that may help explain an action or procedure.

If you do not obey these instructions, there is a risk of property damage.

This guide also uses the following general format conventions:

- **Consolas Font**

  The following elements are formatted in `Consolas` font:
  - code
  - filenames and filepaths

  For example:
  `DNSCMD /ZONEADD www.microsoft.com /DsFORWARDER 207.46.66.126, 207.68.160.190`
  After typing `ClientApplication.SelectFrom(`, an enumerator displays available Folders lists for the application page.

- **Italic Font**

  The following elements are formatted in *italic* font.
  - Paths and system folder names
  - References to sections or documents
  - A reference to a variable
  - Emphasis on a word or phrase for clarification

- **Bold Font**

  The following elements are formatted in **bold** font.
  - Actions that you do with a mouse or keyboard, such as an **ITEM** to click, open, or select
  - File names

- Application executables, DLLs, etc.
- Classes, functions, methods and variables
- Formatting for subheadings and lead-ins

2 Overview

IntelliSpace Radiology 4.7 includes software for servers, IntelliSpace Radiology 4.7 clients, and IntelliSpace Radiology-Enterprise clients. With the IntelliSpace Radiology Client/IntelliSpace Universal Data Manager architecture and “service delivery” model, the customer’s servers and server software are deployed and managed entirely by Philips Healthcare Informatics. The workstation Client portions of the architecture are deployed and managed by either customer IT staff or by the end user, depending on which party controls the user’s workstation desktop software.

The IntelliSpace Radiology 4.7 server is installed and configured remotely by Philips with you at a mutually convenient time. You are responsible for installing and configuring IntelliSpace Radiology 4.7 and IntelliSpace Radiology-Enterprise Clients. However, Philips IntelliSpace Radiology Customer Care is available 24/7 if assistance is needed.

IMPORTANT

The customer is responsible for configuring the client machine, including anti-virus software and required Microsoft patches.

IMPORTANT

The customer is responsible for the security certificates used by the IntelliSpace Radiology client.

This chapter includes the following topics:

- chapter Installation Options Summary on page 10
- chapter Distribution and Installation on page 11
- chapter Manually Uninstalling IntelliSpace Radiology on page 11
- chapter Verifying that an Installation has been Successful on page 12

2.1 Installation Options Summary

The following chart summarizes the installation options available for IntelliSpace Radiology, including information on distribution, installation, and configuration. You can install the clients in English, Dutch, French, German, Spanish, Portuguese/Brazilian and Italian.

NOTICE

The information in the chart applies after the Server has been upgraded by Philips Technical Support.

If you do not obey these instructions, there is a risk of property damage.

IntelliSpace Radiology Installation Methods

GENERAL	Supported?	SUPPORTED			NOT SUPPORTED
	Access Method	WEB *(IntelliSpace PACS Enterprise only)*	DESKTOP *IntelliSpace Radiology-Enterprise and IntelliSpace Radiology*		
	Attended?	yes	attended	unattended	
	Install Type	one-click	standalone	.MSI	
	Manual?	yes	yes	yes	automated
DISTRIBUTION & INSTALLATION	Step 1: Select the desired installer from the download page	`http://<server_IP>`	`http://<server_ip>/installers`	`http://<server_ip>/installers`	
	Step 2: Make installer available to client workstations.	*N/A (installer is on server and already available)*	*N/A (installer is on server and already available)*	*N/A (installer is on server and already available)*	Distribute installer to clients using automated deployment mechanism (for example, SMS).
	Step 3: Initiate installation.	*N/A (Installation initiated automatically)*	Install client individually on each client workstation.	Execute the installer	Execute the third- party automated process.
	Command line arguments	*N/A*	*N/A*	`msiexec.exe /i "C:\iIntelliSpace PACS Enterprise.msi" /qn ISITE_SERVER_IP_BOX="server name or IP" INSTALLDIR="dierctory for iIntelliSpace PACS Enterprise" INCLUDE_LANGUAGE_AA_AB="1" /l*v! "C:\log.txt"`	Per the third-party vendor's instructions
CONFIGURATION	Step 4: Configure connection to server.	N/A (connection automatically configured)	When prompted by Server Information dialog during installation, enter the hostname or IP address of the server, and click **Install**.		N/A (completed in Step 3)
	Optional: Reconfigure after installation to connect client to a different server.	Change the URL in the Internet Explorer Address Bar	Open the **iSite.ini** file at `C:\Program Files\Philips\IntelliSpace PACS Enterprise or IntelliSpace PACS Radiology \4.4`, change the server IP address in two locations, and save the file.	Open the iSite.ini file at `C:\Program Files\Philips\<ClientName>\<Intelli Space PACS Version>`, change the server IP address in two locations, and save the file.	Open the iSite.ini file at `C:\Program Files\Philips\<ClientName>\ <IntelliSpace PACS Version>`, change the server IP address in two locations, and save the file.
LAUNCH	Step 5: Launch the client.	From a client workstation, open Internet Explorer at URL above	From a client workstation, double-click the desktop client icon.	From a client workstation, double-click the desktop client icon.	From a client workstation, double-click the desktop client icon.

2.2 Distribution and Installation

There are three different installation options for the IntelliSpace Radiology-Enterprise and two for the IntelliSpace Radiology. The installers are not interchangeable: you must deploy each installer by the mechanism appropriate for that installer.

See the following chapters for detailed IntelliSpace Radiology installation information:

- chapter Standalone Manual Installation on page 23
- chapter Unattended Silent Installation on page 28

2.3 Manually Uninstalling IntelliSpace Radiology

Any version of IntelliSpace Radiology (standalone or silent install) can be uninstalled. IntelliSpace Radiology-Enterprise ClientWeb cannot be uninstalled manually.

The following occurs after the software has been uninstalled:

- Files that were copied during installation or used by the client (including temporary files) are removed, except configuration files and log files.
- All configuration settings created during installation or use of IntelliSpace Radiology are reverted, except configuration settings related to configuration files.

- The uninstall is registered with the operating system and appears as an option in the Control Panel Add/Remove Programs.

Only users with administrator rights can uninstall or upgrade IntelliSpace Radiology-Enterprise or IntelliSpace Radiology, regardless of who performed the original installation.

If the user who originally installed the IntelliSpace Radiology-Enterprise on the machine is not available, the Administrator can do the following:

1. Change the user's password.
2. Log on as that user and use Add/Remove Programs,
3. Inform the user of their new password.
4. Log off.

2.4 Verifying that an Installation has been Successful

If an installation is successful, this is indicated in the final dialog box in the installer. To verify that the correct version has been installed, do the following:

1. Check the version number in the IntelliSpace Radiology-Enterprise or IntelliSpace Radiology splash screen
2. Check the version number in Add/Remove Programs for IntelliSpace Radiology-Enterprise or IntelliSpace Radiology.

2.5 Side-by-Side Installations

You can have an older version of the IntelliSpace Radiology clients (such as iSite PACS 3.6) installed on the same machine as the current IntelliSpace Radiology clients. The side-by-side install of the client is supported only if the major version or minor version of the product changes. If the maintenance release version of the product changes, it is an upgrade.

For example, iSite PACS 3.6 and IntelliSpace Radiology 4.7 can be installed side-by-side. IntelliSpace Radiology 4.7 and IntelliSpace Radiology 4.7.1.0 cannot be installed side-by-side, but IntelliSpace Radiology 4.7 can be upgraded to IntelliSpace Radiology 4.7.0.1. Also, in side-by-side support, the uninstall of one of the clients will not affect the other (applicable to Standalone IntelliSpace Radiology-Enterprise and IntelliSpace Radiology (installed by exe and msi installers)).

⚠ CAUTION

Although the software does not prevent users from working concurrently in more than one iSite PACS/IntelliSpace Radiology client on a single workstation (e.g., running both iSite PACS Enterprise 3.6 and IntelliSpace Radiology 4.7, or both IntelliSpace Radiology 4.7 and IntelliSpace Radiology-Enterprise 4.7, at the same time), Philips strongly recommends that users do not work in this configuration. Doing so could cause an inadvertent mismatch of patient data among two or more patients, which in turn could result in misdiagnosis.
For example:

- A user logs into both iSite Enterprise (ISE) 3.6.110.00 and IntelliSpace Radiology 4.7
- In the IntelliSpace PACS Enterprise 3.6 client, the user opens an exam in the Canvas Page.
- The user then switches to the IntelliSpace Radiology 4.7 client.
- In the IntelliSpace Radiology 4.7 client, the user opens a second exam belonging to a different patient in the Canvas Page.
- The user then opens the Clinical Information: Exam Notes dialog to add an Exam Note.
- With the IntelliSpace Radiology 4.7 Exam Note dialog open, the user switches to the iSite 3.6 client. The iSite 3.6 client is now the active window, BUT the IntelliSpace Radiology 4.7 Exam Notes dialog remains on top of the iSite 3.6 client.
  Depending on how the user's monitors are set up, the user can still make notes in the IntelliSpace Radiology 4.7 Exam Notes dialog while the iSite 3.6 client still appears to be the active window. The user is able to look at the images in the iSite 3.6 Canvas Page while making notes in the IntelliSpace Radiology 4.7 Exam Notes dialog.
  In this sample scenario, therefore, a user could enter data based on one patient's exam into another patient's exam.

If you do not obey these instructions, there is a risk of minor or moderate injury.

3 Client System Requirements

System requirements vary, depending on whether the user will run IntelliSpace Radiology or IntelliSpace Radiology-Enterprise with or without IntelliSpace Clinical Applications. Philips Customer Care can provide the latest IntelliSpace Radiology system requirements for the Client.

IntelliSpace Volume Vision is the 2D/3D/4D enhanced viewing application part of IntelliSpace Clinical Applications R8.2, bundled with the comprehensive IntelliSpace Radiology solution. IntelliSpace Clinical Applications R8.2 is shipped only in combination with IntelliSpace Radiology and is not available for the iSite PACS 3.6 or 4.1 installed base.

The installers check for appropriate software and hardware requirements of the client machine. A notification displays and the installation stops if the minimum requirements are not met.

⚠ WARNING

The IntelliSpace Radiology-Enterprise and IntelliSpace Radiology client workstations must use monitors and video cards as recommended in the chapter Client System Requirements on page 14 section . Not doing so may result in incorrect measurements or inadequate image quality.
Diagnostic monitors for mammography reading in IntelliSpace Radiology must adhere to the specifications provided in the chapter Client System Requirements on page 14 section. Not doing so may result in inadequate image quality or missing critical data at time of diagnosis.
Mammographic images may only be interpreted using a United States Food and Drug Administration (FDA) approved monitor that offers at least 5 megapixel resolution and meets other technical specifications reviewed and accepted by the United States FDA, or the corresponding agency in your country.
The IntelliSpace Radiology-Enterprise and IntelliSpace Radiology client workstations must have at least the minimum recommended amount of RAM in order for IntelliSpace Radiology to operate correctly.
It is the user's responsibility to ensure that Philips network performance recommendations for IntelliSpace Radiology are met.

If you do not obey these instructions, there is a risk of death or serious injury.

Local Folder Permissions

The folders below require read/write permissions for ISR application:

- C:\Users\Public\Philips\
- C:\Users\<username>\AppData\Local\PPM\
- C:\Users\<username>\AppData\LocalLow\iSite\
- C:\Users\<username>\Documents\My IMediaExport\

NOTE

- This is the default path. If the user changes the path in ISR preference, then permission needs to be provided accordingly for the new path.

The folders below require read permissions for the ISR application and write permission for the installers:

- C:\Program Files\Philips\
- C:\Program Files\Stentor\
- C:\Program Files\Common Files\Philips\
- C:\Program Files (x86)\Common Files\Philips\

NOTE

- ISR application requires write permission for the above folder path if auto upgrade is enabled.

NOTICE

IntelliSpace Radiology stores all timestamp information in GMT. Microsoft Windows then localizes this information so that all timestamps are presented in local time (as configured on the workstation). Because Microsoft may make changes in its operating systems to account for Daylight Savings Time in various time zones around the world, please ensure that user machines have the most current Microsoft updates installed so that correct times are displayed in IntelliSpace Radiology reports and in the timeline.

If you do not obey these instructions, there is a risk of property damage.

IMPORTANT

IntelliSpace Radiology supports only the Latin-1 character set.

NOTICE

It is the customer's responsibility to ensure that Philips network performance recommendations for IntelliSpace Radiology 4.7 and higher versions are met. Minimum network adapters on workstations should be 100 Mb/s with 100 Mb/s end-to-end connection to the server. Sites reading large studies such as large CTs/MRs (number of slices > 1000) and mammography tomosynthesis studies require a 1 GB/s network adapter and 1 GB/s end-to-end connection to the server.

Hard disk requirements will depend on the usage of the Local Exam Caching functionality. Adequate free disk space needs to be reserved based on the number of exams that are expected to be cached into the workstation. The max cache size is computed by IntelliSpace Radiology or Enterprise based on the free available space on the OS drive.

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If you do not obey these instructions, there is a risk of property damage.

3.1 IntelliSpace PACS Anywhere

	Minimum
CPU	-
RAM	4 GB
Graphics Card	-
Diagnostic Displays	-
Navigation Monitor	1280 x 1024 True Color
Browser Compatibility	• Internet Explorer 10 and 11 • Firefox 33.1 and higher • Chrome 37.0 and higher • Safari 6 and higher • Microsoft Edge
OS Compatibility	• Windows 10, 32 bit or 64 bit • Windows 11 • OS X • iOS 8 and iOS 9 on iPad 3 and above • Android 4.0 and higher
Additional Software	-

NOTICE

IntelliSpace Anywhere is not suited for usage on mobile phones.

If you do not obey these instructions, there is a risk of property damage.

3.2 IntelliSpace Radiology-Enterprise System Requirements

3.2.1 IntelliSpace Radiology-Enterprise without Volume Vision (IntelliSpace Clinical Applications R8.2)

	Minimum
CPU	Intel i5 two logical processors @ 2.5 GHz or higher
RAM	4 GB
Graphics Card	Mid-range graphics card
Diagnostic Displays	-
Navigation Monitor	1280 x 1024 True Color
OS and Browser Compatibility	Windows 11 with Microsoft Edge Windows 10 with Internet Explorer 11 + Microsoft Edge
Additional Software	Adobe Acrobat Reader

NOTICE

IntelliSpace Radiology-Enterprise will run on a 64 bit OS using 32 bit emulation mode.

If you do not obey these instructions, there is a risk of property damage.

IMPORTANT

Volume Vision is a module of IntelliSpace Clinical Applications.

3.2.2 IntelliSpace Radiology-Enterprise with Volume Vision (IntelliSpace Clinical Applications R8.2)

	Minimum
CPU	Intel i5 with four logical processors @2.5 GHz or higher
RAM	6GB or more
Graphics Cards	Mid-range graphics card with OpenGL 3.2 support, 1 GB on-board memory
Diagnostic Display	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide-screen color monitor
Navigation Monitor	1280 x 1024 True Color
OS and Browser Compatibility	Windows 11 with Microsoft Edge Windows 10 with Internet Explorer 11 + Microsoft Edge
Additional Software	Adobe Acrobat Reader

NOTICE

IntelliSpace Radiology-Enterprise will run on a 64 bit OS using 32 bit emulation mode.

If you do not obey these instructions, there is a risk of property damage.

IMPORTANT

Volume Vision is a module of IntelliSpace Clinical Applications.

3.2.3 IntelliSpace Radiology-Enterprise with Cardiology Viewer R1

	Minimum
CPU	Intel i5 four logical processors @ 2.5 GHz or higher
RAM	6GB
Graphics Cards	Mid-range graphics card with OpenGL 3.2 support, 1 GB on-board memory (Optional)
Diagnostic Display	Two 2, 3 or 5 Mega Pixel Color or Grayscale monitors or One 4, 6 or 8 Mega Pixel Wide screen Color monitor (Optional)
Navigation Monitor	1280 x 1024 True Color
Browser Compatibility	Internet Explorer 10 and 11
OS Compatibility	Windows 10, 32 bit or 64 bit
Additional Software	.NET FrameWork 3.5 SP1 Adobe Acrobat Reader

NOTICE

IntelliSpace Radiology-Enterprise will run on a 64 bit OS using 32 bit emulation mode.

If you do not obey these instructions, there is a risk of property damage.

3.2.4 IntelliSpace Radiology-Enterprise with IntelliSpace Advanced Clinical Applications - CT Portal 9.0

	Minimum
CPU	Intel i5 four logical processors @ 2.5 GHz or higher
RAM	6GB
Graphics Cards	Mid-range graphics card with OpenGL 3.2 support, 1 GB on-board memory
Diagnostic Display	Two 2, 3 or 5 Mega Pixel Color or Grayscale monitors or One 4, 6 or 8 Mega Pixel Wide screen Color monitor (Optional)
Navigation Monitor	1280 x 1024 True Color
Browser Compatibility	Internet Explorer 10 and 11
OS Compatibility	Windows 10, 32 bit or 64 bit
Additional Software	.NET FrameWork 3.5 SP1 Adobe Acrobat Reader

NOTICE

IntelliSpace Radiology-Enterprise will run on a 64 bit OS using 32 bit emulation mode.

If you do not obey these instructions, there is a risk of property damage.

3.3 IntelliSpace Radiology System Requirements

3.3.1 IntelliSpace Radiology without Advanced Mammography

	Minimum
CPU	Intel six logical processors or more @ 2.5 GHz or higher
RAM	16 GB or more
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Diagnostic Display	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide screen color monitor Two 5 MP monitors, 510K cleared- Required for Mammo
Navigation Monitor	1280 x 1024 True Color
OS and Browser Compatibility	Windows 11 with Microsoft Edge Windows 10 with Internet Explorer 11 + Microsoft Edge
Additional Software	Adobe Acrobat Reader

Minimum specifications listed for client workstations “without tomosynthesis” are sufficient for large CT/MR studies.

IMPORTANT

Advanced Mammography includes viewing of tomosynthesis studies.

3.3.2 IntelliSpace Radiology with Advanced Mammography

	Minimum
CPU	Intel twelve logical processors or more @ 2.5 GHz or higher
RAM	24 GB or more
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Diagnostic Display	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide screen color monitor Two 5 MP monitors, 510K cleared- Required for Mammo
Navigation Monitor	1280 x 1024 True Color
OS and Browser Compatibility	Windows 11 with Microsoft Edge Windows 10 with Internet Explorer 11 + Microsoft Edge
Additional Software	Adobe Acrobat Reader

IMPORTANT

Advanced Mammography includes viewing of tomosynthesis studies.

3.3.3 IntelliSpace Radiology with IntelliSpace Clinical Applications R8.2

	Minimum
CPU	6 Logical CPUs or more @ 2.5 GHz or higher
RAM	16 GB or more
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Diagnostic Display	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide screen color monitor
Navigation Monitor	1280 x 1024 True Color
OS and Browser Compatibility	Windows 11 with Microsoft Edge Windows 10 with Internet Explorer 11 + Microsoft Edge
Additional Software	.NET FrameWork 3.5 SP1 Adobe Flash Player/Adobe Acrobat Reader

3.3.4 IntelliSpace Radiology with IntelliSpace Advanced Clinical Applications - CT Portal 9.0

	Minimum
CPU	6 Logical CPUs or more @ 2.5 GHz or higher
RAM	16 GB or more
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Diagnostic Display	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP widescreen color monitor
Navigation Monitor	1280 x 1024 True Color
Browser Compatibility	Internet Explorer 10 and 11
OS Compatibility	Windows 10, 64bit
Additional Software	.NET FrameWork 3.5 SP1 Adobe Flash Player/Adobe Acrobat Reader
Remote (home) connection bandwidth	5 Mbit/sec or higher
Network adapter speed	100 Mbit/sec or better

No other applications running on client. If running more than two applications at the same time, then use recommended specifications

The RAM requirement also needs to be in consideration of the operating system.

1024 x 768 is supported as a minimum only for navigation if another higher resolution (1280 x 1024 or higher) color monitor is available for IntelliSpace Clinical Applications.

For all graphics cards, use the latest driver version provided by the manufacturer, such as NVIDIA, ATI, Barco or Eizo.

- For systems with a 32-bit operating system, effective performance improvement can be expected from graphics cards with up to 1 GB memory. Cards with more memory should only be used with the very latest video drivers in order to avoid adverse impact on available system memory for images, especially when multiple graphics cards are installed. With a 64-bit operating system, the memory restriction for the graphics card is removed, so 2 GB or even 4 GB cards will work OK.

- Video memory above 1 GB will not contribute to the ability to read larger datasets. The better processing capabilities of the high-end cards will improve rendering performance. Guidelines for graphics cards:

Graphics card guidelines for Volume Vision MPR, MIP and 3D acceleration, using OpenGL 3.2 or higher: Recommended brands:	
nVidia brand:	Quadro- and Quadro FX graphics cards and GeForce graphics cards
ATI brand:	FirePro graphics cards
Eizo:	Firepro Graphic cards v4900
Barco:	MXRT graphics cards
Graphics card onboard memory:	1.0 GB loads up to 1600 images of 512x512 16-bit (CT/MR) 2.0 GB loads up to 1600 images of 512x512 16-bit (CT/MR)

Diagnostic monitors (either grayscale or color) must be DICOM-calibrated for grayscale response.

Supported operating systems and compatibility with browsers:

- Windows 10, 64 bit with Internet Explorer 11

For power users viewing large multi-frame data series or cine clips, 4 GB is recommended.

3.3.5 IntelliSpace Radiology Workspace Solution without Advanced Mammography

	Minimum
CPU	Intel six logical processors or more @ 2.5 GHz or higher with a turbo frequency of at least 3.0 GHz
RAM	16 GB or more
OS	Windows 10, 64bit
Diagnostic Displays	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide screen color monitor Two 5 MP monitors, 510K cleared- Required for Mammo
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Browser compatibility	IE 11 only
Additional Software	Adobe Acrobat Reader

IMPORTANT

IntelliSpace Radiology Workspace Solution incorporates: Advanced Workflow Solution, Canvas, Workflow Cockpit and IntelliSpace Radiology. Please contact your Philips representative for version compatibility.

3.3.6 IntelliSpace Radiology Workspace Solution with Advanced Mammography

	Minimum
CPU	Intel twelve logical processors or more @ 2.5 GHz or higher with a turbo frequency of at least 3.0 GHz
RAM	24 GB or more
OS	Windows 10, 64 bit

	Minimum
Diagnostic Displays	Two 2, 3, or 5 MP color or grayscale monitors; one 4 or 6 MP wide screen color monitor Two 5 MP monitors, 510K cleared- Required for Mammo
Graphics Cards	High-end graphics card with OpenGL 3.2 support, 2 GB on-board memory
Browser Compatibility	IE 11 only
Additional Software	Adobe Acrobat Reader

IMPORTANT

IntelliSpace Radiology Workspace Solution incorporates: Advanced Workflow Solution, Canvas, Workflow Cockpit and IntelliSpace Radiology. Please contact your Philips representative for version compatibility.

3.4 API Integrations

It is important to keep in mind that system plug-ins will be loaded and used by every IntelliSpace Radiology-Enterprise or IntelliSpace Radiology workstation in the enterprise so it is important to govern what is loaded. Here are a few additional best practice guidelines.

- Avoid using plug-ins for easy access to non-internal web sites. Navigating the internet within IntelliSpace Radiology can load Flash, Media viewer, html scripting modules, or other services which would use additional system resources normally reserved for IntelliSpace Radiology. Such use of memory and CPU resources needed by IntelliSpace Radiology can negatively impact end user response time.
- Be sure to correctly setup plug-ins that do not use the IntelliSpace Radiology API. Incorrect setups can lead to crashes throughout the enterprise. Be sure that the option **Disable API** is checked for plug-ins that do *not* integrate with IntelliSpace Radiology using the API. When in doubt, do not uncheck this option.
- We recommend that you add memory beyond the minimum system requirements if you plan to install and use plug-ins.
- You should only use plug-ins that support Windows 10 and Internet Explorer 10 or 11, 64 bit in emulation mode.

⚠ CAUTION

Running third-party software on IntelliSpace Radiology workstations can greatly impact the amount of memory available to IntelliSpace Radiology, and can therefore impact the RAM requirements. Also, third-party applications can cause potential problems within the application.

If you do not obey these instructions, there is a risk of minor or moderate injury.

3.5 Citrix Support

Citrix enables users to access virtualized enterprise applications using the XenApp plug-ins for accessing IntelliSpace Radiology- Enterprise to image-enable your enterprise.

The validation includes:

- IntelliSpace Radiology- Enterprise, SUBI, and client deployments.

The validation does not include:

- IntelliSpace Radiology, third-party plug-ins, printing and media export functionality in IntelliSpace Radiology- Enterprise.

- The compatible Citrix Server versions are XenApp 7.15 (Windows Server 2008 Standard R2), XenApp 7.17 (Windows Server 2012 Standard R2), and Citrix Virtual Apps and Desktops 7 2112 (Windows Server 2019 Standard R2).

NOTICE

Philips is not responsible for maintaining Citrix Servers and the customer's IT department is responsible for fielding questions and resolving issues. Once the XenApp is launched and connected to the Citrix server, Philips can resume regular troubleshooting activities.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

- The .MSI installer works for Citrix environments.
- The three-second SLA does not apply in the Citrix environment.
- Citrix Servers are located within the LAN and in the "Main Location".
- Users accessing through XenApp will not be allowed to change the INI settings.

If you do not obey these instructions, there is a risk of property damage.

4 Standalone Manual Installation

This chapter includes the following topics:

- chapter Overview on page 23
- chapter Standalone Installer File Locations on page 23
- chapter IntelliSpace Radiology-Enterprise Standalone Installation on page 24
- chapter IntelliSpace Radiology Standalone Installation on page 25

4.1 Overview

This chapter describes how PACS Administrators and IT staff can install IntelliSpace Radiology-Enterprise or IntelliSpace Radiology on a Client workstation for the first time.

In a standalone installation, you place the installer in a location that can be accessed by all end-users (for example, on a shared network drive or on a CD). Then the appropriate `.exe` installer is run on each Client workstation to install the IntelliSpace Radiology in the desired language. In addition to the language chosen on individual workstations, English is always installed.

In the standalone manual installation method, the server information you enter is placed in the configuration file (in the root directory of the folder where the IntelliSpace Radiology was installed). When you launch the IntelliSpace Radiology-Enterprise or IntelliSpace Radiology Client, the Client reads the information in this file and connects to the server specified. To connect the Client to a different server (other than the one you specified during installation), change the server information in the configuration file, save the file, and restart the Client.

Note the following:

- The default language used to install IntelliSpace Radiology is the workstation's default language. However, the language used to install IntelliSpace Radiology can be changed by the user via a drop-down menu when the installation begins. If desired, additional languages can be specified after the initial installation. However, to do this IntelliSpace Radiology must first be uninstalled and then reinstalled with a different set of languages.
- In addition to the chosen installation language, English is always installed.
- You cannot have different versions of IntelliSpace Radiology-Enterprise or IntelliSpace Radiology on the same machine.

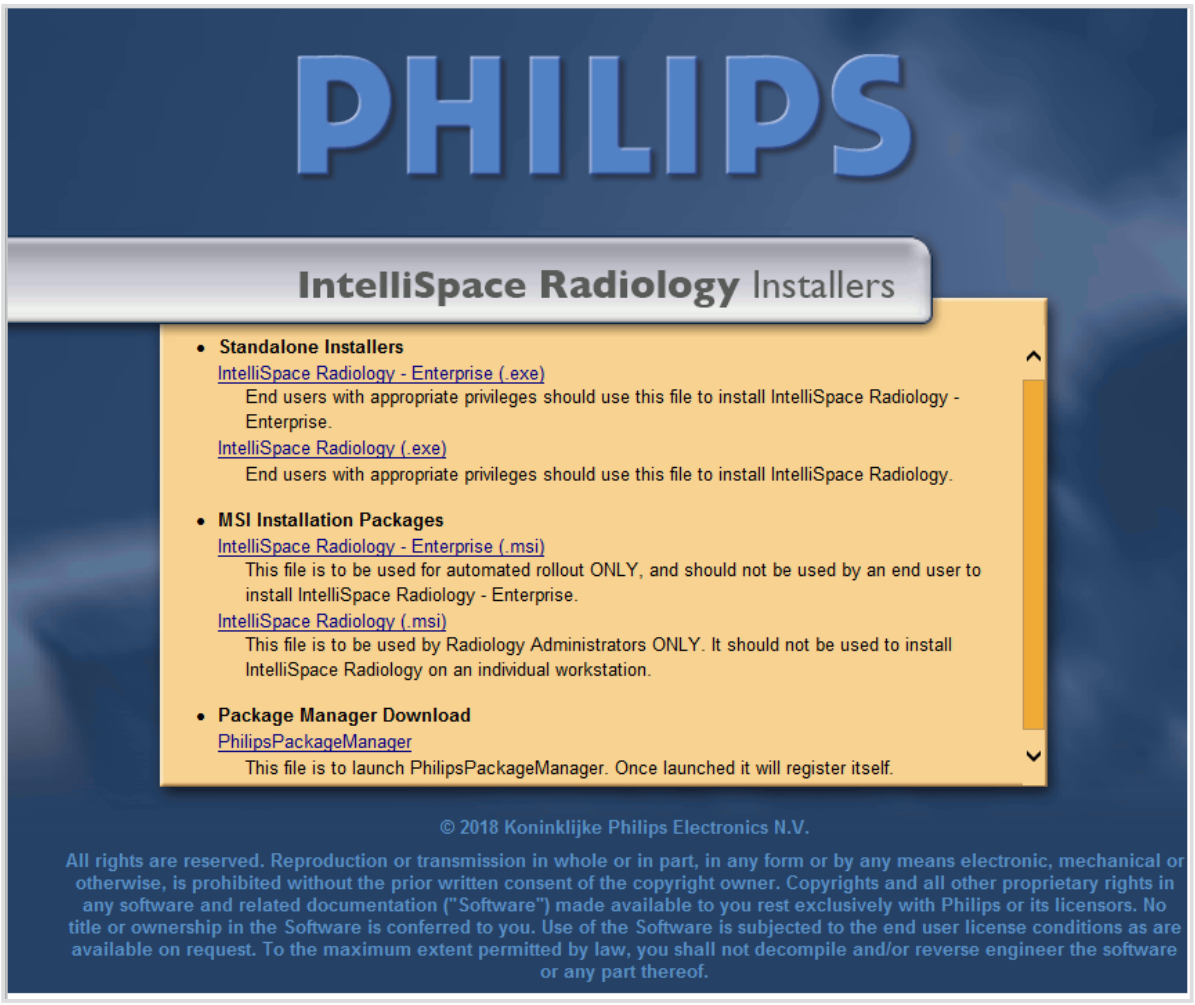
NOTICE

IntelliSpace Radiology supports Side By Side installation, which accommodates installation of more than one version of IntelliSpace Radiology clients in a single machine. See chapter Side By Side Installation - IntelliSpace Radiology 4.7 on page 25**. In the machines where Side By Side Installation is present, the** `isite.ini` **file can be located only in the following path:** `<drive>\Program Files\Philips\Intellispace PACS Radiology\`**. Right clicking on the IntelliSpace Radiology desktop icon in the machines with Side By Side installation will take you to** `%CommonProgramFiles%\Philips\ISPACSClientLauncher` **folder path.**

If you do not obey these instructions, there is a risk of property damage.

4.2 Standalone Installer File Locations

Philips provides a customer viewable download page as part of the standard server install.



Use the following links for standalone installations of IntelliSpace Radiology-Enterprise and IntelliSpace Radiology:

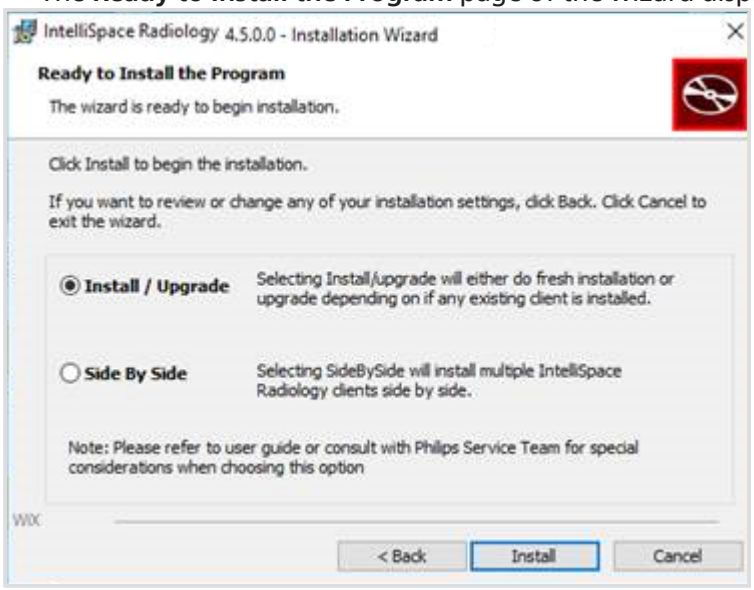
- `IntellispacePACSEnterpriseSetup.exe` – the EXE installer for IntelliSpace Radiology-Enterprise for end-users, provided they have the proper privileges.
- `IntellispacePACSRadiologySetup.exe` – the EXE installer for IntelliSpace Radiology for end-users, provided they have the proper privileges.

4.3 IntelliSpace Radiology-Enterprise Standalone Installation

1. On the Client workstation, access the download page at `https://`*<servername_or_IP>*`/ClientWeb/installers/`.
2. Select `IntellispacePACSEnterpriseSetup.exe`.
3. Select the desired setup language and click **OK**.
4. Click **Next**.
5. Select the desired languages and options in the **Custom Setup** dialog box.
6. Click **Next**.
7. In **Client Configuration Info**, enter the hostname or IP address of the server and click **Install**. (This page only displays the first time you install IntelliSpace Radiology on the client workstation.)
8. When the installation is complete, click **Finish**.

4.4 IntelliSpace Radiology Standalone Installation

1. On the Client workstation, access the download page.
2. Select `IntellispacePACSRadiologySetup.exe`.
3. Select the desired setup language and click **OK**.
4. Click **Next**.
5. Choose a **Setup Type** of **Complete** or **Custom** and click **Next**.
6. In **Client Configuration Info**, enter the hostname or IP address of the IntelliSpace Radiology server (this page only displays the first time you install IntelliSpace Radiology on the client workstation), and click **Next**.
   The **Ready to Install the Program** page of the wizard displays.



7. Select the **Install / Upgrade** radio button to either perform a fresh installation or an upgrade. Incase of an upgrade the existing version of the IntelliSpace Radiology application will be overwritten.
8. Click Install to proceed.
9. When the installation is complete, click **Finish**.
   A desktop shortcut will be created to launch the application from the desktop.

NOTICE

By selecting the Install/Upgrade option, all the previous version(s) of IntelliSpace Radiology client will be uninstalled. Incase if the silent installation method is used then, only one of the oldest version of the IntelliSpace Radiology client will be uninstalled. Refer chapter Command Line Examples on page 31 **for more information.**

If you do not obey these instructions, there is a risk of property damage.

NOTICE

For any hot fix release installation, the desktop shortcut name of IntelliSpace Radiology will display only the major version of the product and will not display the hot fix release version.
Example: If IntelliSpace Radiology of 4.7.0.1 is installed in a client workstation, the desktop shortcut name will be “IntelliSpace Radiology 4.7.0” and not IntelliSpace Radiology 4.7.0.1.

If you do not obey these instructions, there is a risk of property damage.

4.4.1 Side By Side Installation - IntelliSpace Radiology 4.7

Side By Side installation allows you to install three versions of IntelliSpace Radiology on the same machine.(4.7.1.0, 4.7.0.2 and any one version lesser than 4.7.1.0 for example, 4.7.0.1).

This section will guide you to perform the Side-by-Side installation of the IntelliSpace Radiology application.

NOTICE

In the machines where Side By Side Installation is present, the `isite.ini` file can be located only in the following path: `<drive>\Program Files\Philips\Intellispace PACS Radiology\`. Right clicking on the IntelliSpace Radiology desktop icon in the machines with Side By Side installation will take you to `%CommonProgramFiles%\Philips\ISPACSClientLauncher` folder path.

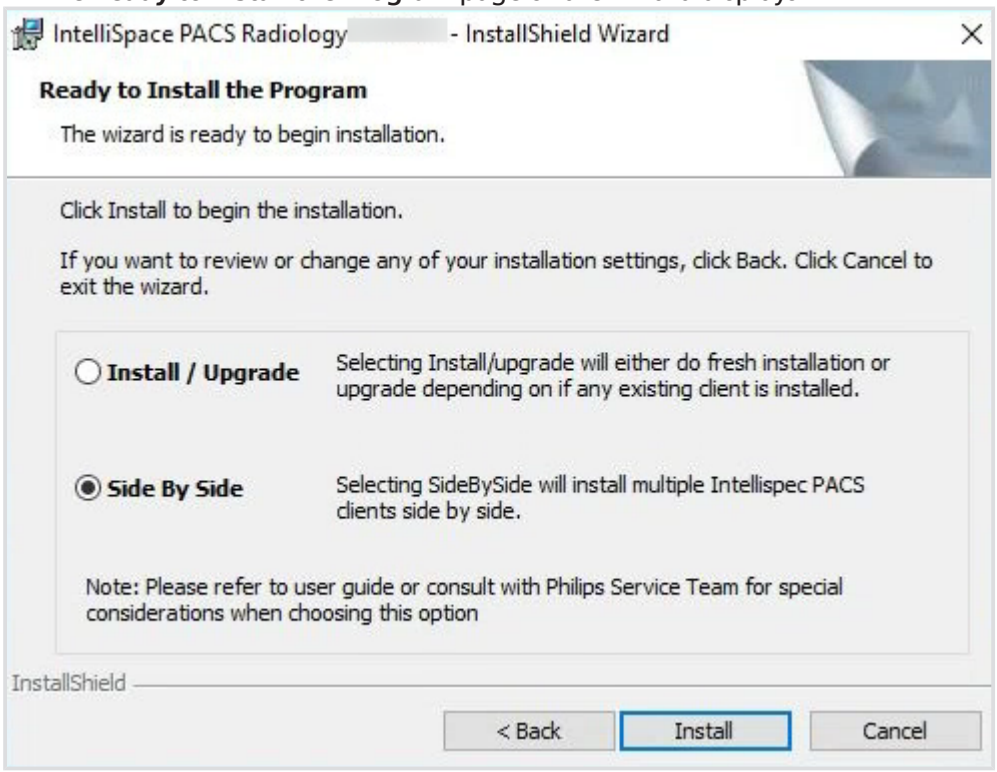
If you do not obey these instructions, there is a risk of property damage.

Prerequisites

Any IntelliSpace Radiology version lower to IntelliSpace Radiology 4.7 should be installed prior to installing IntelliSpace Radiology 4.7 application.

Follow these steps to the perform the Side by Side installation:

1. On the Client workstation, access the download page of IntelliSpace Radiology 4.7.
2. Select `IntellispacePACSRadiologySetup.exe`.
3. Select the desired setup language and click **OK**.
4. Click **Next**.
5. Choose a **Setup Type** of **Complete** or **Custom** and click **Next**.
   The **Ready to Install the Program** page of the wizard displays.



6. Select the **Side By Side** radio button.
7. When the installation is complete, click **Finish**.
8. Now you can see the desktop icons for multiple version of the InteliiSpace Radiology.
   - For 4.7.0.1 version: **IntelliSpace Radiology _4.7.0.1**
   - For earlier versions: **IntelliSpace Radiology**

NOTICE

Once Side By Side installation is successfully performed, the Machine Preferences of the earlier version will be automatically mirrored to the 4.7 version.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

When upgrading to IntelliSpace Radiology 4.7 in a system where multiple PACS clients are installed, it is recommended to install IntelliSpace Radiology 4.7 using Side-by-Side mode, and uninstall the version that was meant to be upgraded.

If you do not obey these instructions, there is a risk of property damage.

5 Unattended Silent Installation

This chapter contains the following topics:

- chapter Overview on page 28
- chapter Silent Install Command Line Parameters on page 30
- chapter Logging on page 32
- chapter Determining if a Silent Installation has Completed and is Successful on page 34
- chapter Uninstalling a Silent Installation on page 34.
- chapter Automated Installation on Remote Machines (not supported) on page 34

5.1 Overview

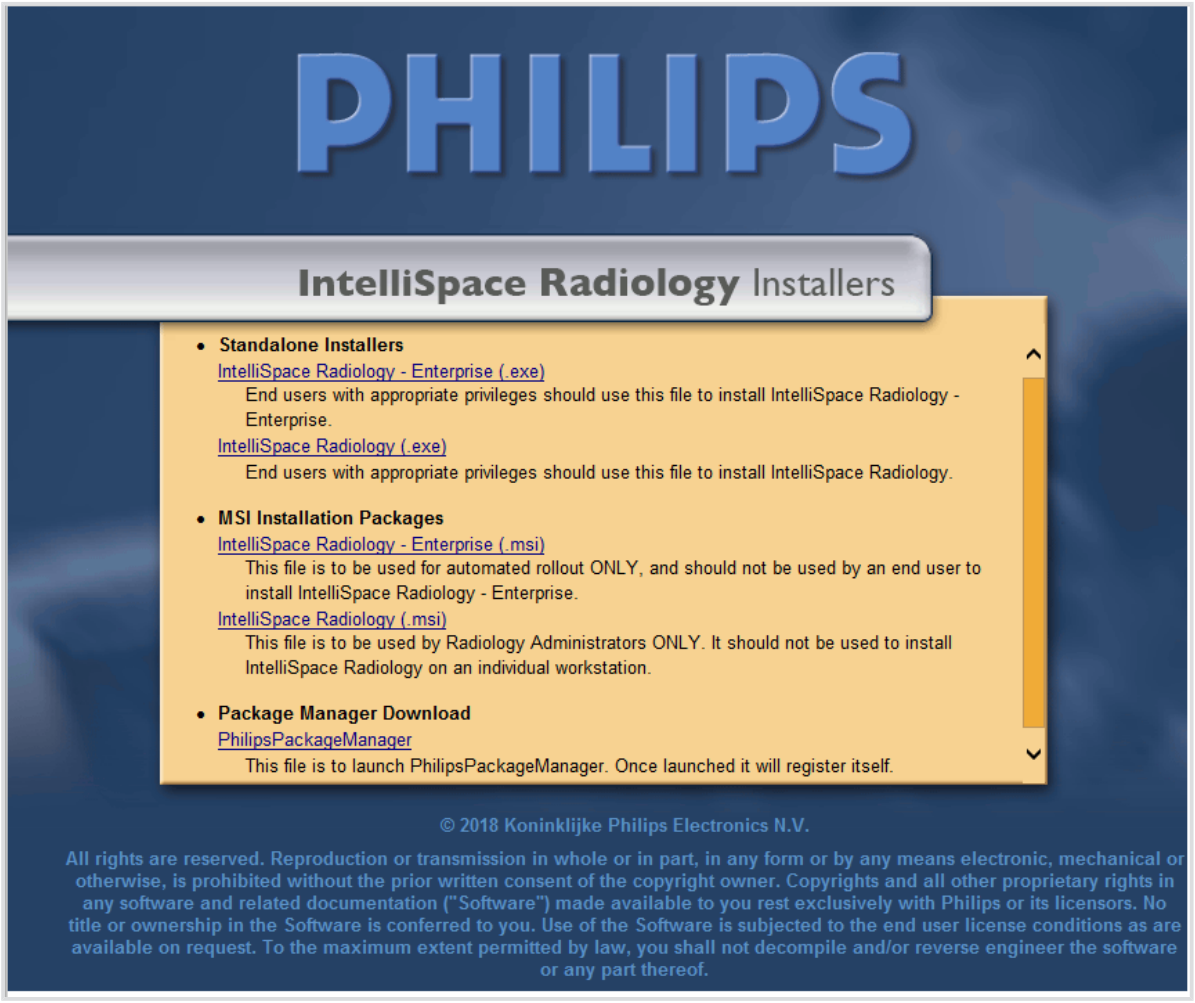
To install IntelliSpace Radiology-Enterprise or IntelliSpace Radiology silently (without visual indicators or prompts for user input), the IT department can execute an *.msi* file installer from the command line to install the IntelliSpace Radiology-Enterprise Client to a single workstation. This method is most often used when the IT department controls the software content of user workstations or when user workstations are distributed in different physical locations.

In the unattended silent installation method, the server information you enter is placed in the configuration file (in the root directory of the folder where the IntelliSpace Radiology Client was installed).

When you launch the IntelliSpace Radiology-Enterprise Client, the Client reads the information in this file and connects to the server specified. To connect the Client to a different server (other than the one you specified during installation), change the server information a configuration file and save the file.

To determine if a silent installation has succeeded, you must specify that the silent installation creates a log file and check the log file. See chapter Logging on page 32. If the operation failed, the log displays the string “Installation operation failed.” If a crash occurs during silent installation, no string is displayed in the log and the installation will be considered to be unsuccessful.

Philips provides a customer viewable download page as part of the standard server install.



Use the following links for unattended silent installations of IntelliSpace Radiology-Enterprise or IntelliSpace Radiology :

- `IntelliSpace Radiology - Enterprise.msi` – the MSI installer for automatic rollout of IntelliSpace Radiology-Enterprise. This file should not be used by an end-user to install IntelliSpace Radiology-Enterprise.
- `IntelliSpace Radiology.msi` – the MSI installer for automatic rollout of IntelliSpace Radiology .

NOTICE

Philips does not provide Automation scripts for mass deployment and does not support the mass deployment of Philips products.

If you do not obey these instructions, there is a risk of property damage.

Note the following differences when installing the ocx version or the full standalone version:

- If you install the OCX version instead of the full standalone version, there is no desktop shortcut. The user must start IntelliSpace Radiology-Enterprise by opening Internet Explorer.
- The ocx control is installed either through ClientWeb or through the silent installer with the OCX-only command line parameter. See .

5.2 Silent Install Command Line Parameters

The following table describes the command line parameters used in the silent installation of IntelliSpace Radiology-Enterprise or IntelliSpace Radiology . See chapter Command Line Examples on page 31 for sample command lines.

Silent Install Command Line Parameter	Description/Example	First-time install	Upgrade install	Uninstall
/qn	Indicates that the install requires no user interface and has no progress bar.	Mandatory	Mandatory	Mandatory
ISITE_SERVER_IP_BOX	Specifies the name or IP address of the server to which the Client should connect. There is no default value. If a value is not entered, the user must manually modify the configuration file after installation. Example: ISITE_SERVER_IP_BOX="10.10.10.10"	Recommended	Prohibited (not enforced)	Prohibited (not enforced)
INSTALLDIR	Directory where IntelliSpace Radiology-Enterprise or IntelliSpace Radiology should be installed. If no path is specified, the default installation directory for a full installation is used (%ProgramFiles%\Philips\IntelliSpace PACS{Enterprise|Radiology}\<version>). Example: INSTALLDIR="c:\IntelliSpace Radiology-Enterprise"	Optional	Prohibited (enforced)	Prohibited (not enforced)
INCLUDE_LANGUAGE_AB_CD="1"	Two character abbreviations for the languages supported in the release you are installing. The first abbreviation is the language, and the second abbreviation is the region. Note that EN-US is always included and cannot be specified separately. Example: INCLUDE_LANGUAGE_NL_NL="1"	Optional	Prohibited (enforced)	Prohibited (not enforced)

Silent Install Command Line Parameter	Description/Example	First-time install	Upgrade install	Uninstall
/l*v!	Invoke the installation using verbose logging. This can affect performance but is necessary for troubleshooting and for programmatically detecting if the install has completed successfully. Example: /l*v! "c:\log.txt"	Recommended	Recommended	Recommended
INSTALL_OCX_VERSION=”1”	Installs only the OCX version of the product.	Optional	Optional	Optional
/X	Invoke the uninstallation.	Prohibited	Prohibited	Mandatory
INSTALLATIONTYPE=1	Use this command to perform an **Install / Upgrade** of the IntelliSpace Radiology application.	Optional	Optional	Prohibited
INSTALLATIONTYPE=2	Use this command to perform a Side By Side installation of the IntelliSpace Radiology application **NOTE:** This command will be supported only by *IntelliSpace Radiology* and not *IntelliSpace Radiology - Enterprise* users.	Optional	Optional	Prohibited

5.2.1 Command Line Examples

The following command line would install IntelliSpace Radiology application:

- `msiexec.exe /i "c:\IntelliSpace PACS Radiology.msi" /qn ISITE_SERVER_IP_BOX="10.10.10.10" INSTALLDIR="" INSTALLATIONTYPE=1`

The following command line would upgrade IntelliSpace Radiology application:

- `msiexec.exe /i "c:\IntelliSpace PACS Radiology.msi" /qn INSTALLDIR="" INSTALLATIONTYPE=1`

NOTE

To retain the `isite.ini` file configuration, **AUTOUPGRADE** value should be set to **TRUE** in `isite.ini` file while upgrading Clients using command line arguments.

NOTICE

By using the INSTALLATIONTYPE=1, only one of the oldest version of the IntelliSpace Radiology client will be uninstalled.

If you do not obey these instructions, there is a risk of property damage.

The following command line would perform the Side By Side Installation of the IntelliSpace Radiology application:

- `msiexec.exe /i "c:\IntelliSpace PACS Radiology.msi" /qn ISITE_SERVER_IP_BOX="10.10.10.10" INSTALLDIR="" INSTALLATIONTYPE=2`

The following command line would install IntelliSpace Radiology with verbose logging and include the Dutch language.

```
msiexec.exe /i "c:\IntelliSpace PACS Radiology.msi" /qn
ISITE_SERVER_IP_BOX="10.10.10.10" INSTALLDIR="c:\iSite\4.4"
INCLUDE_LANGUAGE_NL_NL="1" INSTALL_OCX_VERSION="1" /l*v! "c:\log.txt"
```

The following command line could be used for an upgrade:

```
msiexec.exe /i "c:\IntelliSpace PACS Radiology v.1.1.msi" /qn/
INCLUDE_LANGUAGE_NL_NL="1" /l*v! "c:\foo.txt"
```

NOTICE

When upgrading to IntelliSpace Radiology 4.7 in a system where multiple PACS clients are installed, it is recommended to install IntelliSpace Radiology 4.7 using Side-by-Side mode, and uninstall the version that was meant to be upgraded.

If you do not obey these instructions, there is a risk of property damage.

Refer chapter Side By Side Installation - IntelliSpace Radiology 4.7 on page 25 for more information on Side-By-SIde installation.

5.3 Logging

There are two ways to log a Windows Installer installation:

- Individually (per install)
- Per-machine (for all MSI installs of any software on that machine): Does not require a separate manual command line parameter and can log installations that the user doesn't initiate directly, such as through the ClientWeb or Auto-Upgrade. However, it logs all installations, even those the user might not be interested in.

Logging slows down an installation by up to 100%. Therefore, if you can do individual logging (per install), do so. Otherwise, do a per-machine logging, then turn it back off again when you are done.

5.3.1 Per-execution logging (for standalone and local machine .msi installations)

For installer files ending in `.msi`:

```
msiexec.exe /i "c:\IntelliSpace PACS Enterprise.msi" /l*v! "c:\log.txt"
```

or

```
msiexec.exe /i "c:\IntelliSpace PACS Radiology.msi" /l*v! "c:\log.txt"
```

For installer file sending in `.exe`:

```
IntelliSpacePACSEnterpriseSetup.exe /V"/l*v! \"c:\log.txt\""
```

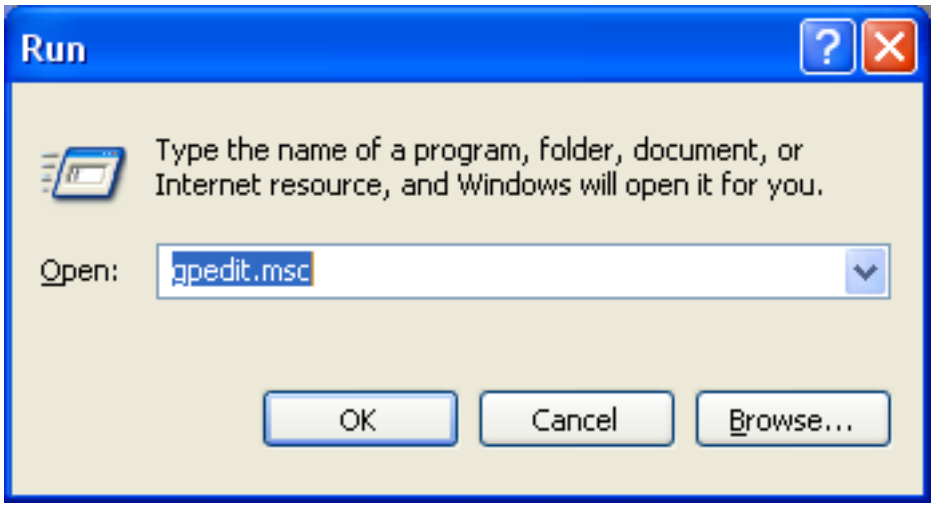
or

```
IntelliSpacePACSRadiologySetup.exe /V"/l*v! \"c:\log.txt\""
```

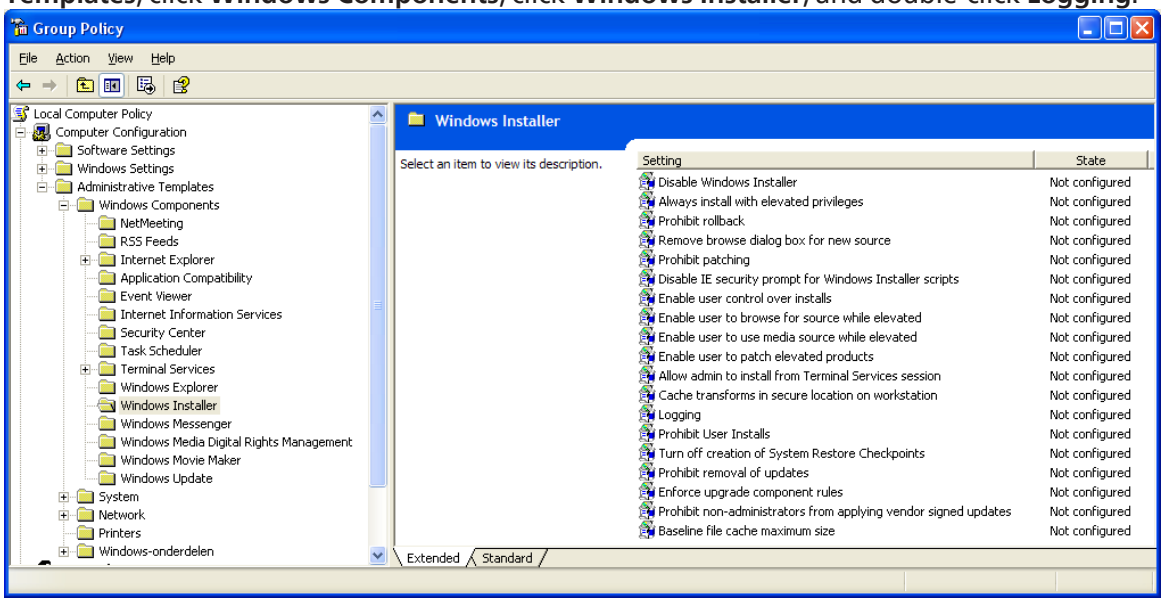
Make sure to Copy and Paste these lines, because the capitalization and spacing is critical.

5.3.2 Machine-wide logging (required for logging ClientWeb and Auto-Upgrade installations)

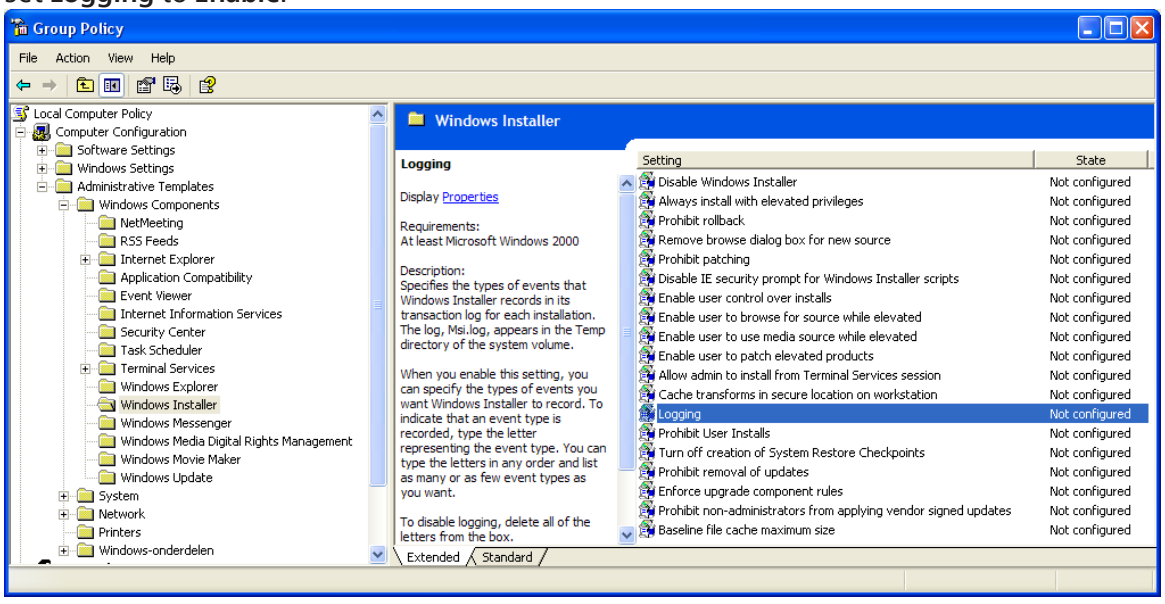
1. From the **Start** menu, select **Run** and enter `gpedit.msc`.



2. In the **Local Computer Policy** tab, click **Computer Configuration**, click **Administrative Templates**, click **Windows Components**, click **Windows Installer**, and double-click **Logging**.



3. Set **Logging** to **Enable**.



4. Enter the string provided in the dialog box, `voicewarmup!`, in the **Logging** text field and click **OK**.
5. Close the **Group Policy Editor**.

After you have performed these steps, in the `%TEMP%` folder, whenever a file that uses Windows Installer technology (regardless of whether it ends in **.msi** or **.exe**) is run, a new file with the name `MSI*.log` will be created. You can enter the string `"%TEMP%"` without quotes in the Address Bar of Windows Explorer to find that folder for the user executing the installation.

5.4 Determining if a Silent Installation has Completed and is Successful

You can use following methods to detect if a silent installation has competed and whether or not it has been successful:

- Call the installer (from the command line or other), and wait for the call to return. After it has returned, the installation may not yet have been completed because the Microsoft Windows Installer process (msiexec.exe) is a client-server model which runs asynchronously. If you use this method, you must invoke the installation using verbose logging. Use the “tail” or similar command to poll the Log file (for example, every five seconds). When it has completed, it will contain one of the following strings at the end of the log:

  Success:
  “Installation operation completed successfully.”
  Failure:
  “Installation operation failed.”
- If you use the MsiInstallProduct() method, check the result code returned from the function. msiInstallProduct() returns ERROR_SUCCESS or a detailed error code.

5.5 Uninstalling a Silent Installation

You use the following command line parameters to uninstall a silent installation. The required fields are in bold.

```
msiexec.exe /X "c:\IntelliSpace PACS Enterprise.msi" /qn /l*v! "c:
\foo.txt" or
msiexec.exe /X "c:\IntelliSpace PACS Radiology.msi" /qn /l*v! "c:\foo.txt"
```

You must specify the identical .msi file which was originally used to install the product. If you do not have it, you can use the following command:

```
msiexec.exe /X{GUID} /qn
```

where {GUID} is the Product Key of the to-be-uninstalled installation. The product key can be obtained from the registry. One of the GUIDs in HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall is the product key. Each GUID has multiple string values. To find the product key for IntelliSpace Radiology-Enterprise or IntelliSpace Radiology , check the DisplayName and DisplayVersion string values.

5.6 Automated Installation on Remote Machines (not supported)

The IntelliSpace Radiology-Enterprise client.msi installer has been verified to install silently from the command line on a single workstation. Deploying to multiple workstations may be achieved using third-party deployment mechanism (for example, Group Policy, SMS, or Marimba). With mass deployment mechanisms, however, it is *your responsibility* to configure your third-party software and to ensure that installation via your selected method works properly.

When running the ".msi" version of the Client installer, on Windows 10 and 11, a UAC Administrator must manually pre-elevate the process from which he is executing the installer.

IMPORTANT

Philips recommends setting up a test environment to verify installation on a limited number of Clients before fully deploying the installation to all Clients.

6 ClientWeb Installation

6.1 Overview

The ClientWeb installation method allows you to install IntelliSpace Radiology-Enterprise by pointing the Internet Explorer or Microsoft Edge to the web page URL (provided by the customer PACS administrator or IT department) of the customer's IntelliSpace Servers. Upon navigation to that URL, you can click a link to install IntelliSpace Radiology-Enterprise if the version of the Client available on the Server is not already installed on that user's workstation.

The ClientWeb link can be added to a hospital Intranet after the server has been installed. Any user, with or without administrative rights, can click on that link and load the most recent version of IntelliSpace Radiology-Enterprise.

During a ClientWeb install, an installation progress bar is displayed. Successful completion of a ClientWeb install is indicated by the appearance of the IntelliSpace Radiology-Enterprise login screen. The ClientWeb install does not place a configuration file on the workstation. Instead of using a configuration file, a URL is entered into the IE or Microsoft Edge browser to point to the correct server.

The installer for IntelliSpace Radiology-Enterprise web Clients has changed from the ActiveX model available in some earlier releases to one utilizing Microsoft Windows Installer (MSI) technology. The installation package for IntelliSpace Radiology-Enterprise resides on the IntelliSpace Radiology web server and cannot be run from any other location. If the web server is running a higher version or Maintenance Release of IntelliSpace Radiology-Enterprise than the Client, a download page is displayed, allowing the user to click a link to download the correct version.

Note the following:

- If a user connects to two different servers running two different versions of IntelliSpace Radiology-Enterprise, the ClientWeb installation method activates whichever version of the software is required by the server.
- If the IntelliSpace Radiology-Enterprise Client was installed via ClientWeb and it accesses a server at a higher Version Maintenance Release level, the newer Version Maintenance Release level is automatically initiated and completed before the IntelliSpace Radiology-Enterprise login screen is displayed. If the installation fails, there may no longer be a valid IntelliSpace Radiology-Enterprise Client on the workstation and a new install needs to be reinitiated by pointing the Internet Explorer or Microsoft Edge browser to the server.
- If you install via the .msi or standalone methods (.exe), Philips does not support the coexistence of multiple versions of the client. To avoid problems (for example, conflicts with shared applications), Philips strongly recommends that you upgrade your site to the newer version of IntelliSpace Radiology-Enterprise Client after test deployment has been successfully completed, and remove all older Client versions.

6.2 ClientWeb in Microsoft Edge Browser

The Internet Explorer 11 desktop application is retired and has gone out of support on June 15, 2022, for certain versions of Windows 10 onwards. Hence, we have provided Microsoft Edge browser support for our ClientWeb application.

Now ClientWeb can be launched using the URL: `https://<FQDN>/ClientWeb` in both Internet Explorer 11 and Microsoft Edge browsers.

6.2.1 Launching ClientWeb

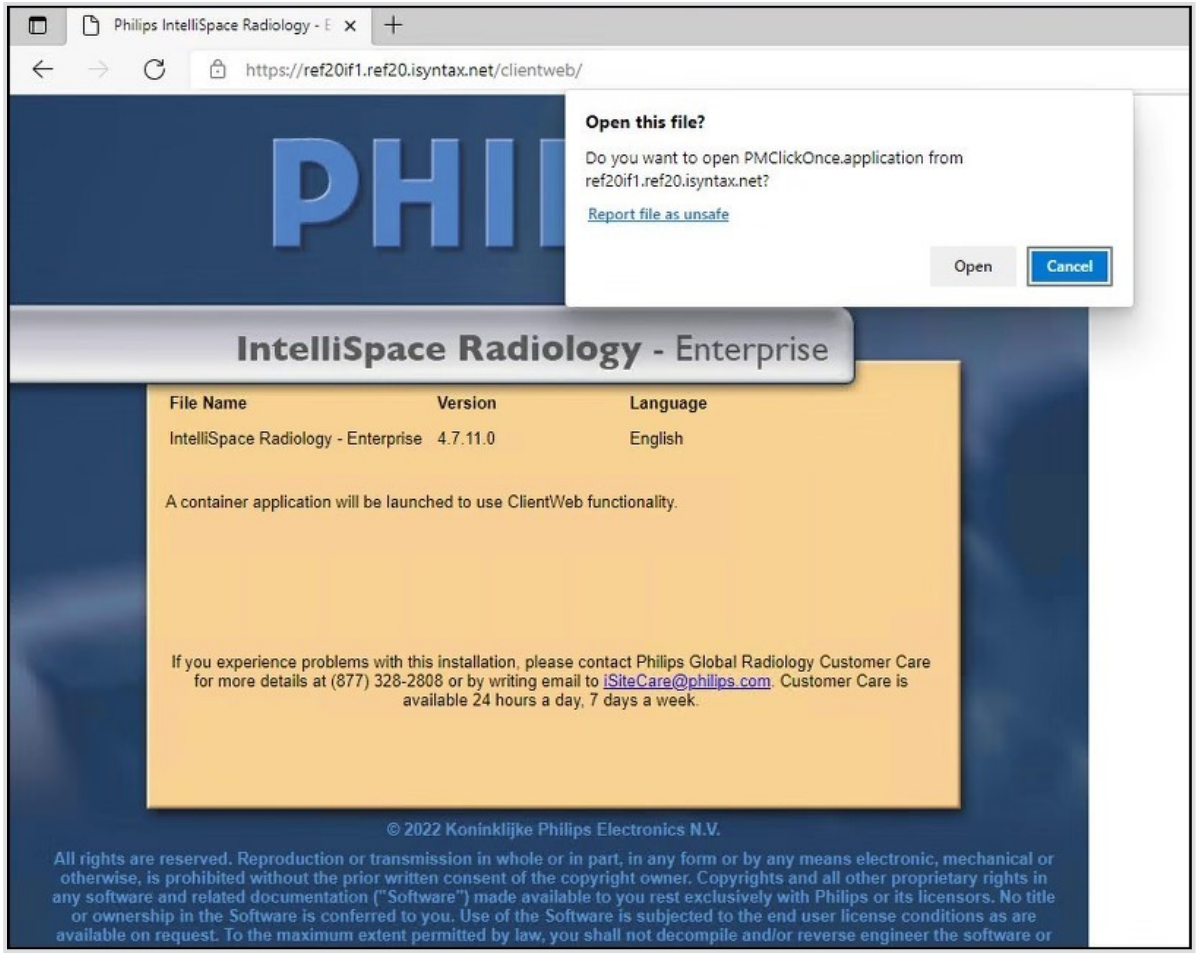
From a Client workstation, open the Microsoft Edge browser and enter `https://<FQDN>/ClientWeb`. This launches the new installation of the IntelliSpace Radiology-Enterprise.

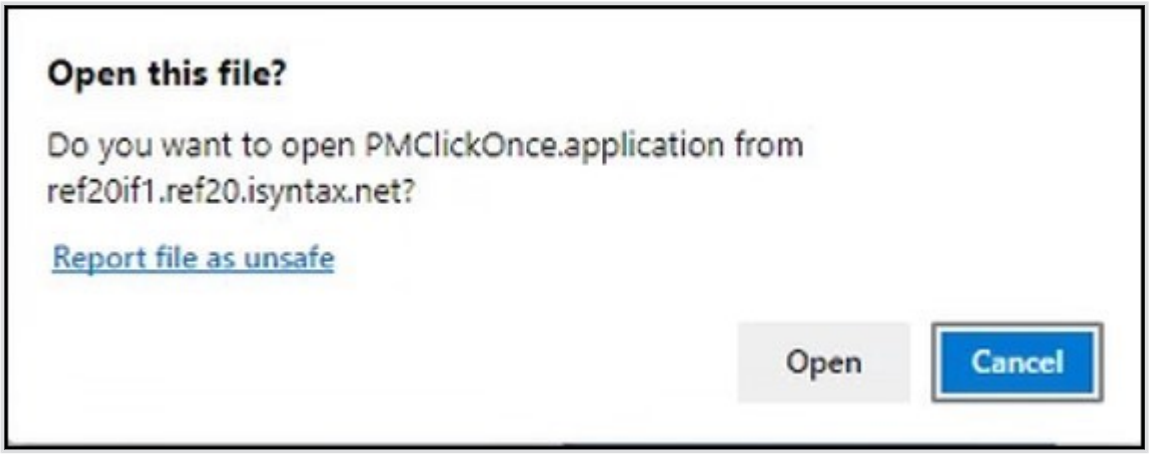
6.2.2 Deploying the Package Manager

Fresh Client Machine

ClickOnce deployment is used to download and launch the Philips Package Manager executable. It is part of the .NET framework, starting with version 2.0, and enables users to install and launch the application using a dialog box.

During fresh installation, when ClientWeb URL: `https://<FQDN>/ClientWeb` is launched in the Microsoft Edge browser, a popup with the message **Do you want to open PMClickOnce.application** will be displayed. Users can either choose the option **Cancel** or **Open** to continue.



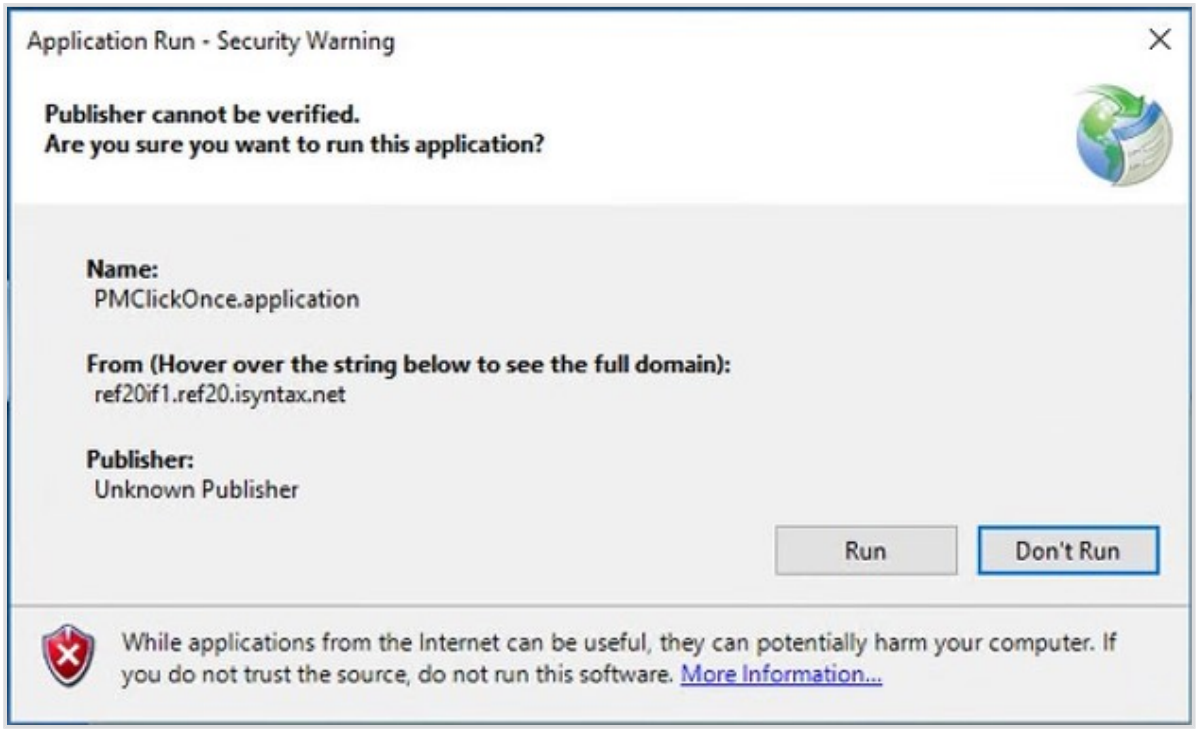


NOTICE

- The client machine must have a .Net version greater than 2.0 to launch PMClickOnce.application.
- The above-shown popup message in the client machine which is under **DOMAIN** can be suppressed by applying the Group level Microsoft Edge policies in the domain controller as mentioned in the chapter Enable Group Level Policies for MS Edge on page 41.

If you do not obey these instructions, there is a risk of property damage.

If option **Open** is selected, the below dialog box will be launched to install the application.



When the user clicks **Run** on the dialog box, the Package Manager is launched which downloads, registers, and launches a containment application that provides the ClientWeb functionalities.

NOTICE

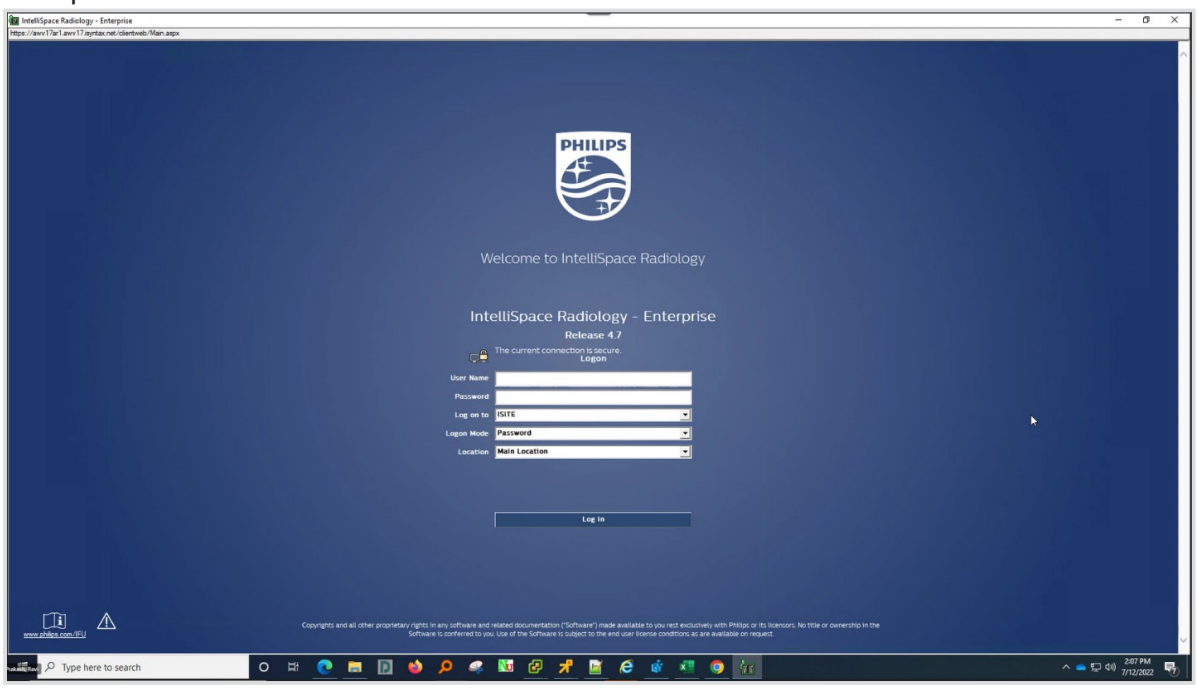
If ClickOnce fails to launch Package Manager, the Package Manager can be launched from the `https://<server>/installers` page.

If you do not obey these instructions, there is a risk of property damage.

If .NET 2.0 or newer is not installed, the Package Manager is launched instead of ClickOnce. Note the following file locations for the Package Manager:

Item	Location
Packages on the server	`https://<server>/InfrastructureServices/PackageService/PackageService.svc/packages`
Deployed package version	`https://<server>/InfrastructureServices/PackageService/PackageService.svc/Philips/ISE/deployed`
Package Manager version	`https://<server>/InfrastructureServices/PackageService/PackageService.svc/Philips/PPM/deployed`
Log file	`%PUBLIC%\Philips\PM`

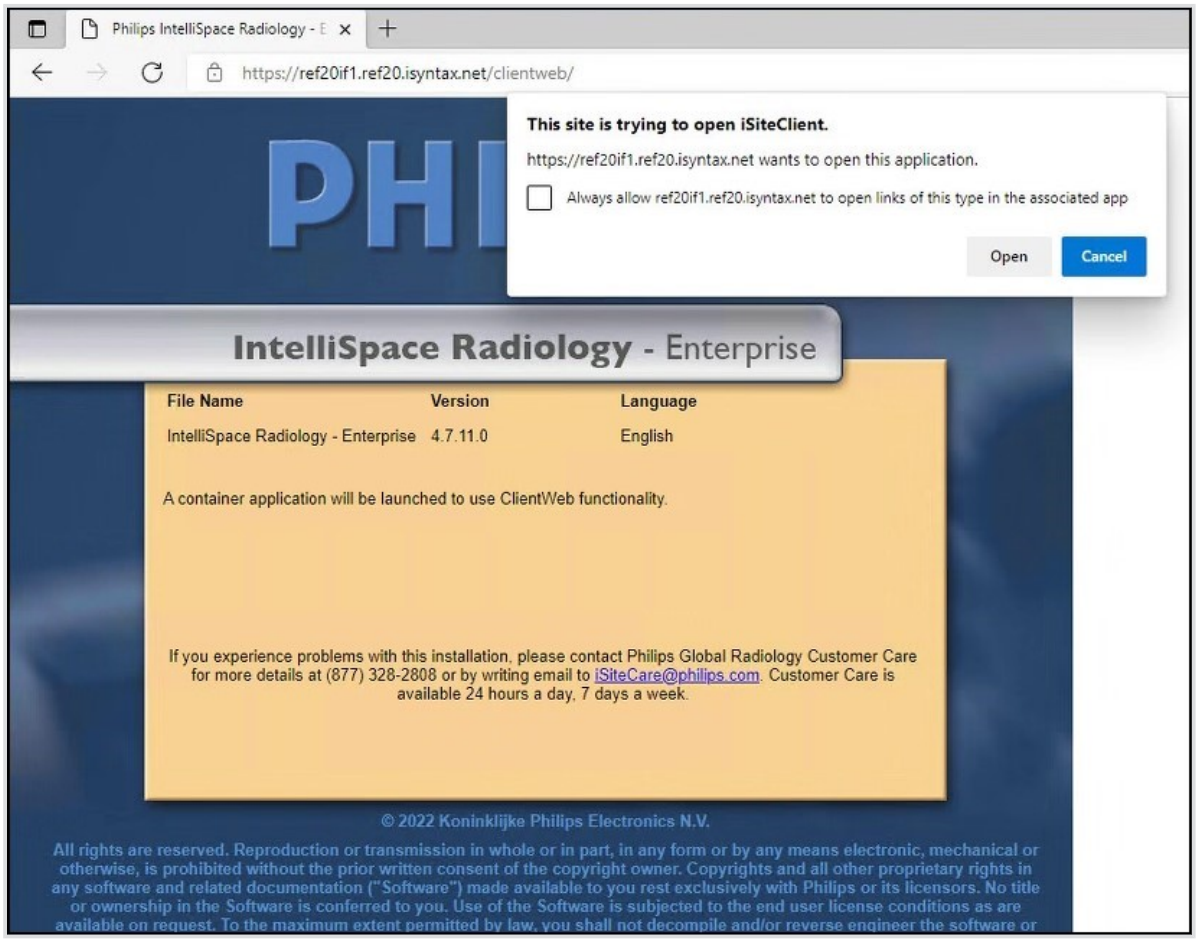
Once installation is complete, a containment application will open and IntelliSpace Radiology-Enterprise will be launched.



Relaunching ClientWeb within the Session

In case it is not a fresh installation, on refreshing the same Edge browser tab with URL: `https://<FQDN>/ClientWeb`, a popup with the message **The site is trying to open iSiteClient** will be displayed.

If user selects the option **Open**, the containment application will open and IntelliSpace Radiology-Enterprise will be launched.



NOTICE

- The above-shown popup message in the client machine which is under **DOMAIN** can be suppressed by applying the Group level Microsoft Edge policies in the domain controller as mentioned in the chapter Enable Group Level Policies for MS Edge on page 41.
- For the client machine under **WORKGROUP**, the user can enable the checkbox to suppress the popup message which appears each time when the Edge browser tab is refreshed.

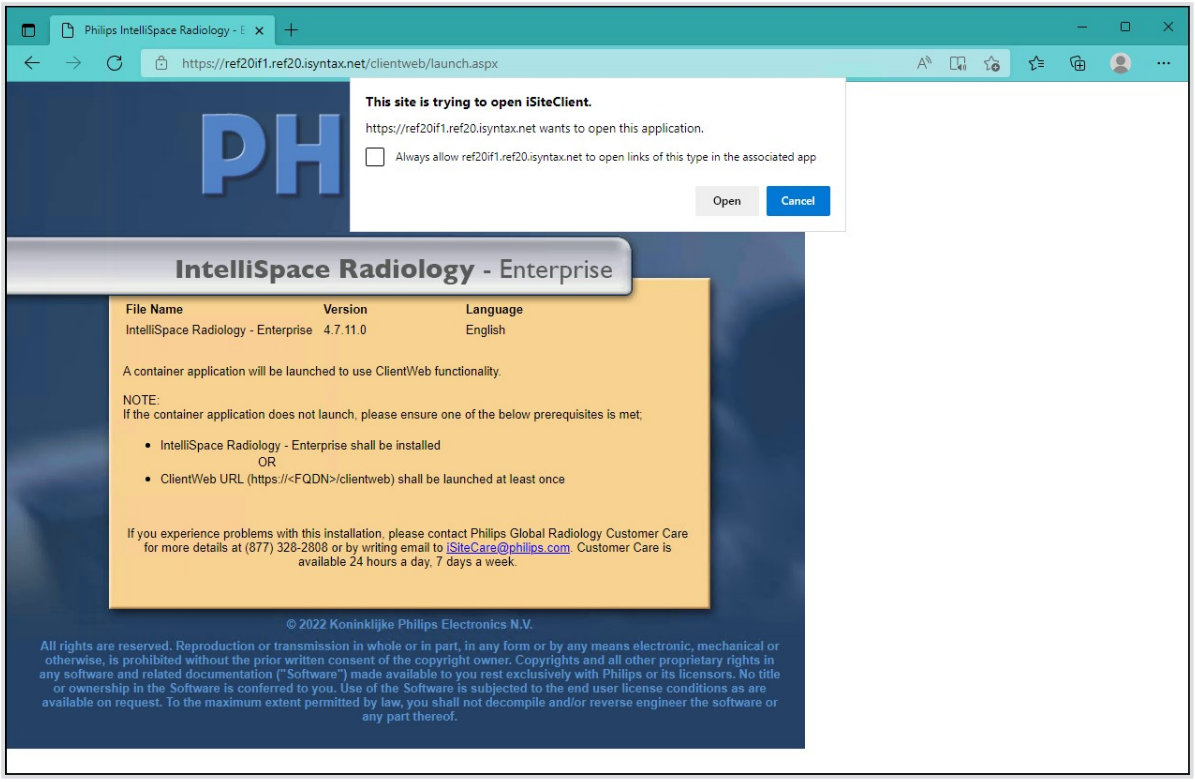
If you do not obey these instructions, there is a risk of property damage.

6.2.3 Launching ClientWeb in Citrix Client

- For Citrix users, it is required that the IntelliSpace Radiology - Enterprise desktop application must be installed on the CITRIX Server by using either .msi or .exe installer file.
- Once, the above condition is sufficed, Citrix users can launch URL: `https://<FQDN>/Clientweb/Launch.aspx` in Citrix client machines to access ClientWeb.

From a Citrix Client workstation, open Microsoft Edge browser and enter `https://<FQDN>/Clientweb/Launch.aspx`.

This launches the containment application to facilitate the ClientWeb functionalities.



NOTICE

The above-shown popup message in the Citrix client machine which is under **DOMAIN** can be suppressed by applying the Group level Microsoft Edge policies in the domain controller as mentioned in the chapter Enable Group Level Policies for MS Edge on page 41.

If you do not obey these instructions, there is a risk of property damage.

6.3 Enable Group Level Policies for MS Edge

New popup messages will be shown during the launch of ClientWeb for each new session opened in the browser which can be suppressed by applying the Group level MS Edge policies.

NOTICE

This is applicable for Client machines under **DOMAIN** only.

If you do not obey these instructions, there is a risk of property damage.

Pre-requisites

Download and install the Microsoft Edge administrative template (this step must be performed at the Domain level).

Follow the below steps to download and install administrative templates for Edge:

1. From the Microsoft Edge Enterprise landing page (`https://www.microsoft.com/en-us/edge/business/download`), download the Windows Policy files.
2. Extract the contents of the file that is downloaded.
3. Navigate to the `Windows/admx` folder in the above-extracted folder.

4. Copy `msedge.admx` file from the above extracted folder and paste it in `C:\Windows\PolicyDefinitions` folder.
5. Copy `msedge.adml` file from language folder (whichever is applicable) and paste it in corresponding language folder under `C:\Windows\PolicyDefinitions` folder.
6. Make sure that the pop-up blocker is turned off.

NOTICE

The Edge version installed must be of the same or higher version to the Edge administrative templates installed.

If you do not obey these instructions, there is a risk of property damage.

Steps to Apply Group Level Policies

1. Open the **Group Policy Management Editor** to make changes in the Domain Controller.
2. On the left pane, navigate to **Computer Configuration → Policies → Administrative Templates: Policy definitions (ADMX files) retrieved from the local computer → Microsoft Edge**.
   Below polices require to be enabled as shown in *Fig. 1: Group Policy Management Editor (for Domain)*.
   - **Define a list of allowed URLs**.
   - **List of file types that should be automatically opened on download**.
   - **URLs where AutoOpenFileTypes can apply**.

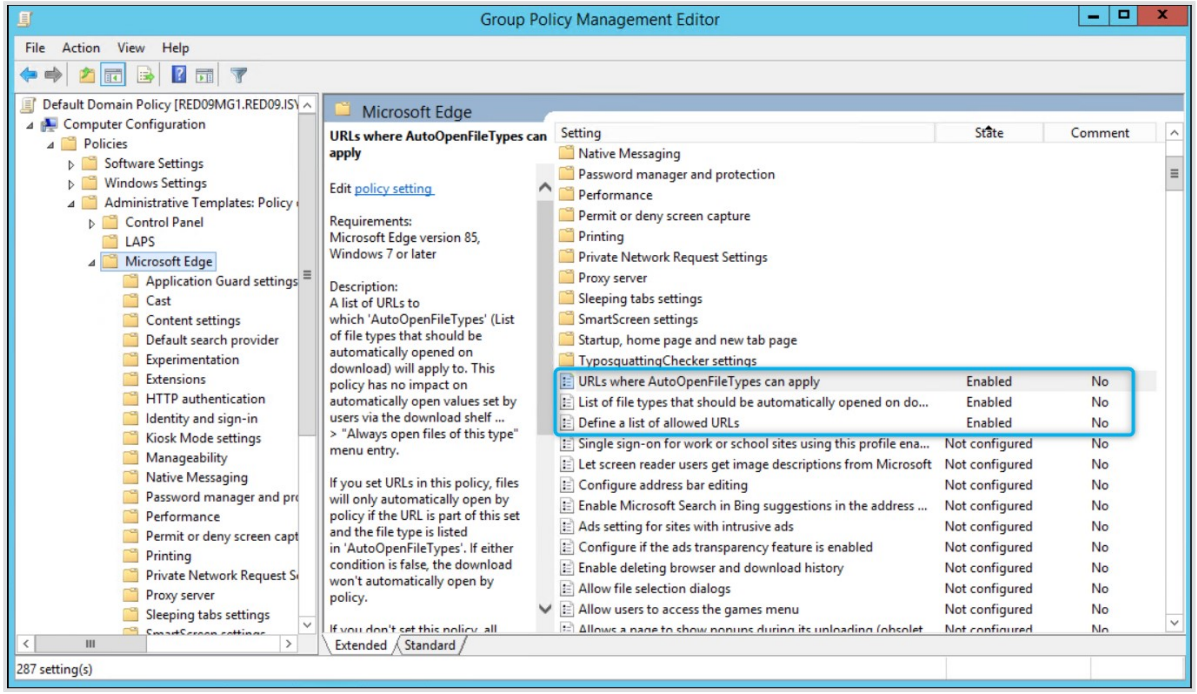


Fig. 1: Group Policy Management Editor (for Domain)

3. Double click on the **Define a list of allowed URLs** policy.
   Follow the below steps to enable and configure the value to the policy:
   - Select the **Enabled** option.
   - Click the **Show** button to configure the **Value: PhilipsWebBrowserApp://*** as shown in the *Fig. 2: Define a list of allowed URLs*.
   - Click the **OK** button.
   - Click the **Apply** button.

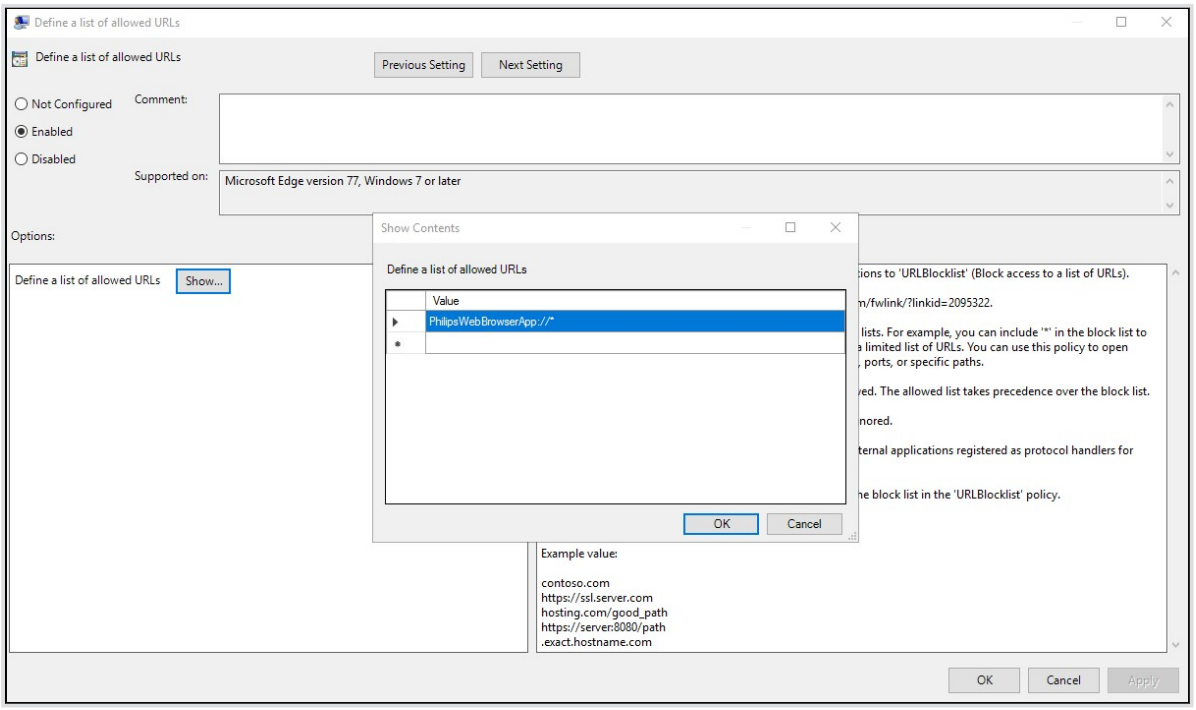


Fig. 2: Define a list of allowed URLs

4. Double click on the **List of file types that should be automatically opened on download** policy.
   Follow the below steps to enable and configure the value to the policy:
   - Select the **Enabled** option.
   - Click the **Show** button to configure the **Value: application** as shown in the *Fig. 3: List of file types that should be automatically opened on download*.
   - Click the **OK** button.
   - Click the **Apply** button.

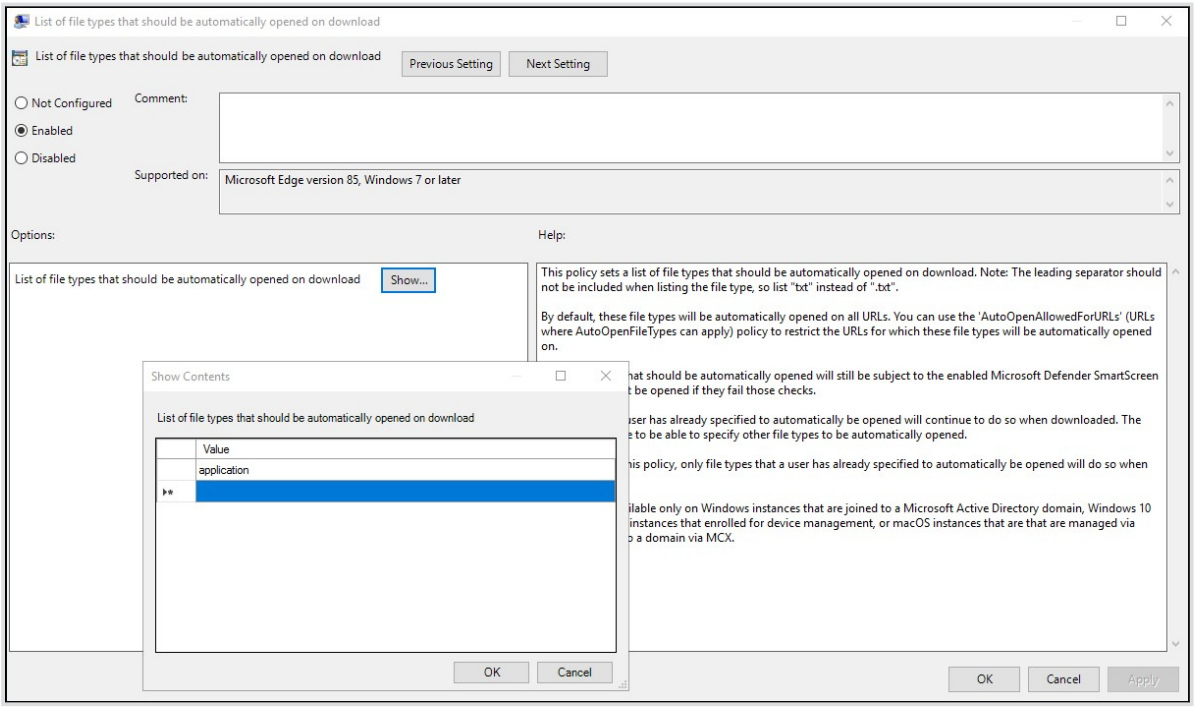


Fig. 3: List of file types that should be automatically opened on download

5. Double click on the **URLs where AutoOpenFileTypes can apply** policy.
   Follow the below steps to enable and configure the value to the policy:

- Select the **Enabled** option.
- Click the **Show** button to configure the value based on the URL used to launch the ClientWeb as shown in the *Fig. 4: URLs where AutoOpenFileTypes can apply*.
- Click the **OK** button.
- Click the **Apply** button.

For example:

– If the host name is `hospital.domain.com` then the rule should either have `hospital.domain.com` or `domain.com`.
– If the server access is under load balancer, then the rule should be updated with the appropriate load balancer name.

NOTICE

The below-shown figure is just an example. URL value which is used to launch ClientWeb needs to be updated here as applicable.

If you do not obey these instructions, there is a risk of property damage.

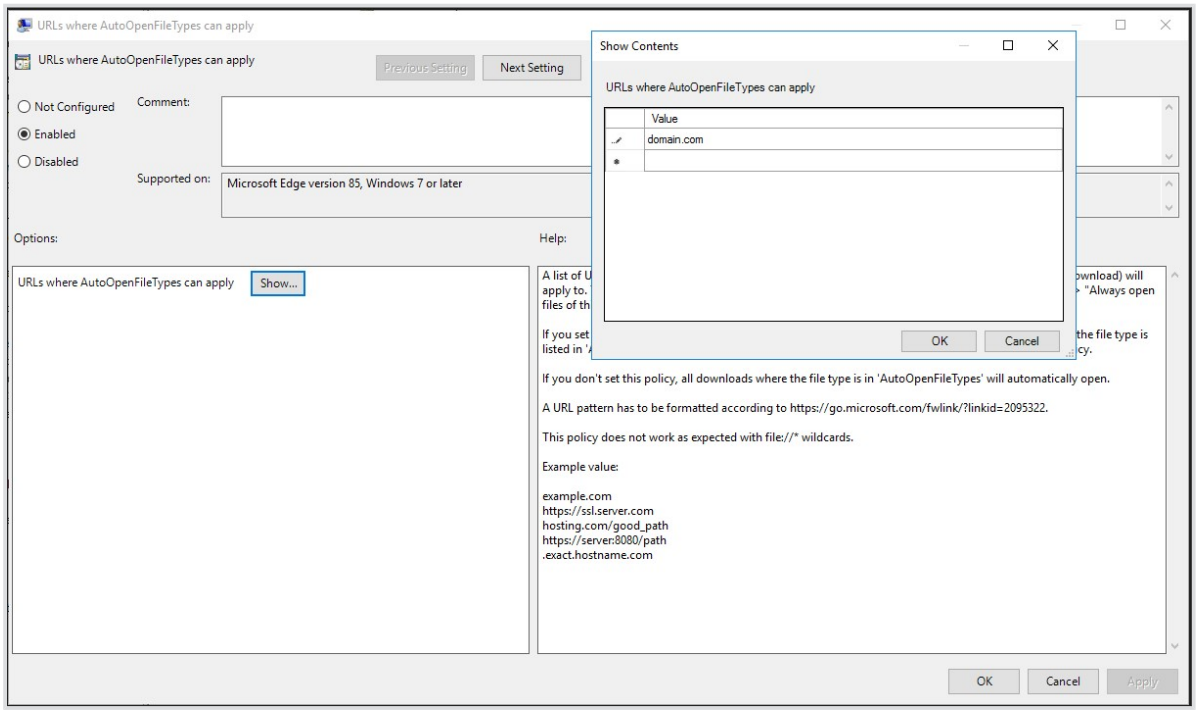


Fig. 4: URLs where AutoOpenFileTypes can apply

NOTICE

For Active Directory group policy settings, policy settings are propagated to domain computers at a regular interval defined by your domain administrator, and target computers may not receive policy updates right away. Execute the below command from the command prompt to manually refresh Active Directory group policy settings on a target computer:

```
gpupdate /force
```

If you do not obey these instructions, there is a risk of property damage.

References

The note from Microsoft regarding the policy not available on the WORKGROUP is shown in the *Fig. 5: Group Policy Management Editor* .

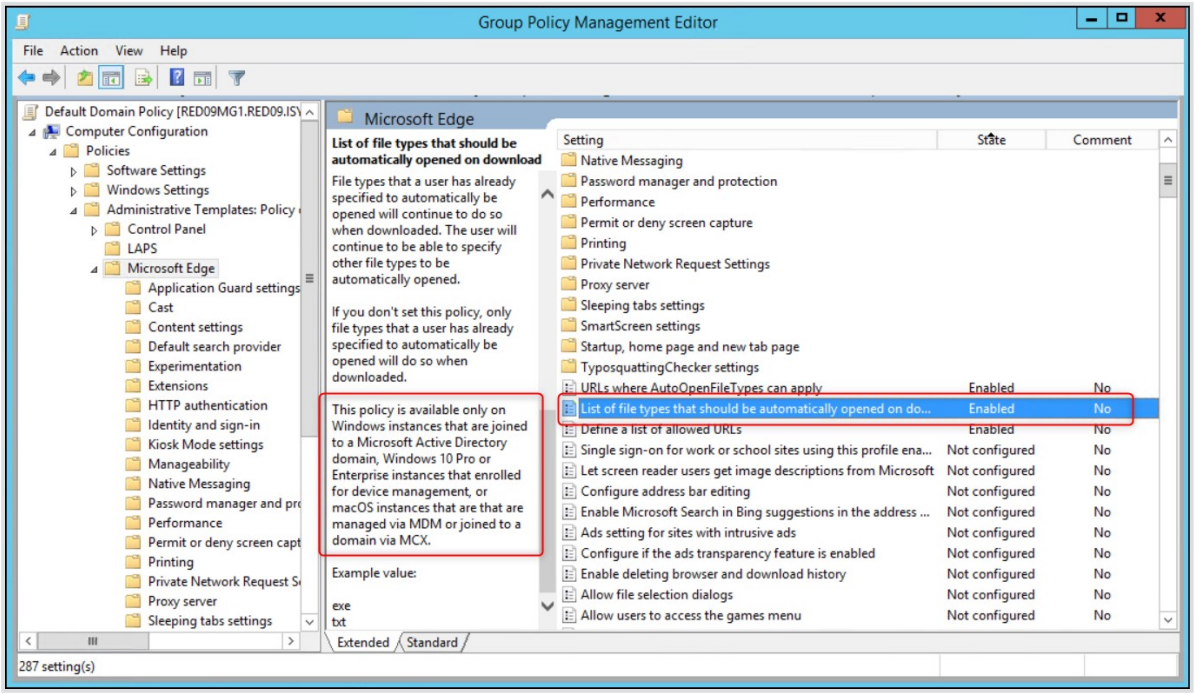


Fig. 5: Group Policy Management Editor

NOTICE

Launching ClientWeb in both Internet Explorer 11 and Microsoft Edge browser will open the containment application.

If you do not obey these instructions, there is a risk of property damage.

6.4 Internet Options Settings (Trusted Sites Only)

This section will guide you to configure Trusted Sites for Client Web.

1. On the client machine, open the **Internet Options.**
2. Click on the **Security** tab.
3. Click on **Trusted sites**.
4. Ensure that the **Enable Protected Mode (requires restarting of Internet Explorer)** check box is not checked.

Setting Group Policy Object (GPO) from Domain Controller

This section will guide you to push the **Disable Protected Mode** settings to all clients using domain controller.

1. Open Control Panel.
2. Click on **System and Security**.
3. Click on **Administrative Tools**.
4. Click on **Group Policy Management**.
   The **Group Policy Management** window displays.
5. In the right pane, expand **Domains** to select your domain of the client machine.
6. Right click on the Domain and select **Create a GPO in this domain, and Link it here**.
   The New GPO screen displays.
7. Enter the **Name** for the new GPO and click **OK**.
   The new GPO will appear under the selected Domain.
8. Right click on the new GPO and select **Edit**.
   The **Group Policy Management Editor** displays.

9. On the right pane, expand **User Configuration**--> **Policies**--> **Administrative Template** --> **Windows Components** --> **Internet Explorer** --> **Internet Control Panel** --> **Security Page** --> **Trusted Sites Zone**.
10. In the right pane, locate and click on **Turn on Protected Mode** settings.
    The **Turn on Protected Mode** window displays.
11. Select the **Disabled** radio button.
12. Click **OK** to close the **Turn on Protected Mode** window.
13. Execute below command from the command prompt on the client machine to update GPO policy:
    - `gpupdate /force`

7 Installing IntelliSpace Clinical Applications

This chapter describes how to install the following IntelliSpace Clinical Applications on IntelliSpace Radiology 4.7:

- IntelliSpace Volume Vision

This chapter is addressed to the PACS Administrators or the end user, depending on which party controls the user's workstation desktop software.

NOTICE

In this chapter, the IntelliSpace Clinical Applications are referred to as "Volume Vision", "Pulmonary Embolism Assessment", "Vessel Explorer" and "CT Colonography."

If you do not obey these instructions, there is a risk of property damage.

This chapter includes the following topics:

- chapter Overview on page 47
- chapter Workstation Requirements and Recommendations on page 48
- chapter Installing the IntelliSpace Clinical Applications Software on page 50
- chapter Installing by Removable Media on page 51
- chapter System Restore after Installation on page 52
- chapter User Permission Management on page 52
- chapter Verifying Installation on page 53
- chapter Post-Installation on page 54
- chapter Upgrading on page 55
- chapter Uninstalling Clinical Application Software on page 56
- chapter Logging on page 56

7.1 Overview

The Clinical Applications installation is part of the client and server setup: the installer for Clinical Applications is copied onto the IntelliSpace Radiology server by Philips; end-users need to install Clinical Applications manually on each client. Only members of the Administrators group can install Clinical Applications.

The Clinical Applications can also be remotely distributed and installed under the LOCAL SYSTEM account (as used, for example, by SMS). This is an internal Windows account which is the most trusted and most powerful.

Volume Vision can be installed on any IntelliSpace Radiology client and offers multi-modality, multi-vendor 2D/3D viewing.

Volume Vision offers a clinical workspace that allows faster and easier diagnosis and review of image data. The tools extend the IntelliSpace Radiology capabilities by adding MPR, MIP, 3D as well as other advanced visualization tools:

- Import, create and modify hanging protocols
- Endoluminal viewing
- 3D segmentation editor
- Linked 2D and 3D views
- Merge viewing
- Movie creation
- Volume of Interest viewing

Volume Vision can be used by any Windows user, who is a member of the Windows groups **Users**, **Power Users** or **Administrators**. If a site has implemented specific group-policies that affect the user rights, a problem may occur when accessing the shared folder, which is used to store intermediate DICOM files.

Volume Vision does not require a license key. The following Clinical Applications are optional and licensed. These applications provide a clinical workspace with a suite of clinical functionality.

- CT Colonography
- CT Pulmonary Emboli
- Vessel Explorer

7.2 Workstation Requirements and Recommendations

Volume Vision has a video card validation tool that determines if the card can be used for OpenGL acceleration of MPR, MIP and Volume Rendering. Most nVidia Quadro and Quadro FX cards and most ATI FirePro cards and Barco cards are compatible with Volume Vision.

The video card validation tool analyses any video card on its OpenGL functionality (not Image Quality). The new render drivers in Volume Vision are based on OpenGL 3.2, so for Volume Vision OpenGL 3.2 (or better) is recommended.

If the OpenGL version on the system is older, Volume Vision switches back to OpenGL 2.1. If there is no OpenGL on the system, Volume Vision switches to software (CPU) rendering.

Information about the video card and the OpenGL version on the system can be found in the Volume Vision Video board settings panel: **Options**, **Edit system settings**, **Video board settings**.

For a maximum render performance, the entire series should fit in the memory of the video card. The number of images that can be loaded is linear with the amount of memory on the video card.

Rule of thumb: 1 GB video card loads 1600 CT or MR images (512 x 512 x 16).

If problems such as render artifacts are observed if the video card is used, the video card should be disabled in the Video board settings panel. It is also possible that the video card passes the Volume Vision validation, but gives less render performance than the CPU. In this case, it is advised to disable the video card as well.

7.3 Preparing to Install the Clinical Applications

To install IntelliSpace Clinical Applications, the logged on user must be a member of the local Administrators group. Any user who is a member of this group can install the software, including members who are also in the Domain Administrators group.

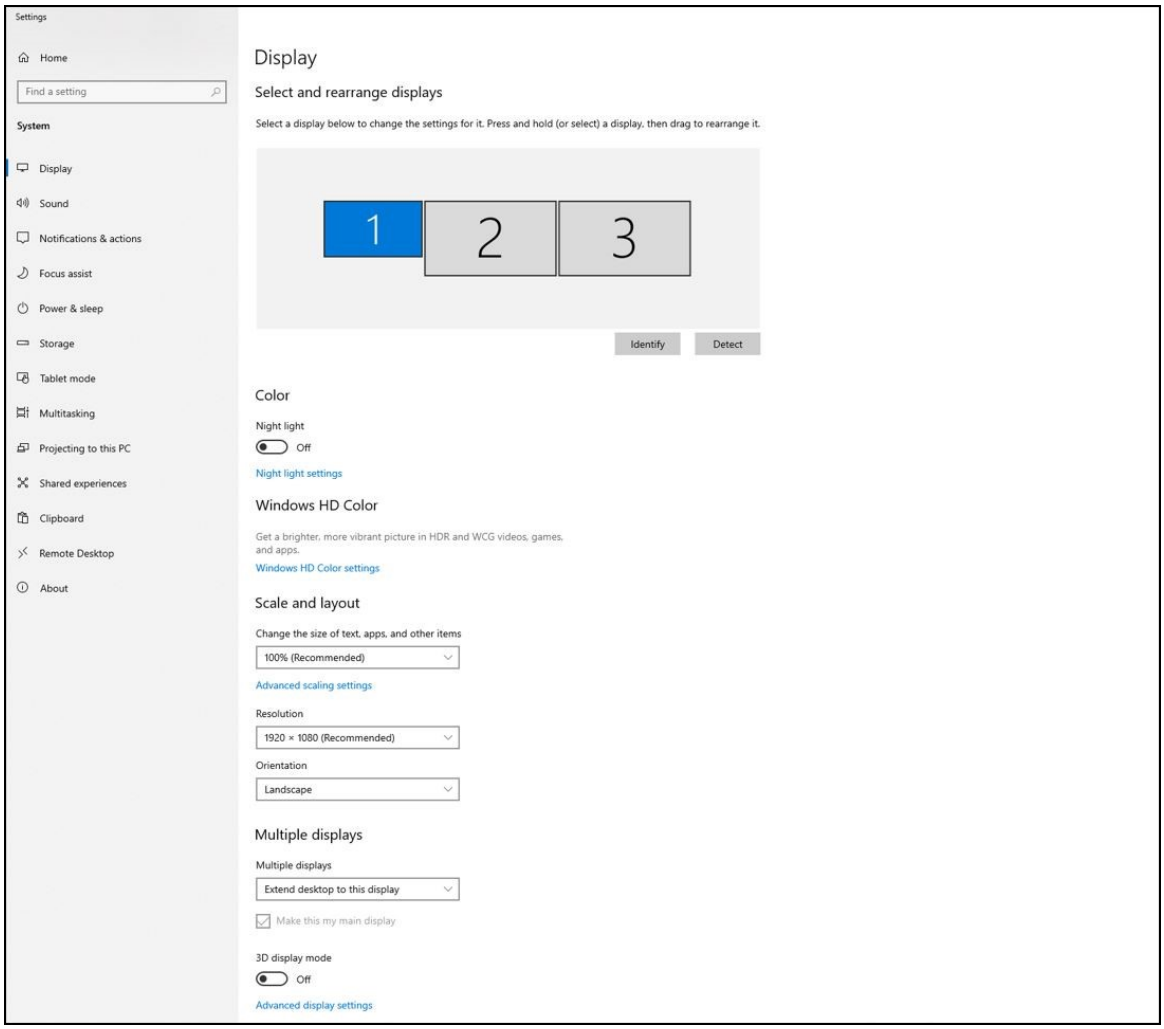
7.3.1 Checking the Video Driver Version

It is recommended to install the latest video driver provided by the video board manufacturer.

7.3.2 Customizing the Monitor Settings

The monitors can be aligned in the Windows Display settings.

1. Navigate to **Start → Settings → System → Display**.
2. The display settings window appears as shown below:



3. In the **Select and rearrange displays** section, drag the monitor icons to align the monitors in the preferred position.

7.3.3 Installing Clinical Applications Software From Removable Storage

The Clinical Applications installer is stored on the IntelliSpace Universal Data Manager server. The Clinical Applications can be installed manually from IntelliSpace Radiology or IntelliSpace Radiology-Enterprise. However, the Clinical Applications software can be installed locally without running IntelliSpace Radiology or IntelliSpace Radiology-Enterprise or remotely distributed and installed (with SMS, for example). The following files are required for installation:

File	Size (approx)
VF_IS_Installer.exe	120 MB
Philips.VolumeVision-8.2.6.1.xml	1 kB
dotNET35_SP1_32bit.exe	80 MB
dotNET35.xml	1 kB
VF_IS_Installer.exe	120 MB
Philips.VolumeVision-8.2.6.1.xml	1 kB
dotNET35_SP1.exe	230 MB
dotNET35.xml	1 kB

Ask your Philips representative to provide the files and put these files on the media you want to use (for example, USB or CD).

7.4 Installing the IntelliSpace Clinical Applications Software

To install IntelliSpace Clinical Applications, the logged on user must be a member of the local Administrators group. Any user who is a member of this group can install the software, including members who are also in the Domain Administrators group.

7.4.1 Installing through IntelliSpace Radiology-Enterprise or IntelliSpace Radiology

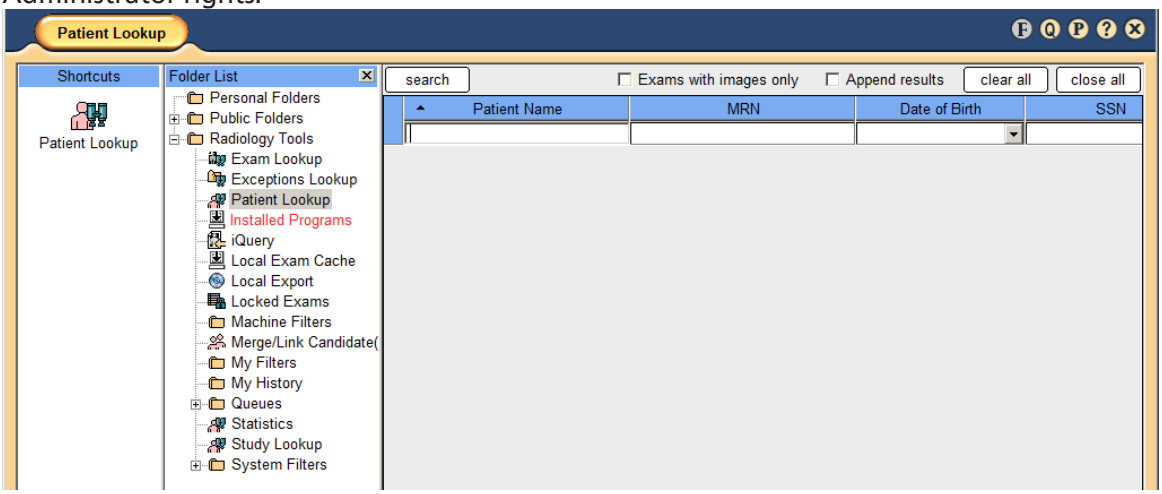
The Clinical Applications installer is stored on the IntelliSpace Universal Data Manager server, which distributes the software to client machines.

NOTICE

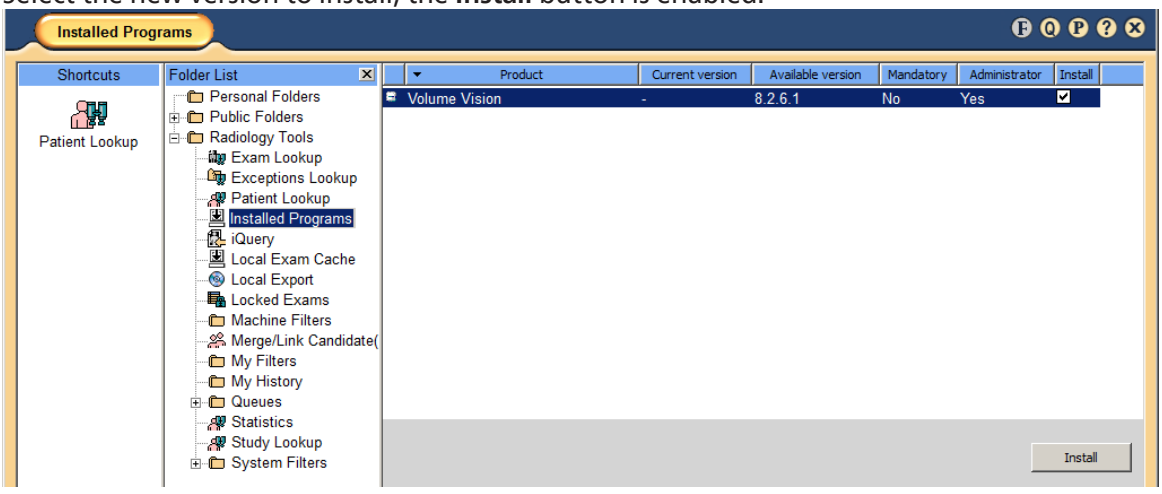
The Clinical Applications software installs .NET framework version 3.5 SP1. This might affect other applications on the client PCs that use an older version of .NET framework. An error message displays if .NET framework version 3.5 SP1 is not available.

If you do not obey these instructions, there is a risk of property damage.

1. Start IntelliSpace Radiology or IntelliSpace Radiology-Enterprise and log on as user with local Administrator rights.



2. Select **Installed Programs**. If the Clinical Applications software is not installed or a newer version of the software is available on the server, the text is displayed in red.
3. Select the new version to install; the **Install** button is enabled.



4. Click **Install** to start downloading the installer from the PACS server.
5. Click **OK** in the pop-up message, stating that the application will be terminated if you proceed with the installation.

The previous version is uninstalled (if present). The user settings of the previous installation are preserved. Several messages are displayed during the un-installation. After uninstalling the previous version, the installer starts to install the latest version.

6. Click **OK** when the installation is finished.

7.5 Installing by Removable Media

Before installing Clinical Applications software on IntelliSpace Radiology clients, verify that the files in chapter Installing Clinical Applications Software From Removable Storage on page 49 are available on the media you want to use (for example, USB or CD).

7.5.1 Local Installation

Local installation is the same kind of installation as installing via the IntelliSpace Radiology or IntelliSpace Radiology-Enterprise application. The installation is started from removable media using Windows Explorer.

1. Close all programs.
2. Open Windows Explorer.
3. Browse to the media that contains the files provided by Philips.
4. Copy all files to:
   - C:\ProgramData\Philips\Packages
5. Rename **Manifest file dotNET35.xml** to **Philips.dotNET_VolumeVision-3.5.xml**.
6. Double-click **dotNET35_SP.exe** (Win 10 and 11 (64 bit)) or **dotNET35_SP_32bit.exe** (Win 10 (32 bit)), which will start the installation of .NET framework 3.5 SP1. Use default settings during installation.
7. When the installation of .NET framework 3.5 SP1 has finished, double-click **VF_IS_Installer.exe**, which will start the installation of the Clinical Applications.
   The previous version is uninstalled (if present). The user settings of the previous installation will be preserved. Several messages are displayed during the un-installation. After uninstalling the previous version, the installer starts installing the latest versions.
8. Click **OK** when the installation is finished.

7.5.2 Remote Distribution and Installation

When Volume Vision needs to be deployed to a large number of clients, the software can be distributed remotely from a distribution server or PC and installed accordingly. Commonly used software tools which are used for deployment are SMS and SCCM.

Before starting the deployment of the Clinical Applications software remotely make sure that:

- IntelliSpace Radiology clients are running and logged on with local administrator rights;
- IntelliSpace Radiology or IntelliSpace Radiology-Enterprise are not running;
- When installing, file and printer sharing is turned on, which can be set using **Change advanced sharing settings**.
- Rename **Manifest file dotNET35.xml** to **Philips.dotNET_VolumeVision-3.5.xml**.

During the deployment and installation, make sure that the deployment tool copies the files mentioned in Installing Clinical Applications Software From Removable Storage to:

- C:\ProgramData\Philips\Packages

Make sure that the deployment tool will first run .NET framework 3.5 SP1 and after that the Clinical Applications installer.

7.6 System Restore after Installation

During each installation of the Clinical Applications software, a system restore point is created (provided that the System Restore setting is not disabled in Windows). If, for some reason, the Clinical Applications installation fails (for example, due to low disk space on the client), the system can be recovered to the situation right before the installation of the Clinical Applications software. To restore the system, make sure to log on as a user with local administrator rights.

7.6.1 System Restore (Windows 10 and 11)

1. Search for system restore in the Windows 10 and 11 Search box and select Create a restore point from the list of results
2. Click on “System Restore” from the System Protection tab.
3. Choose **Next** in the System Restore window.
4. Click **Finish** and click **Yes** to reboot the system.
5. Log on as user with administrator rights and click **Close** on the **System Restore** panel. At this point, the system has been restored.

7.7 User Permission Management

Users are associated with groups. Any user who is a member of a group gets the application rights specified by the policies to which that group is assigned, and gets the organization specific tasks specified by the roles assigned to the group.

For a complete overview of tasks, rights, roles, policies and groups, see the IntelliSpace Universal Data Manager Admin Tool documentation.

The usage of Clinical Applications is also based on policies and roles. These can be defined by logging on to https://<IP_SERVER>/pacsadministration.

7.7.1 Rights

The following rights are applicable for Clinical Applications:

Display Name	Description
System Settings: Manage System Hanging Protocols	Grants the user the ability to create, read, update and delete System hanging protocols.
System Settings: View System Hanging Protocols	Grants the user the ability to view System hanging protocols.
User Settings: Manage User Hanging Protocols	Grants the user the ability to create, read, update and delete User hanging protocol groups.
VolumeVision: iSyntax Application Server	Grants the user the ability to access the Application Server.
VolumeVision: Store To PACS	Grants the user the ability to store captures and movies into the patient folder.

NOTICE

The right “VolumeVision: iSyntax Application Server” grants the user the ability to access to the application server with a thin client. The application server is applicable for clinical evaluation purpose only.

If you do not obey these instructions, there is a risk of property damage.

7.7.2 Tasks

Depending on the provided license file, the following tasks are applicable for Clinical Applications:

Display Name	Description
VolumeVision: Clinical Science Key	Grants the user the ability to import and view CAD data.
VolumeVision: CT Colonography	Grants the user the ability to open a study with CT Colonography.
VolumeVision: CT Pulmonary Emboli	Grants the user the ability to open a study with CT Pulmonary Emboli.
VolumeVision: Vessel Explorer	Grants the user the ability to open a study with Vessel Explorer.

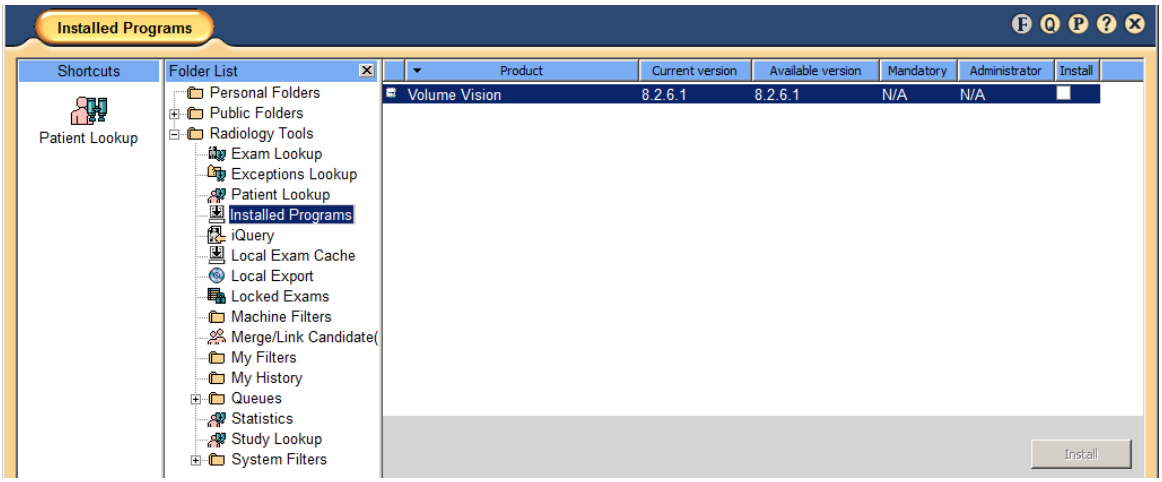
NOTICE

The task "VolumeVision: Clinical Science Key" grants the user the ability to import and view CAD data and is only applicable when combined with the role "VolumeVision: CT Pulmonary Emboli." The Clinical Science Key is for clinical evaluation only. A separate key is needed, which is part of the clinical evaluation contract.

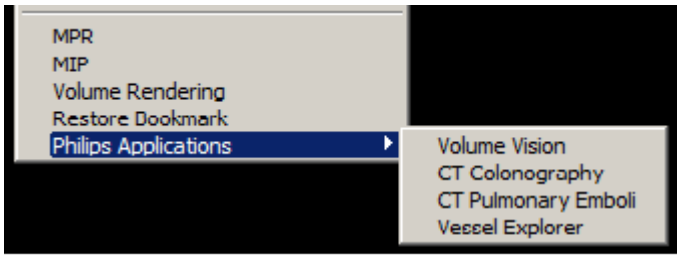
If you do not obey these instructions, there is a risk of property damage.

7.8 Verifying Installation

1. Start IntelliSpace Radiology, and log in with administrator rights.
2. Open the **Preferences** dialog box (**P** at right top) dialog box to verify that the plug-in is configured properly.
3. Expand **Machine Preferences** and select **Plug Ins**.
4. Select **ViewForum ISR** and click **Properties**.
5. Check to make sure the installation directory contains VolumeVision.htm:
   - C:\Program Files (x86)\PMS\ViewForum\iSite
6. Close the **Preferences** dialog box.
7. Check to make sure the **Install** button cannot be enabled. This indicates that the current version is the latest version.



8. Open the IntelliSpace Radiology or IntelliSpace Radiology-Enterprise Canvas Page and right-click on an image. The Clinical Applications menu items (MPR, MIP, Volume Rendering and Restore Bookmark) should be present, as well as Philips Applications.



NOTICE

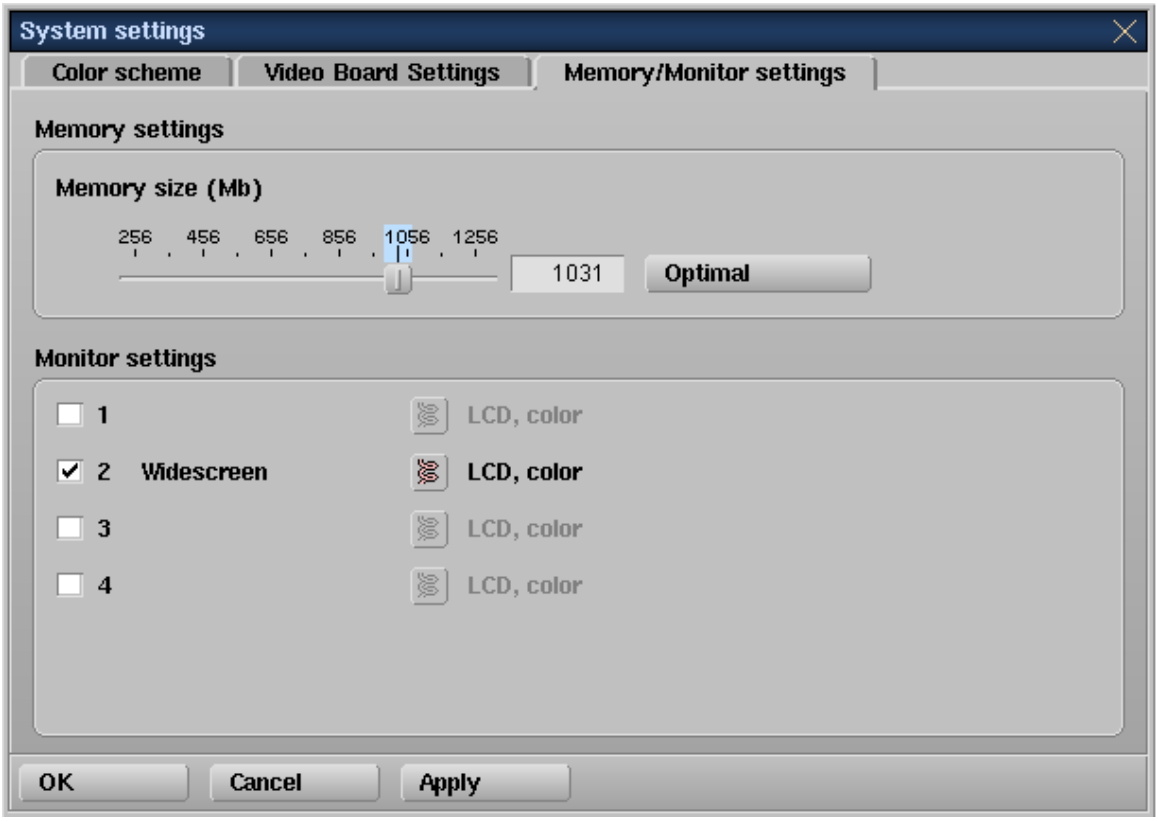
If the Clinical Applications have not completed loading, STARTING is displayed instead of these menu items.

If you do not obey these instructions, there is a risk of property damage.

7.9 Post-Installation

7.9.1 Changing the Memory/Monitor Settings

1. Log into IntelliSpace Radiology or IntelliSpace Radiology-Enterprise.
2. Select **Patient Lookup**.
3. Expand a patient from the list and open an exam.
4. On the Canvas Page, right-click on an image and select MIP, MPR, or Volume Rendering from the context menu.
5. In Clinical Applications click **Options**, then **Edit System Settings**.
6. Select the **Memory/Monitor Settings** tab.
7. The slide bar can be used to adjust the memory size. Click **Optimal** to return to the default values for your system.
8. Enable the monitors that will be used for the Clinical Applications.
9. Select the correct monitor type per enabled monitor if necessary. The number of monitors and the order as specified in Windows will also appear in the system settings **Memory/ Monitor settings** tab.



10. Click **OK**.
11. Restart IntelliSpace Radiology or IntelliSpace Radiology-Enterprise.

7.9.2 Customizing the Virus Scanner

Make sure you are logged in to the Operating System with local administrator rights.

For performance improvement, we recommend excluding following files from scanning (on access and on-demand scanning) for all users:

*This should be done for all Windows users who use Clinical Applications

Windows 10 and 11 with 64 bit:

- C:\ProgramData\PMS\ViewForum*.*
- C:\Program Files\Philips*.*
- C:\Program Files\PMS*.*
- C:\Pagefile.sys

Windows 10 with 32 bit:

- C:\ProgramData\PMS\ViewForum*.*
- C:\Program Files (x86)\Philips*.*
- C:\Program Files (x86)\PMS*.*
- C:\Pagefile.sys

7.10 Upgrading

Software upgrades including upgrades classified by Philips as mandatory are communicated to your site by a Philips representative (that is, the Technical Account Manager). Mandatory upgrades must be installed. Upgrading the Clinical Applications software is the same as a clean installation.The current software is removed and the new software is installed.

NOTICE

During an upgrade, the user settings of the previous installation (R7.4 onwards) are preserved.

If you do not obey these instructions, there is a risk of property damage.

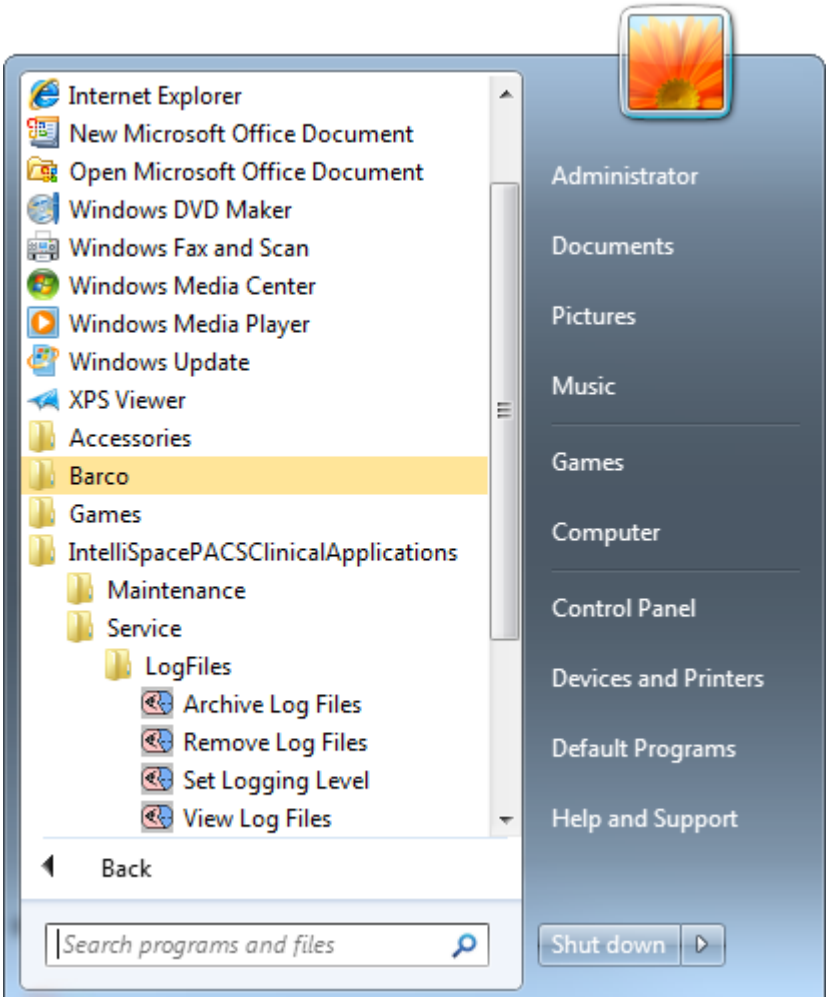
7.11 Uninstalling Clinical Application Software

To uninstall IntelliSpace Clinical Applications, the logged on user must be a member of the local Administrators group. Any user who is a member of this group can uninstall the software, including members who are also in the Domain Administrators group.

1. Go to **Control Panel**, **Uninstall a Program**.
2. Select **Philips Medical Systems IntelliSpace Clinical Applications**.
3. Click **Uninstall**.
4. Click **Yes** to confirm removal of the program.

7.12 Logging

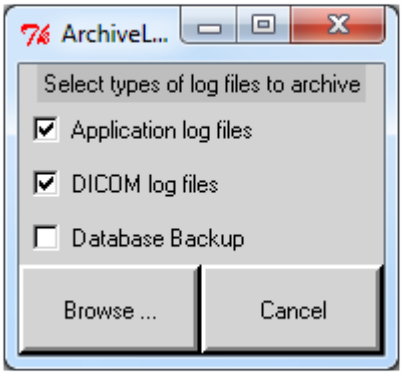
If a problem occurs during the use of Clinical Applications, log files should be collected and sent to Philips for further investigation. The **Log Files** menu with various options can be found in the Start menu: **Start**, **All Programs**, **IntelliSpacePACSClinicalApplications**, **Service**, **LogFiles**.



7.12.1 Archiving the Log Files

Log files are archived in a ZIP file.

1. Select **Archive Log Files** from the menu.



2. Click **Browse**.
3. Choose the media on which the log files should be saved (for example, USB disk).

7.12.2 Removing Log Files

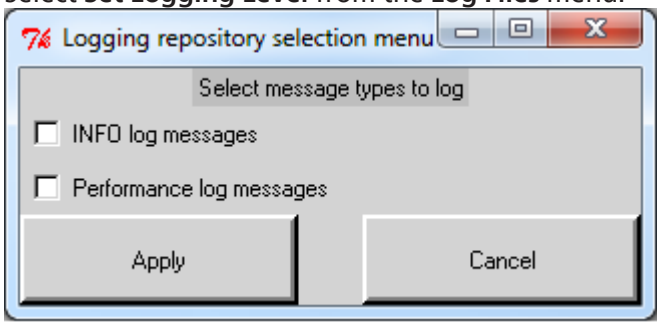
Under normal conditions, the storage on the disk is large enough to hold years of log files. However, it is possible to remove the log files.

1. Select **Remove Log Files** from the **Log Files** menu.
2. Click **OK**.

7.12.3 Setting Logging Levels

If extended logging is required, you can set logging levels. Be aware that enabling logging can influence the performance of your system. Remember to disable the logging levels once it is not required anymore.

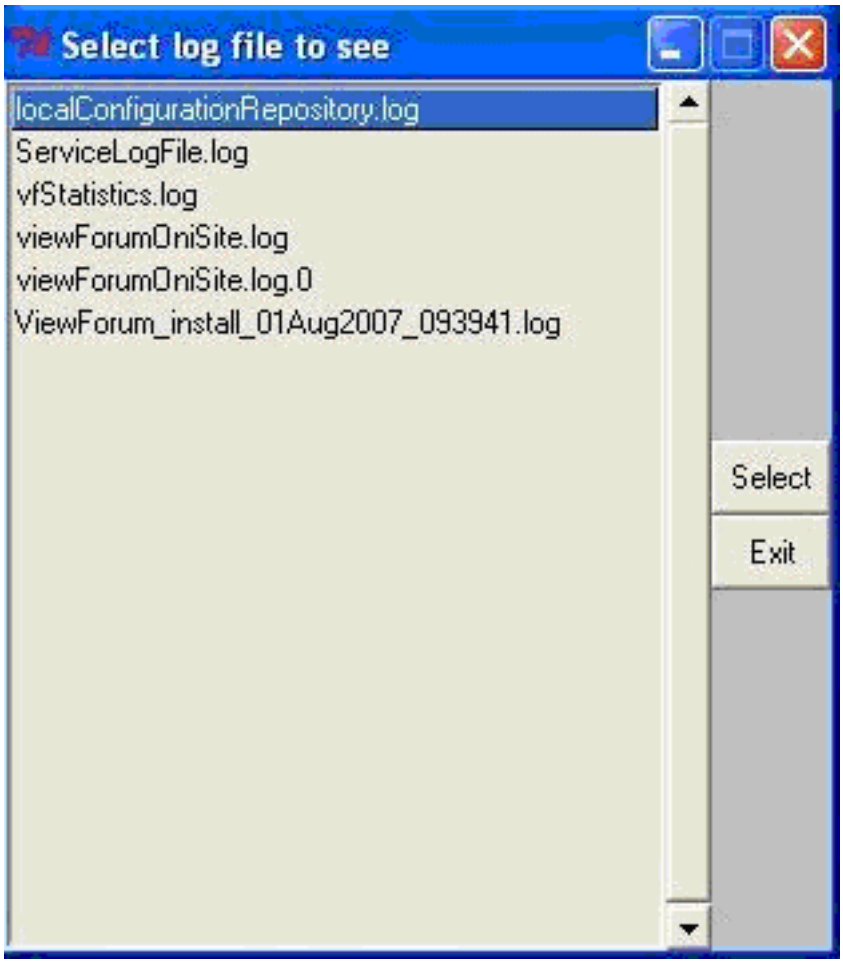
1. Select **Set Logging Level** from the **Log Files** menu.



2. Enable the required options.
3. Click **Apply**.

7.12.4 Viewing the Log Files

1. Select **View Log Files** from the menu.



2. Select the log file that you would like to see.
3. Click **Select**.

8 Upgrading IntelliSpace Radiology

This chapter includes the following topics:

- chapter Side-by-Side Install with an Earlier Version on page 59
- chapter Using the Auto-Upgrade Feature on page 60
- chapter Estimated Downtime Periods on page 61
- chapter Upgrade Checklist on page 61
- chapter Upgrade Best Practices on page 62

Note the following about upgrades:

- Major and minor upgrade installation always happens in a new, default folder (except for auto-upgrades and silent install upgrades).
- Previous major and minor versions can either run side-by-side with a new version of IntelliSpace Radiology, or they can be uninstalled. However, you cannot have more than one maintenance release versions of the IntelliSpace Radiology client on the same machine. For example, iSite PACS 3.6 and IntelliSpace Radiology 4.7 can be installed side-by-side. IntelliSpace Radiology 4.7 and IntelliSpace Radiology 4.7.1.0 cannot be installed side-by-side, but IntelliSpace Radiology 4.7 can be upgraded to IntelliSpace Radiology 4.7.0.1. Also, in side-by-side support, the uninstall of one of the clients will not affect the other (applicable to Standalone IntelliSpace Radiology-Enterprise and IntelliSpace Radiology (installed by exe and msi installers)).
- If the major or minor upgrade fails, the installer rolls back any changes made to the system.
- The installer tracks who ran the installer, and the success or failure in a log file and the System Event log.
- Upgrades to a new Maintenance Release can be automated for each IntelliSpace Radiology or IntelliSpace Radiology-Enterprise workstation if the AutoUpgrade flag is set to TRUE in the configuration file on the workstation and the Microsoft Windows user has Administrator access level. Note that this only applies to the IntelliSpace Radiology-Enterprise and IntelliSpace Radiology . **exe** and silent installations, not ClientWeb. When this flag is set, the IntelliSpace Radiology Client is upgraded whenever it attempts to access an IntelliSpace Radiology server at a higher Maintenance Release of the same Version running on the Client.
- If the AutoUpgrade flag is set to FALSE, the new Maintenance Release will need to be installed using one of the methods described in chapter Installation Options Summary on page 10.

8.1 Side-by-Side Install with an Earlier Version

You can install the IntelliSpace Radiology clients on the same machine with an earlier version of the iSite or IntelliSpace Radiology clients. This is called a side-by-side install. The earlier version could be any version from iSite 3.6 to iSite 4.1. For a side-by-side install, the major or minor version must be different.

NOTICE

For IntelliSpace Radiology 4.7, the “4” is the major version and the “7” represents the minor version.

If you do not obey these instructions, there is a risk of property damage.

You can’t have two instances of the same major and minor release installed side-by-side where only the release versions are different (for example, IntelliSpace Radiology 4.7 and IntelliSpace Radiology 4.7.0.1). In that case, the IntelliSpace Radiology 4.7 clients could be upgraded to IntelliSpace Radiology 4.7.0.1, but you could not have both releases installed side-by-side on your client machine.

You could, for example, have both iSite PACS 3.6 and IntelliSpace Radiology 4.7 installed on the same client machine. If you uninstall one client (for example, iSite PACS 3.6), the other client (for example, IntelliSpace Radiology 4.7) would not be affected, regardless of whether they were installed by .exe or .msi installers.

8.2 Using the Auto-Upgrade Feature

The Auto-upgrade feature is one way to automatically update the IntelliSpace Radiology Client. After you configure the Auto-upgrade feature, you will not have to set up this feature again.

1. In the IntelliSpace Radiology Client workstation, open Windows Explorer and browse to the configuration file in the root directory of the folder where the IntelliSpace Radiology Client was installed.
2. Double-click the configuration file to open it in Notepad.
3. Set the following parameters:
   - **iSyntaxServer**: Enter the Server IP address
   - **AutoUpgrade**: Set to “TRUE”

   For example:

```
[Server]
Options= "StentorBackEnd"
Port= "6464"
iSyntaxServer="172.16.8.133"
AutoUpgrade= "TRUE"
ImageSuiteDSN= "iSite"
ImageSuiteURL= "https://172.16.8.133/iSiteWeb/WorkList/
PrimaryWorkList.ashx/"
```

NOTICE

When performing an auto-upgrade from IntelliSpace Radiology 4.7 to higher versions IntelliSpace Radiology 4.7.0.1, “FQDN” must be used in the “iSite ini file” instead of the IP address. Also, ensure that valid security certificates are installed on the client machine before starting the auto-upgrade.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

While performing an auto-upgrade from ISPACS 4.4 to higher versions of IntelliSpace Radiology 4.7.X, “HTTPS” must be used in the “iSite ini file” as the latest server works with secure mode only.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

While performing an auto-upgrade, if the message "An internal error has occurred. Restart the application. If the problem persists, please contact Philips Technical Support." displays, then please re-launch the InteliiSpace Radiology using shortcut.

If you do not obey these instructions, there is a risk of property damage.

NOTICE

After an auto-upgrade, if the login screen does not come up automatically, use the shortcut icon (on the Desktop) or the application menu (from the start menu) to start the application.

If you do not obey these instructions, there is a risk of property damage.

4. Save and then close the configuration file.

8.3 Estimated Downtime Periods

Before an upgrade, you should communicate estimated downtime periods. Customers with large study volumes or large databases should consult with Customer Care on estimated downtime.

8.4 Upgrade Checklist

The following table can be used as a checklist for the high-level steps that need to occur for an IntelliSpace Radiology Client upgrade to be successful. See the *IntelliSpace Radiology 4.7 Planning Guide* for more detailed information.

Step	
Philips Technical Account Managers notify individual customers of the general release of IntelliSpace Radiology, provide appropriate documentation, and schedule the upgrade process.	
Customers have the Test Server upgraded first. (Test Servers are standard with HL7 Integration.)	
Customers receive “Train the Trainer” training for PACS Administrators.	
Customers test the upgrade in their Test Environment, as follows: • Follow “Life of a Study” workflow (Registration, Admission, Order Entry, Procedure Scheduling, Query DMWL, Begin Procedure, Complete Procedure, Dictate Report, Preliminary Report, Final Report). • Evaluate specific Use Cases from Philips. • Perform API integrations.	
Customers provide training to “key personnel.”	
Customers contact their Technical Account Managers to arrange for the upgrade (on production systems).	
Customers develop Communication Plan for the Upgrade.	
Customers develop Training Plan for the Upgrade.	
Customers develop the Client-side Upgrade Deployment Plan and communicate the Upgrade to their healthcare enterprise.	
Customers provide training to users and confirm upgrade date/time.	
Customers switch over to PICS (following Downtime Procedures).	
Philips Customer Care upgrades the production system.	
Customers switch back from PICS.	
If the PACS Administrator had to change the password on the local machine to have the IntelliSpace Radiology Client removed from a User workstation, they should notify users about the new password.	
Customers deploy the Client-side upgrade.	

8.5 Upgrade Best Practices

The planning steps and procedures in this section assume the following:

- If your site is equipped with a test server, you prepare to use it to conduct pre-upgrade testing.
- If you have a Philips Image Continuity Server (PICS), you prepare to use it as a limited IntelliSpace Universal Data Manager server during downtime in the upgrade procedure.

The upgrade process includes roles for both you (the customer) and for Philips Healthcare Informatics (Philips). The upgrade process includes the following parts:

- chapter Test Deployment on page 62 (see below)
- chapter Production Upgrade on page 62
- chapter Post-Upgrade Validation on page 62

8.5.1 Test Deployment

When IntelliSpace Radiology is released for distribution, the software is installed first in a test environment at your site. This test environment allows you to use the software with a small number of Clients to identify and resolve any issues before deploying to the production system.

During the testing phase, a Philips Applications trainer schedules training with your PACS team to review IntelliSpace Radiology and learn new features and functionality.

IMPORTANT

Philips provides Release Notes detailing the new and enhanced features in IntelliSpace Radiology. You are responsible for developing a detailed Test Plan to ensure that all relevant features and functionality and all third-party integrations work in the test environment. You can use the IntelliSpace Radiology test server for both internal training at your site and upgrade preparation.

8.5.2 Production Upgrade

Before upgrading the production environment, you must:

- Ensure that the Philips Image Continuity Server (PICS) is functioning as desired and can serve the roles needed during downtime.
- Develop and disseminate an Upgrade Communication Plan.

When the upgrade has been scheduled:

1. Philips Customer Care will confirm the duration for the upgrade, as well as the duration for rolling back the upgrade, should that be necessary.
2. Philips Customer Care will contact you at the beginning of the scheduled downtime.
3. When downtime commences, your PACS team will notify users to shift their access to the PICS server.
4. Philips Customer Care will perform the upgrade to all of the servers, and will notify your PACS team when the upgrade has been completed.
5. When the server upgrade procedure is complete, Philips Customer Care will contact you to verify that the system is online and accessible, and that all pre-upgrade configurations are intact. This will require your PACS team to access the system and validate the basic functionality of the system.
6. The site will upgrade the IntelliSpace Radiology Client software.
7. After the upgrade is successfully validated, you will notify users that they can access the production system once again.

8.5.3 Post-Upgrade Validation

When the production system upgrade is complete:

1. You will move operations off of downtime procedures and back onto the production system. You should continue to monitor the system to verify successful operations.

2. Philips Customer Care will monitor the system Heartbeat dashboard and will respond as required to any errors reported. Philips Customer Care will communicate to you any issues that potentially impact operations.
3. Philips Customer Care will upgrade the PICS server to sync up with the production system.

NOTICE

For all clinical uses of IntelliSpace Radiology, the release level of the IntelliSpace Radiology-Enterprise Client and IntelliSpace Radiology Client must match the release level of the Server. However, there may be situations where a Client may be able to access a Server of a different release level. Release level mismatches do not conform to the intended use of IntelliSpace Radiology and are not officially supported by Philips.

If you do not obey these instructions, there is a risk of property damage.

9 Prefetcher Configuration

9.1 Introduction

The Prefetcher feature enables IntelliSpace Radiology Client to download series images in background without any interference to the main thread or user workflows. This helps Radiologists scroll through the images as well as play Cine in a seamless manner. Prefetcher starts immediately after loading a study.

This section explains various Prefetch configuration options available in IntelliSpace Radiology client version 4.7 and above.

NOTICE

Prefetcher Configuration is not available for Enterprise client.

If you do not obey these instructions, there is a risk of property damage.

Images to Prefetch is determined by the following criteria

1. Mouse hover: If you hover mouse on diagnostic window, the images belonging to that exam will get precedence and downloaded first. Each Diagnostic Monitor can have multiple Diagnostic windows, each with a stack of images.
2. Popup Prefetcher: Images of the series hung on the Popup Window.
3. Diagnostic Monitor: All images of the exams hung on all the diagnostic monitors. There can be multiple Diagnostic Montiors.
4. Main Exam: All images of the Main Exam.
5. Prior Exams: All images of the Prior Exams.

NOTICE

Prefetching for prior exams are disabled by default. However, this can be overridden by placing reticule or opening a popup window on a prior exam's thumbnail. The user can alter the Prefetching sequence by moving the cursor, dragging and placing the reticule on a different exam, opening/closing shelfs, opening popup window etc.

If you do not obey these instructions, there is a risk of property damage.

9.2 iSiteWeb Configuration Options

The configurations explained in this section are applicable to all IntelliSpace Radiology clients connected to the server.

Size of each chunk for Image Fetching (MB)

This configuration allows the user to disable/enable Prefetcher or to choose whether to go for traditional style Single Image Prefetch or Range Image Prefetch. With Single Image Prefetch option, only one image will be prefetched in a single call. With Range Image Prefetch option, a group of images will be prefetched in a single call. For optimal performance, it is recommended to use Range Image Prefetch. With Range Image Prefetch option, fewer calls are made to the server.

Following are the list of options available for the parameter **"Size of each chunk for Image Fetching (MB)"**.

Value	Description
0	Disable new prefetch logic and fallback to older prefetch algorithm (i.e. prefetching happens only when mouse is hovering over a window).
>=1	Enable new Prefetch logic (i.e. mouse hover, diagnostic monitor, main exam, prior exam) with Range Image Prefetch.

Login to iSiteWeb interface and go to the tab **General** under **Client Configuration** (Refer the image below).

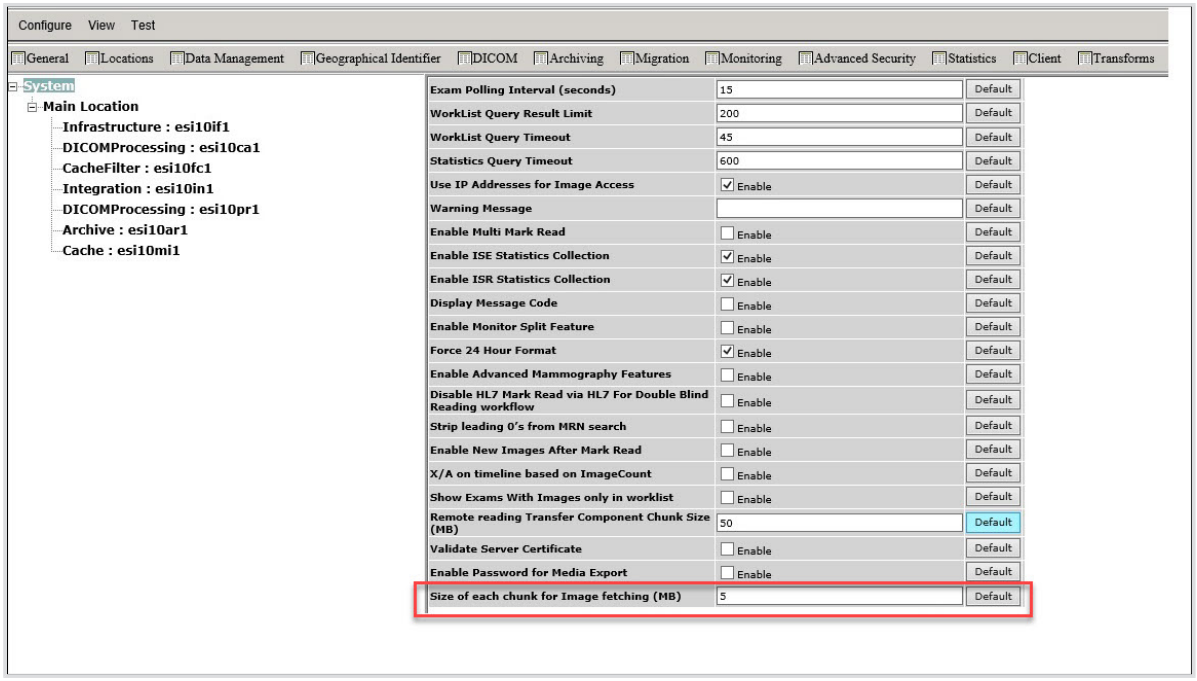
It is recommended to set the value to >= 1 to get optimal performance.

NOTICE

The value configured in iSiteWeb is not related to the chunk size configured in IntelliSpace Radiology Client. Chunk Size for Range call can be configured in Client in the Preferences.

If you do not obey these instructions, there is a risk of property damage.

General Configuration



9.3 Client Workstation Specific Configuration

This section describes various isite.ini file parameters and Client Preferences related to Prefetcher. These parameters are applicable to the machine on which you are currently working.

Isite.ini file configurations

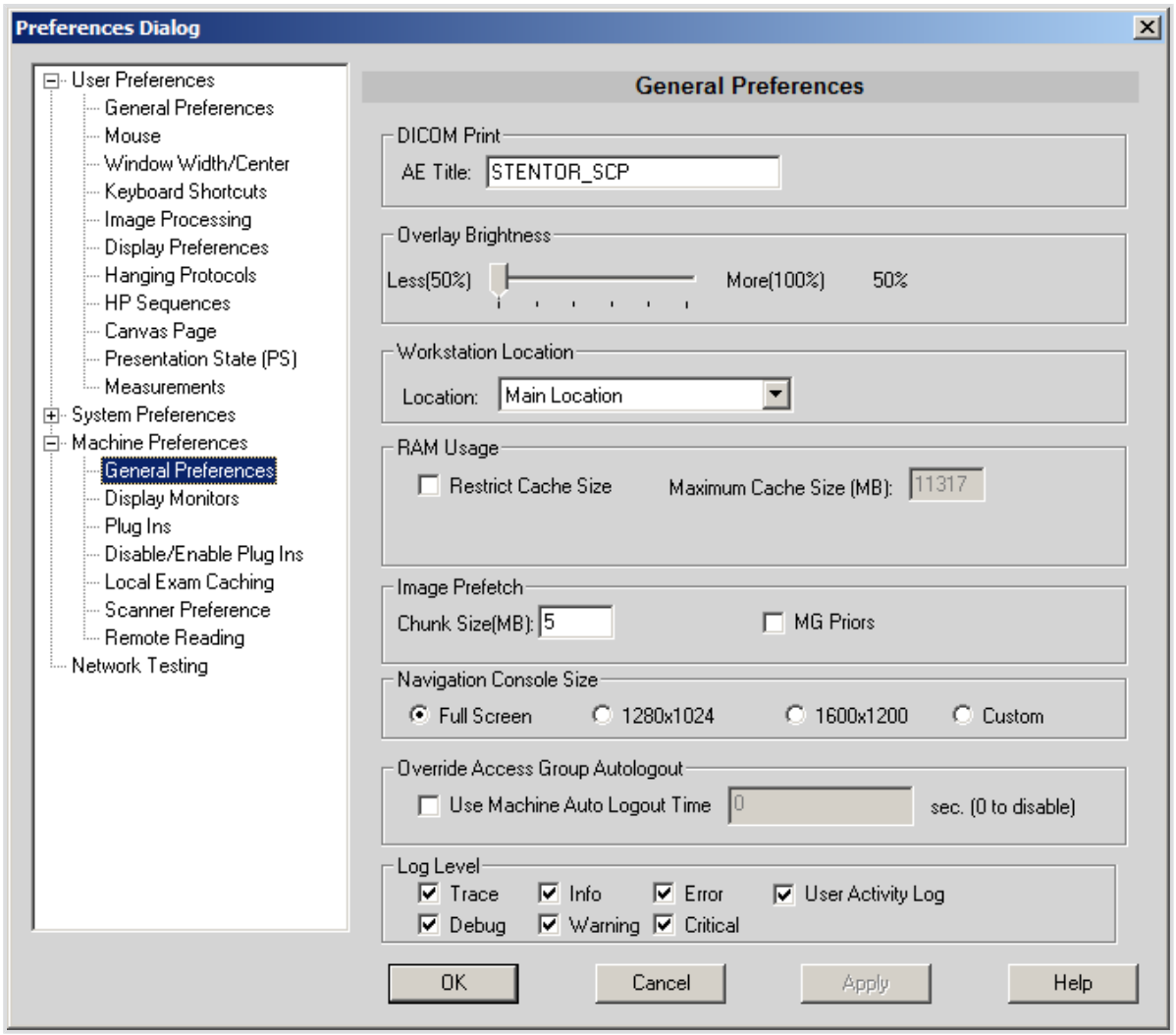
Default parameters are enough for most of the scenarios. Modify these parameters only if you want to override the default behavior.

Section	ini file option:	Description
[Server]	Options= "DisableInMemPrefetcher"	Specify this parameter to disable prefetcher. By default, Prefetcher is enabled. E.g. [Server] Options= "StentorBackEnd,DisableISSA,DisableInMemPrefetcher"

Section	ini file option:	Description
	Options= “EnableRangeLocalCaching”	Add this parameter to enable LocalExamCache to make range calls to retrieve data when there is no “merge condition” for users connecting to remote locations with Network Affinity WAN but not a Virtual Remote Location. Each range call will retrieve multiple images in a single call. The chunk size of each range call is determined by isiteweb RemoteTransfer chunk size attribute which is 25MB by default.
[Prefetcher]	ThreadCount	Number of prefetching jobs that can be executed in parallel at a given time. This value should be chosen carefully, for most of the processors ideal value would be half of the logical processor count. Also consider the bandwidth speed while choosing this value as increasing the count will throttle the network bandwidth.
		Default value: 4
	ExtraJobCount	Number of extra prefetching jobs that will be queued in advance to make sure threads are not starved for jobs to start. It is not recommended to change this value.
		Default without ini override: 2
	PhysicalMemoryLimitPercent	Defines the % of Physical memory use threshold to be reached before prefetching will be stopped. Default without ini override: 60% Maximum allowed value is 80.
	ModalityList	Defines the list of modality types that will utilize the number of threads defined in ThreadCount value. If ModalityList is present in ini file with modality types other than that of the exam being displayed, only a single thread will be utilized for prefetching. If the ModalityList parameter is not defined in the ini file, all modality types will use the number of threads defined in ThreadCount. Multiple modalities can be specified as comma separated string as shown below ModalityList = CT,MR,MG
	PassiveModeThreadCount	When a value < ThreadCount is set, gives preference to Cine by switching the prefetcher to passive mode with less number of parallel prefetch jobs at a time. Value >= ThreadCount or Value <=0 or not specified(default) then stops Prefetcher when Cine is ON.

9.3.1 ISR Client Machine Preferences

These parameters determine some of the characteristics of Prefetching. Open **Preferences** Window and go to **General Preferences** under **Machine Preferences** to modify these parameters.



Do the following in the Image Prefetch region:

1. In the **Chunk Size(MB)** field, specify the chunk size in MB for prefetching. Prefetcher will fetch as many images as can fit within the specified chunk size in a single request. Allowed range: 2 – 25. Default chunk size: 5 MB
2. Select **MG Priors** option to enable prefetching of MG prior exams. Default setting: un-checked

"**5**" is the recommended value for Chunk Size, however higher value of this field coupled with a higher value of ThreadCount may give better results on high configuration machines connected to high bandwidth networks. Optimal results are dependent on Hardware capabilities such as number of Cores and band width speed. The best value can be arrived at trial and error method.

9.3.2 ISR Client Overlay configuration

"*Cached Percentage*" displayed in overlay, if configured indicates the percentage of images downloaded by Prefetcher. This should be configured separately for all required modalities.

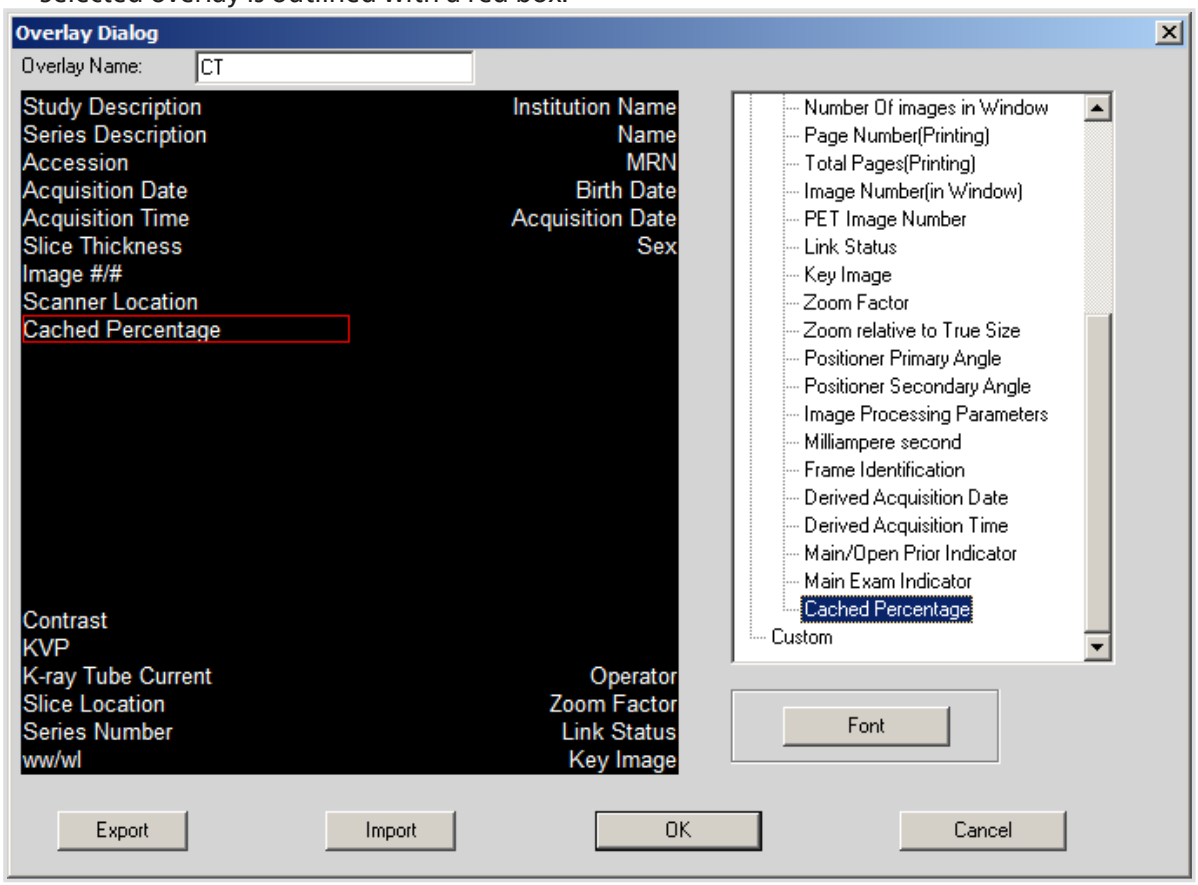
9.4 Viewing Cache Percentage on the Screen Overlay

Follow these steps to view the Cache Percentage on the Screen Overlay:

1. Click the **P** icon in the upper right corner of the IntelliSpace Radiology Control Strip.
2. Click the "**+**" sign next to **System Preferences**.
   The list of available system preferences displays.
3. Select **Screen Overlays**.

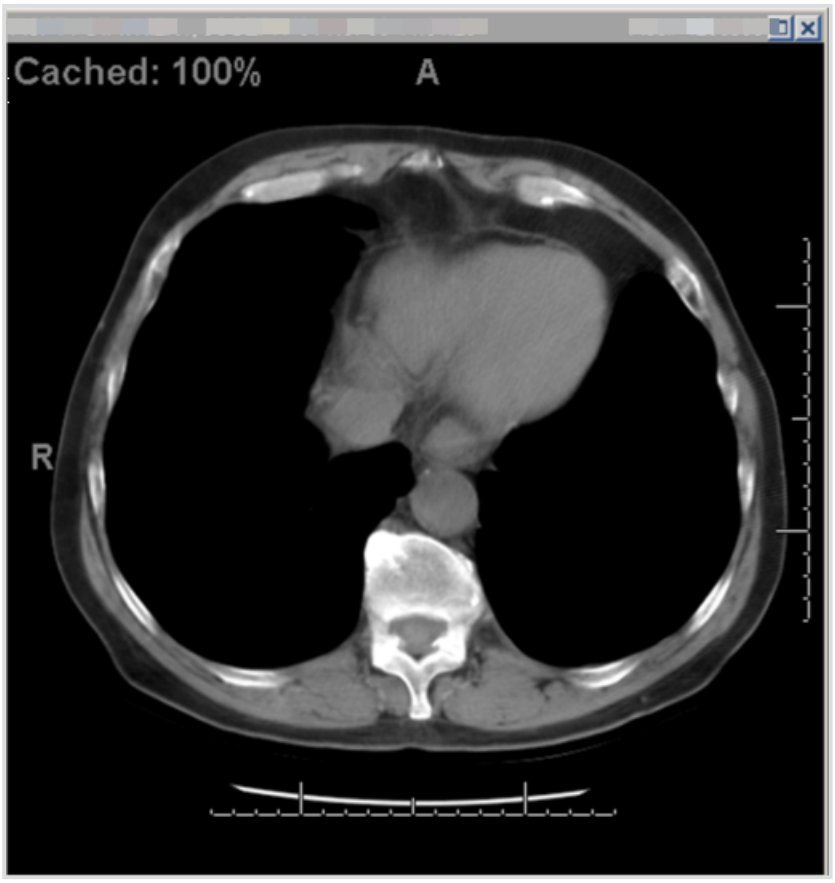
The Screen Overlays options displays on the right pane.

4. Select the modality to display the cache percentage.
   The **Overlay Dialog** displays.
5. Expand Calculated.
6. Locate **Cached Percentage**.
7. Drag and drop the Cached Percentage onto the Screen mockup region on the left side.
   Selected overlay is outlined with a red box.



8. Click **OK** .

The images in the selected modality will display the cached percentage as shown below:



10 Tomosynthesis Slice Indicator Orientation Labels Configuration

This section describes various isite.ini configuration options available for orientation labels of the Tomosynthesis Slice Indicator.

NOTICE

If none of the below-mentioned attributes in the table is present for isite.ini configuration, then the default behavior will be:
Valid datasets: Orientation labels are displayed for all manufacturer datasets
Ambiguous datasets: Orientation labels are NOT displayed for Non-Hologic manufacturer datasets when the software identifies ambiguous DICOM tag values. Orientation labels are always displayed for Hologic manufacturer datasets.

If you do not obey these instructions, there is a risk of property damage.

Section	Attribute Value	Description
[Server] Options =	EnableSliceIndicatorLabelsForAmbiguousData	Valid datasets : Orientation labels are displayed for all manufacturer datasets Ambiguous datasets: Orientation labels are displayed for all manufacturer datasets even when the software identifies that the dataset has ambiguous DICOM tag values. E.g.:- [Server] Options= "StentorBackEnd,DisableISSA, EnableSliceIndicatorLabelsForAmbiguousData" iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x /iSiteWeb/WorkList/PrimaryWorkList.ashx/"
	DisableSliceIndicatorLabelsForNonHologic	Orientation labels are displayed only for Hologic manufacturer datasets Orientation labels are NOT displayed for Non-Hologic manufacturer datasets E.g.:- [Server] Options= "StentorBackEnd,DisableISSA, DisableSliceIndicatorLabelsForNonHologic" iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x /iSiteWeb/WorkList/PrimaryWorkList.ashx/"
	DisableSliceIndicatorLabels	Orientation labels are NOT displayed for all datasets E.g.:- [Server] Options= "StentorBackEnd,DisableISSA,DisableSliceIndicatorLabels" iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x /iSiteWeb/WorkList/PrimaryWorkList.ashx/"

11 CAD Marker On 3D Mammography (Tomosynthesis)

This section describes various isite.ini configuration options available for CAD Marker On 3D Mammography (Tomosynthesis).

NOTICE

If none of the below-mentioned attributes in the table is present for the isite.ini configuration, then the default behavior will be:

- CAD Marker will be applied and corresponding CAD Indicator will be shown on Tomo Slice Bar.
- CAD Marker will be visible during the cine loop.

If you do not obey these instructions, there is a risk of property damage.

Section	Attribute Value	Description
[Server] Options=	DisableCADOnTomo	3D CAD markers are not displayed. Tomo slice will not show the CAD identifier (indicator). E.g.:- [Server] Options= "StentorBackEnd,DisableISSA, DisableCADOnTomo" iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x / iSiteWeb/WorkList/ PrimaryWorkList.ashx/"
	DisableCADOnTomoForCineLoop	3D CAD markers are not displayed during the cine loop. E.g.:- [Server] Options= "StentorBackEnd,DisableISSA, DisableCADOnTomoForCineLoop" iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x / iSiteWeb/WorkList/ PrimaryWorkList.ashx/"
	DisableAmbiguousDatasetValidationForCAD	Validation of ambiguous dataset will be skipped. E.g.:- [Server] Options= "StentorBackEnd,DisableISSA, DisableAmbiguousDatasetValidationForCAD " iSyntaxServer="x.x.x.x" AutoUpgrade= "FALSE" ImageSuiteDSN= "iSite" ImageSuiteURL= "https:// x.x.x.x / iSiteWeb/WorkList/ PrimaryWorkList.ashx/"

12 Glossary

12.1 Administrator Install (per-machine install)

A first-time install, upgrade, or downgrade of the IntelliSpace Radiology client which was executed by a user who was a Windows Administrator at the time of that execution.

12.2 Automated silent installation/mass deployment

The installation method that deploys the .msi installer using a third-party deployment mechanism (for example, Group Policy, SMS, or Marimba). When using mass deployment, it is the customer's responsibility to configure the third-party software and to ensure that installation via the selected method works properly.

12.3 Auto-Upgrade

A mechanism of triggering and executing an upgrade of the Client automatically. This upgrade is initiated by both:

- Setting the "**AUTOUPGRADE**" value to "**TRUE**" in the configuration file
- Attempting to connect the Client to a server hosting a client of a higher version than the client being executed
- Auto-upgrades do not apply to upgrades initiated via the ClientWeb or via mass-deployment.

12.4 ClientWeb

An installation method for IntelliSpace Radiology-Enterprise where the user points Internet Explorer to the web page URL (provided by the customer PACS administrator or IT department) of the customer's servers. Upon navigation to that URL, the installation of IntelliSpace Radiology-Enterprise is automatically triggered if it is not already installed on that user's workstation.

12.5 Major Version

The first number in the IntelliSpace Radiology release number (for example, the 4 in 4.7).

12.6 Mass Deployment

Initiating an installation from a single computer to multiple computers. Also known as a "push" deployment.

12.7 Minor Version

The second number in the IntelliSpace Radiology release number (for example, the 7 in 4.7). Versions typically contain new features and functionality.

12.8 Maintenance Release

The third number in the IntelliSpace Radiology release number (for example, the 1 in 4.7.1). Maintenance Releases typically address defects or minor product changes.

12.9 Patch

The fourth number in the IntelliSpace Radiology release number (for example, the 4 in 4.7.1.4)

12.10 Silent installation

An installation method that uses an .msi installer that can be executed from the command line to remotely “push” the IntelliSpace Radiology-Enterprise client to multiple workstations without visual indications. The IT group or PACS Administrator can determine if the silent installation was successful.

12.11 Standalone installation

An installation method where you place the installer in a location that can be used by all clients (for example, on a shared network drive or on a CD) and then access the appropriate .exe installer and install the IntelliSpace Radiology client individually on each client workstation. When users next log into IntelliSpace Radiology or IntelliSpace Radiology-Enterprise, they automatically log into the new version.

12.12 Unattended installation

See chapter Silent installation on page 73

12.13 Upgrade

The installation of a version of a product which is higher than the version of the product which is currently installed. Usually, but not always, uninstalls the original, lower version of the product.

12.14 Version

The combination of major and minor version (for example, 4.7).

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