



Progeny® Imaging



Installation Guide v1.11 and Higher

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1. About This Manual

This section explains how to use this manual.

Text Conventions

The following typographic conventions are used in this manual.

Type of Information	Convention	Example
Menu selection	Bold font, menus in path connected by '>'	Select Tools > User Management
User interface objects and controls	Bold font	Click Next
Program information and information typed by the user	Fixed-width font	Change directories to C:/program_files/Progeny®Dental
User-specific information typed by the user	Fixed-width font with italics and '< >'	Type C:/program_files/<user_database>, substituting the name of your database for <user_database>

2. Welcome to Progeny® Imaging

This section introduces Progeny® Imaging features, system components and installation configurations.

Progeny® Imaging Features and Functions

Progeny® Imaging acquires, displays, and stores digital dental X-rays and intraoral video images. Progeny® Imaging stores digital sensor images in DICOM format (Digital Imaging and Communications in Medicine). The DICOM format assures that each image contains patient identification and acquisition information.

You can use Progeny® Imaging to:

- Create login IDs for users of Progeny® Imaging
- Manage patient records
- Acquire, manipulate, and communicate images
- Configure devices to work with Progeny® Imaging

This manual is designed to guide you through installing Progeny® Imaging and image acquisition devices (sensors) to work with it.

For information on using Progeny® Imaging, refer to the Progeny® Imaging *User's Manual*.

System Components

When you use Progeny® Imaging, you work in several related contexts. This topic describes the following:

- Progeny® Imaging Components
- Image Acquisition Modules
- 3rd Party Applications, such as practice management software

Progeny® Imaging Components

Progeny® Imaging consists of three main components: a graphical user interface, a database and application folders. The graphical user interface is used to view and manipulate images. The database, which runs on MS SQL Server 2005 Express, stores user and patient information. The application folders store system settings, device configurations and patient images.

Progeny® Imaging needs to be installed on every computer where you want to view, acquire and store images. By default, the Progeny® Imaging database is installed on the same computer where the graphical user interface is installed. This is the standalone (application) configuration.

You can also have the graphical user interface point to a central database on another computer within the office network. This is the networked (application) configuration.

Image Acquisition Modules

Progeny® Imaging works with Progeny® VisionDX USB, VisionDX , MPSe, ClearVision, and VetPro DR digital X-Ray image acquisition modules as well as with the Progeny® Vivid USB Video Camera.

The VisionDX USB digital X-Ray image acquisition module and the Progeny® Vivid USB Video Camera are USB-based devices. These devices can only be installed directly to a computer's USB 2.0 port (standalone device configuration) and **cannot** be shared across a network.

The VisionDX and MPSe digital X-Ray acquisition modules are Ethernet-based devices. Two options exist for installing these devices:

1. Standalone (device) configuration, in which the module is installed (in DHCP mode) directly to the computer's network port. In this configuration, the module can only be used from the computer where it is connected. The computer in a standalone (device) configuration can access an office network or the Internet only if it has a second network port.
2. Networked (device) configuration, in which the module is installed using the default standalone (device) configuration and then reconfigured to be in Static IP mode. It can then be attached directly to a hub or switch on the office network. In this configuration, all computers are on the office network, and the module can be accessed from computers in different rooms. The computers on the office network are able to have Internet access if the office network provides this access.

Bridge to Third-party Applications

PIBridge is an additional software application from Progeny® Dental that enables you to use Progeny® Imaging with 3rd-party applications, such as practice management software. With PIBridge, you can add Progeny® Imaging's image acquisition and analysis capability seamlessly to your practice management software. After accessing a patient's records in your practice management application, you use PIBridge commands to "call" Progeny® Imaging. At your command, Progeny® Imaging opens for you to acquire images and create studies.

For information on PIBridge and using a 3rd party application with Progeny® Imaging, contact Progeny® Technical Support. For more information, see Getting Assistance on page 7.

Installation Configurations

Two configurations--standalone and networked--are available for installing the Progeny® Imaging database. Any USB enabled image acquisition module is required to be physically connected to the machine in which it is intended to be used.

Standalone Configuration

When the Progeny® Imaging application, database and application folders are located on the same computer, Progeny® Imaging is installed in a standalone configuration.

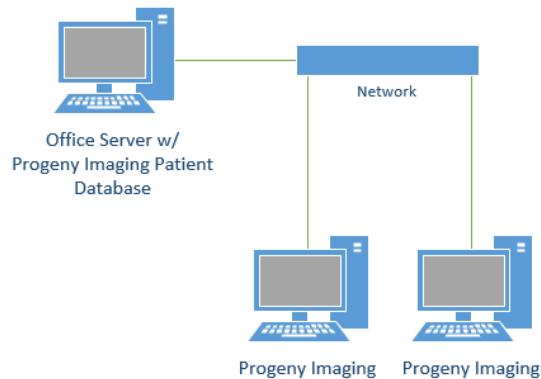
In the standalone configuration, the computer uses the Progeny® Imaging database and application folders located on the computer. The computer has an image acquisition module connected to it.

Networked Configuration

When the application, database and application folders are located in a central location on an office server or a computer designated to act as a server, and the graphical user interface on other computers is pointing to a central location, Progeny® Imaging is installed in networked mode. All of the computers where the application is installed use the same centrally located database and can view the centrally located patient images. In the networked configuration, all computers are on the office network and can access the Internet, if the network provides this access.

In the networked configuration shown below, Progeny® Imaging is installed on each computer and on the office server. All computers use the Progeny® Imaging database on the office server and the image acquisition module connected to the network hub.

Networked Configuration



Recommended System Requirements

The performance of Progeny® Imaging software is affected by the amount of RAM and storage memory available to the system for acquisition, displaying, storing, and printing digital X-ray images. The recommended requirements are listed below as a guideline only.

As you review these guidelines, please be aware that your patient volume, and the specific demands of your practice, may require you to adjust these guidelines accordingly. The system requirements of other programs operating on the same computer or network may affect these guidelines as well.

Operating System	Microsoft Windows 8 Pro or Enterprise Editions (32 & 64 bit) Microsoft Windows 7® Ultimate or Professional (32 & 64 bit) or Microsoft Vista® Business or Ultimate (32 & 64 bit) or Microsoft Windows XP® Professional (SP3) or Intel®-based Apple® running Windows Platform.
Processor	Intel® (or x86 compatible) Single Core 2 GHz or better (or Dual Core at 1.7GHz recommended)
Memory	2 GB RAM (minimum), 3 GB RAM (recommended)
Storage	80GB Hard Drive (minimum)
Video	32 bit, 1024 X 768 Resolution Capable (minimum)
Display	1024 X 768, 32 true bit color (recommended)
Ports	Two High Speed USB 2.0

A back-up storage device is recommended (DVD, External Hard Drive, other)

Note: Microsoft 8, Microsoft 8 RT, Microsoft Windows 7® Home Premium, Microsoft Windows Vista® Home Basic or Home Premium and Microsoft XP® Home and Tablet PC Editions are NOT recommended.

Getting Assistance

In the event that you require additional assistance, please contact your local dealer representative from whom you purchased your Midmark products. You may also contact Midmark Technical Services:

	
	Manufactured by: Midmark Corporation 675 Heathrow Dr. Lincolnshire, IL 60069
<p>Phone: 800-MIDMARK (800-643-6275) (Press 3) (U.S. and Canada)</p> <p>Phone: +1 847-415-9800 (Press 3) (International)</p> <p>Fax: +1 847-415-9801</p> <p>Email: imagingtechsupport@midmark.com</p> <p>Hours: 8:00 a.m.-5:00 p.m. CT</p>	
	CE Partner 4U Esdoornlaan 13 3951 DB Maarn The Netherlands

To facilitate your service call, the following information should be ready and available:

- Your computer operating system and version (example: Window 8 Pro)
- Version of Progeny® Imaging software. To determine the version, in Progeny® Imaging, select **Help > About Progeny Imaging**.
- Serial number of your Digital System (on the box that the sensor came in) and the individual Sensor serial number (attached to the sensor cable).
- Type of Progeny® Imaging installation (standalone, peer-to-peer network, client-server network).

When you call, please make sure that your Progeny® Imaging software is available and you have access to the digital sensor.

3. Install Progeny® Imaging

This section explains how to install Progeny® Imaging.

Installation Overview

You must install Progeny® Imaging on every computer where you want to view, acquire and store images. To install Progeny® Imaging you do the following:

1. Remove any previous version of Progeny® Imaging
2. Install the current version of Progeny® Imaging
3. Open the software and login as the Administrator
4. (Additional step only If you are upgrading from Progeny® Imaging 1.1.x.x): Remove Progeny® Device Service

About the Progeny® Flash Drive

Progeny® Imaging is installed from the Progeny® flash drive. The drive also contains the help file and the database software, MS SQL Server 2005 Express Edition. If MS SQL Server is not already installed on your computer, the Progeny® Software Installer will install it.

Before Installing Progeny® Imaging

Ensure that you are logged into your computer using an account that has Windows computer administrator privileges.

Note: *Progeny® Imaging's Installer requires that all users be logged into Windows as a computer administrator.*

Uninstalling Progeny® Imaging

If you are upgrading from a previous version of Progeny® Imaging, you must uninstall the earlier version of Progeny® Imaging before installing the latest version.

To Remove Progeny® Imaging

The steps below assume you are running Windows XP. If you are running Windows Vista/7/8, use the **Programs and Features** icon in the **Control Panel**.

1. From the Windows Start menu, select Control Panel. Then click on Add or Remove Programs.
2. In the **Add or Remove Programs** screen, select Progeny® Imaging.
3. Click Remove.

Note: *Uninstalling Progeny® Imaging and the Progeny® Device Suite does not remove the Progeny® Imaging database or MS SQL Server 2005 Express Edition: these components will be used if you re-install Progeny® Imaging.*

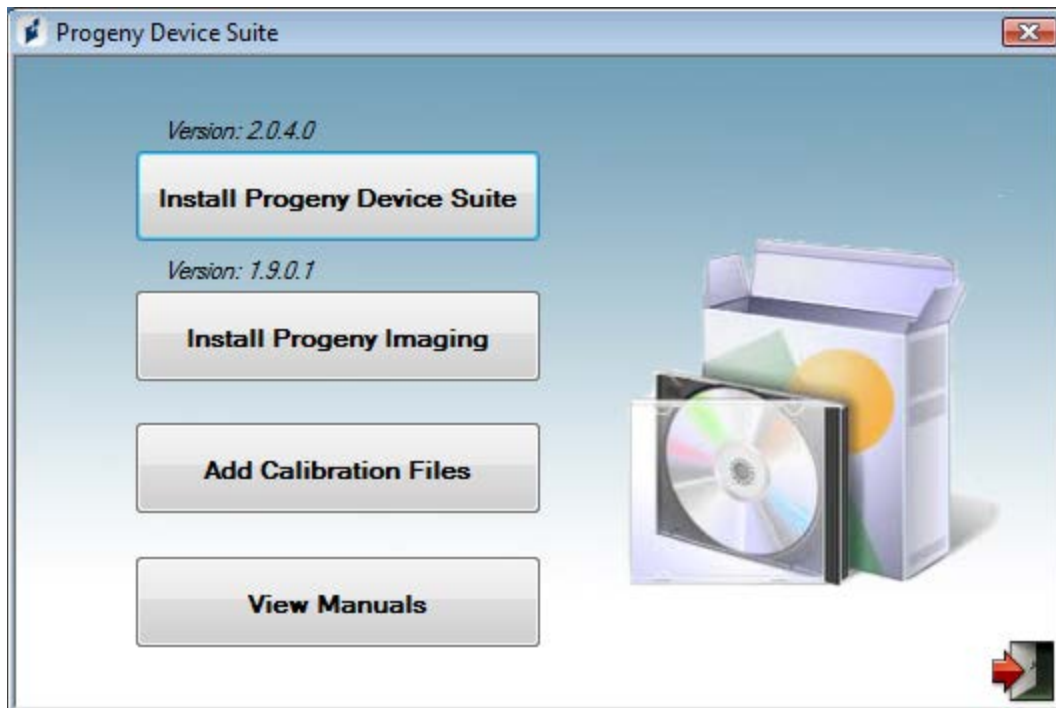
Installing Progeny® Imaging

Installation of Progeny® Imaging takes only a few minutes.

To Install Progeny® Imaging

1. Insert the Progeny flash drive into one of the computer's USB ports and allow the computer to recognize the flash drive.

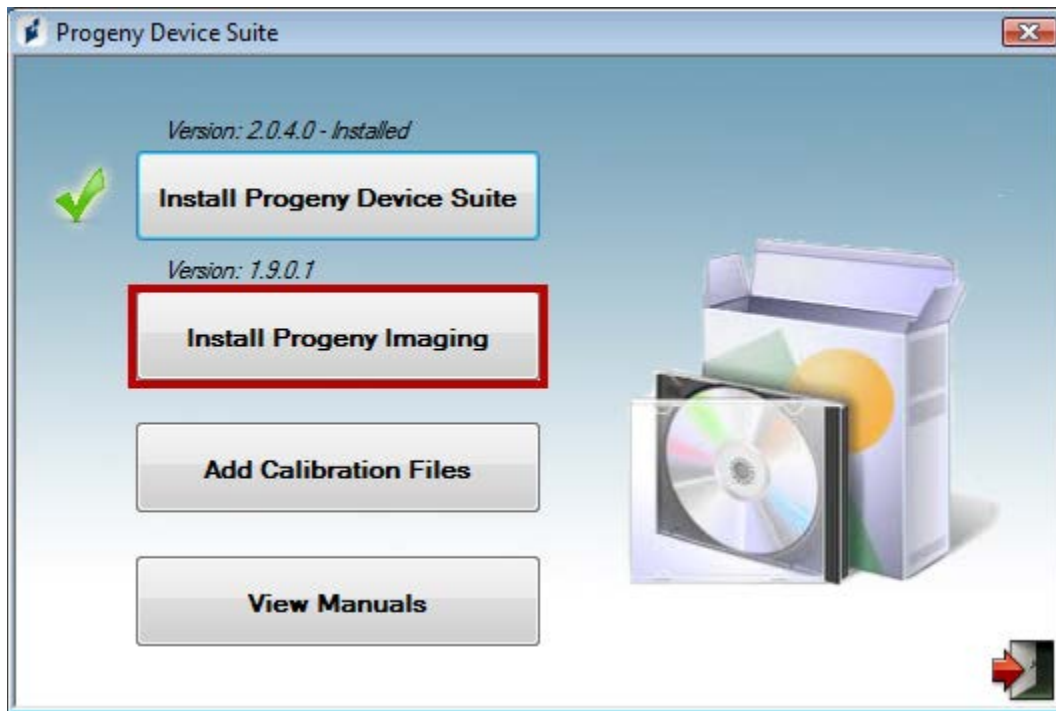
Note: If the Progeny Software Installer does not start automatically, use the Windows Start menu and select Run. Then type the path to the program on the Progeny® Imaging Installation disc.



Note: The version numbers in the image above may not reflect those displayed on screen.

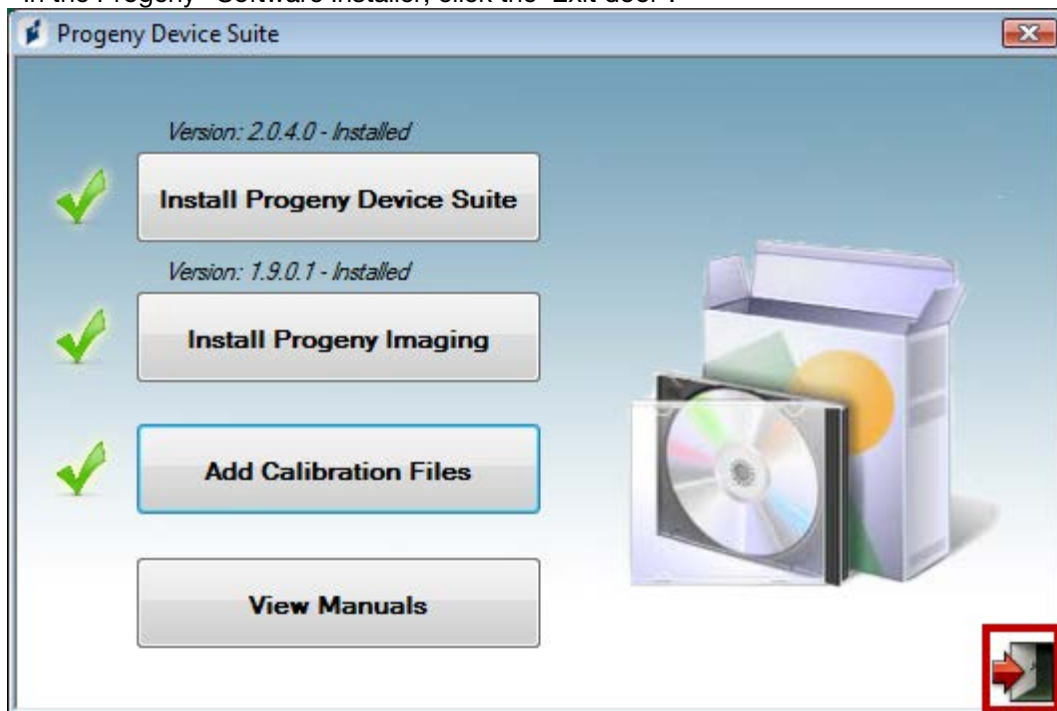
2. In the Progeny® Imaging Software Installer, click Install Progeny® Imaging.

Note: The Progeny® Device Suite software must be installed prior to attempting to install the Progeny® Imaging software.



Note: The version numbers in the image above may not reflect those displayed on screen.

3. If your computer does not have MS SQL Server 2005 Express Edition installed, you will see a license agreement. Click Accept.
4. In the Progeny® Software Installer, click the 'Exit door'.



Note: The version numbers in the image above may not reflect those displayed on screen.

Logging in for the First Time

Every time Progeny® Imaging is launched, the Login window appears. You must log in to use Progeny® Imaging.

Progeny® Imaging allows administrator users and ordinary users. Immediately after installing Progeny® Imaging, you will log in as Administrator. Later, the Administrator can use the User Manager window to set up user IDs and passwords for other administrators and ordinary users.

To Log in for the First Time

1. On your computer's desktop, double-click the Progeny® Imaging icon, or select Progeny® Imaging from your Windows Start menu.



2. In the Login screen Username field, type **Administrator**.

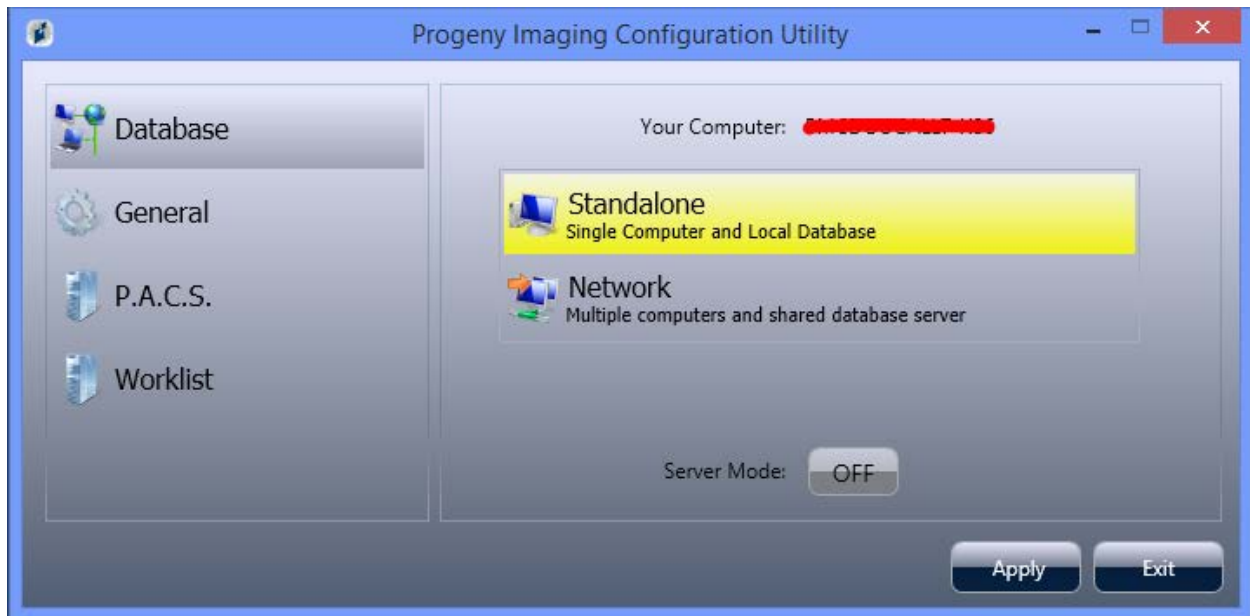
Note: If you are logging into the application in another language, you can use the localized operating system's version of the "Administrator" login.

3. Leave the Password field blank.
4. Click **Login**.

4. Using the Configuration Utility

This section gives procedures for configuring Progeny® Imaging.

Configuring Database Options



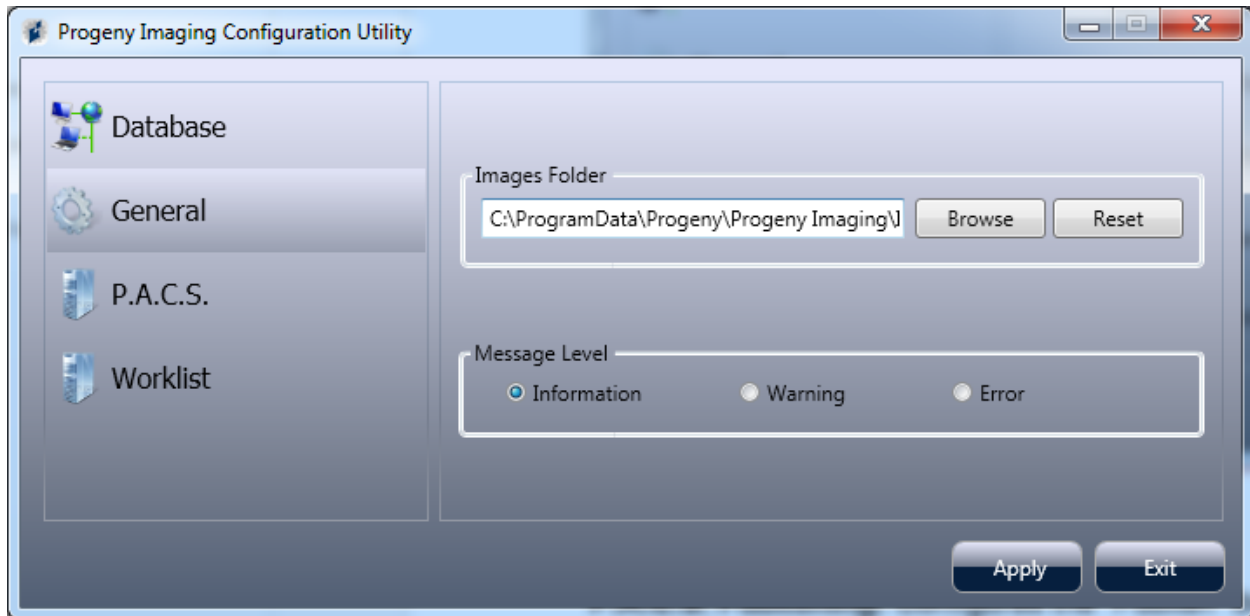
Your Computer: Displays the local computer's name

Database Type: Determines whether the machine will be storing images locally (Standalone) or will be connecting to another Progeny® Imaging instance over a network (Network).

Server Mode: Determines whether the local computer will act as a Progeny® Imaging server (only available in standalone mode).

Note: Progeny® Imaging requires that your office network be a setup as a workgroup (Peer-to-Peer, or P2P) or Windows domain (client-server) network. In a workgroup or domain network, all users must have appropriate privileges on all clients in the network. On a domain network, a domain server is required for authentication.

Configuring General Options

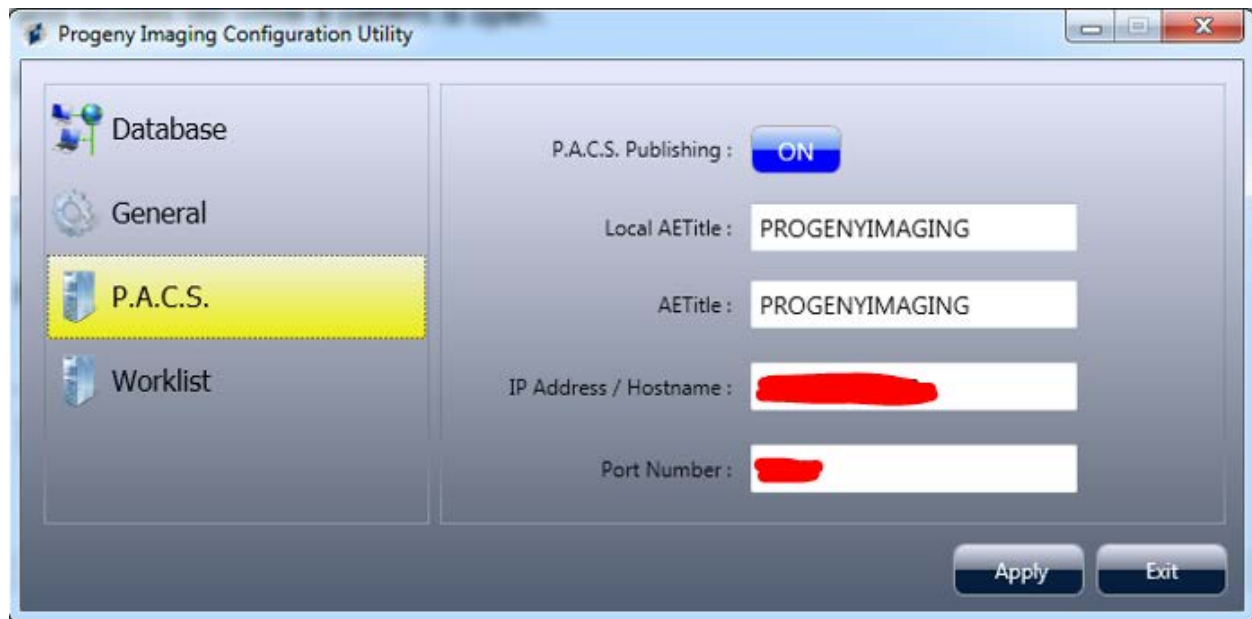


Images Folder: This is the folder where the patient images are stored. You can select a new location by using the **Browse** button or **Reset** to move them to their default location.

NOTE: *The software will prevent you from selecting the application's root folder*

Message Level: Determines the level at which to report errors in Progeny® Imaging – Information applying essentially no filter to log messages; and Error applying the greatest message filter – allowing only application errors to be logged.

Configuring a PACS. Server



Patient images acquired in Progeny® Imaging can be published (sent) to a P.A.C.S. server.

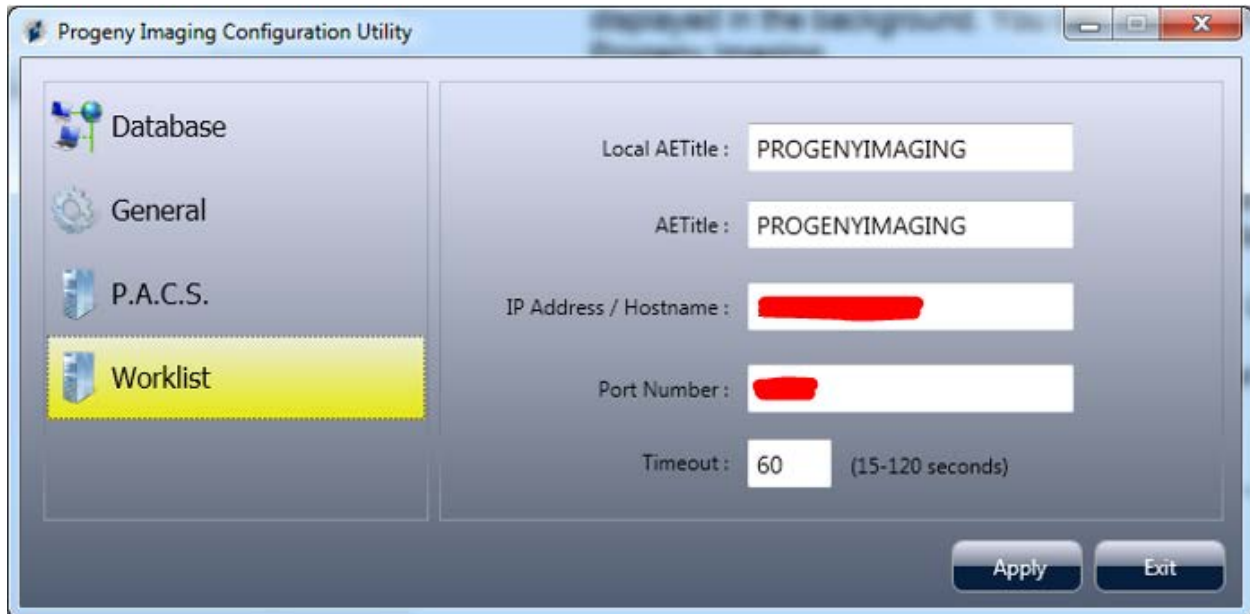
In order to enable publishing to a P.A.C.S. server, you will use the Configuration Utility included with Progeny® Imaging.

Progeny® Imaging acts in accordance with the DICOM SCP standard. It can transmit images and studies to a P.A.C.S. server over a TCP/IP connection but does not support receiving image, studies, or image information. Progeny® Imaging receives no return communication from the P.A.C.S. server indicating that the images were received.

Settings:

- **P.A.C.S. Publishing:** Option for “Publish” button
- **Local AETitle:** DICOM Local Application Entity Title (Calling Application)
- **AETitle:** DICOM Application Entity Title
- **IP Address/Hostname:** IP Address or Hostname of the destination P.A.C.S. server.
- **Port Number:** Destination port on the PACS server.

Configuring a Modality Worklist Server



Settings:

- **Local AETitle:** DICOM Local Application Entity Title (Calling Application)
- **AETitle:** DICOM Application Entity Title
- **IP Address/Hostname:** IP Address or Hostname of the destination Worklist server.
- **Port Number:** Destination port on the Worklist server.

Applying Changes

Before the change to the database takes effect you need to hit the apply button. If there is any issue with your configuration a red X will be displayed in the background indicating there is an issue with the configuration. If successful a checkmark will be displayed in the background. You can now quit the Configuration Utility and launch Progeny® Imaging.