



PEGASUS IMAGING CORPORATION

Pegasus Imaging Toolkits and the Windows Vista Environment

January 31, 2007

Introduction

With the introduction of Vista, our customers have been eager to understand how to develop with Pegasus Imaging Corporation (PIC) components on Vista machines. This technical bulletin provides information to assist developers who are working with PIC components within the stricter confines of Vista User Account Control.

Frequently asked questions include:

Will there be any impact in functionality or performance to current applications using PIC components in Vista?

No. There is no change at all in the functionality or performance of PIC components in Vista. Our existing components are fully capable in these environments and customers can continue to deploy them by following MS' application deployment rules already in place. Existing applications that utilize PIC components will require no changes in their PIC component usage, and will continue to benefit from the same functionality and speed-enhancements in Vista as in previous environments.

Do I need to download the new Vista-compatible release of PIC components, announced by Pegasus Imaging on January 31, 2007?

This free release of Vista-compatible components provides an update to our SDK installers. This update simply makes our sample code portfolio more accessible to developers working within the security confines of Vista. This release is offered for the convenience of our customers, and is not required to develop or deploy applications using PIC components in Vista.

How does the User Account Control paradigm impact Vista users?

Windows Vista includes a new security paradigm called User Account Control (UAC). The main goal of User Account Control is to minimize operating system exposure. The UAC paradigm restricts areas, such as the Program File directory and registry. An *administrator* has privileges which allow global changes to these areas. A *standard user* does not.

Standard users may modify restricted areas, such as the registry key LOCAL_MACHINE or the Program Files directory, but these changes are localized via an implicit process called *virtualization*. Virtualization hides the changes of a standard user from the global population on the system. Standard users who have modified restricted UAC areas will see the virtual information that they wrote; standard users who have not modified the area will see the global information, as written by the administrator.

Some applications (including legacy applications) are considered to be elevated, and require that all users have an elevated profile to run the application. Standard users will be prompted to provide a password to launch the application. Once the application is launched, the user is operating with elevated privileges, and takes on the administrator profile. Any subsequent profile changes are applied to the administrator profile, not the standard user's profile. All changes to UAC restricted areas are applied globally.

This behavior, while predictable, may be confusing to users new to the paradigm. For example, if Bob, as a standard user, modifies the registry, a virtual copy is created for standard user Bob. Subsequent changes to licensing (e.g. by Bob as an elevated user) will not be experienced by Bob as a standard user. Therefore, it is possible for Bob as a standard user to be operating with a PIC component in trial mode, even though Bob, as an elevated user, has licensed the control. This behavior can be easily changed by having Bob as a standard user re-apply the purchased license.

How has PIC modified product installers to facilitate customers who are operating within Vista UAC restrictions?

The January 31, 2007 release of PIC components changes the default location to which files are written. This will allow standard users to access and execute sample code without requiring elevated privileges.

How do I install PIC components on a machine running Vista?

If you are installing PIC components in Vista for the first time, or if you have previously installed Pegasus products to a machine running Windows XP and have upgraded to Vista, follow these steps to install and relocate the Pegasus products.

1. Download the latest version of the product from <http://www.pegasusimaging.com/>.
2. Run the installer. As an administrator elevated program, the installer will prompt the user for an administrator password. The installer will first uninstall any previously installed versions (for example, from the default directory C:\Program Files\Pegasus Imaging.) The installer will then install the product to the directory C:\Users\Public\Public Documents by default. This will enable all users (regardless of their rights and privileges) to access files and execute samples.

Note: Since the installer is an administrator elevated program, modifications such as adding the component icons to the toolbox are made to the administrator profile, not the standard user profile. Therefore, following installation, standard users must manually add the PIC components to the toolbox.

How do I license a developer version of the PIC Control on a machine running Vista?

Users can apply a developer license for a Pegasus Imaging Corporation component using one of the following alternative methods:

- **Recommended Method:** Apply the license during installation of the PIC control. If the license is applied during installation, the license and registration status is updated globally within the system.

OR

- Apply the license via the PIC control's trial license notification dialog box. The license and registration status is virtualized and therefore updated for the current user only. Other users on the system must enter the license codes again to be licensed.

How do I manage component version updates and registration status on Vista?

The PegConnect utility (PegConnect.exe) is a program designed to enable users to manage PIC component version updates and registration status. The PegConnect Utility will launch with automatic administrator elevation requested, and does not recognize virtualized license and registration information. Therefore, standard users who

invoke PegConnect with elevated privileges should be aware that the information provided by PegConnect is the global licensing information. This information will only be applicable to the standard user if that user's virtualized state has been updated to reflect the global state.

If your question was not addressed by this technical bulletin, please contact support: support@jpg.com.

About Pegasus Imaging

Founded in 1991 and headquartered in Tampa, Florida, Pegasus Imaging Corporation delivers digital imaging software development components, image compression and image editing technologies. The company exceeds speed and quality requirements for document imaging, forms processing, medical imaging, color/photo imaging, video applications and more. Technology is delivered as Microsoft .NET controls, COM controls, VCL's, DLL's and applications. Multiple platforms are supported, including Windows, Linux, Solaris, IBM AIX and Mac. Visit www.pegasusimaging.com. For more information, e-mail sales@jpg.com or call (813) 875-7575.

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