



Patch 143
Import OCX-Group Pointer Issue
Patch Description

VistA Imaging
MAG*3.0*143
May 2014

Department of Veterans Affairs
Office of Enterprise Development
Health Provider Systems

MAG*3.0*143 Patch Description
May, 2014

Property of the US Government

This is a controlled document. No changes to this document may be made without the express written consent of VistA Imaging development group.

While every effort has been made to assure the accuracy of the information provided, this document may include technical inaccuracies and/or typographical errors. Changes are periodically made to the information herein and incorporated into new editions of this document.

Product names mentioned in this document may be trademarks or registered trademarks of their respective companies, and are hereby acknowledged.

VistA Imaging Office of Enterprise Development
Department of Veterans Affairs

Internet: <http://www.va.gov/imaging>

VA intranet: <http://www.va.gov/imaging>

Revision Table

Rev	Date	Notes
1.0	08-Jan-2014	Initial draft, Garrett Kirin
1.1	30-Jan-2014	Review, Supriya Vattikuti
1.2	12-Feb-2014	Final review, Garrett Kirin
1.3	14-Feb-2014	Action item complete, Garrett Kirin
1.4	9-Jun-2014	Clin3 Action Items, Maryann Shovestul
1.5	29-Jun-2014	Garrett Kirin complete Clin 3 Action Items

Contents

Patch 143 Overview	1
Distribution of Software	1
Patch Contents	2
Software	2
Documentation	2
Associated Patches	2
Test Sites.....	2
Remedy Calls	2
NSRs	2
Patient Safety Issues	3
Patch 143 Changes	5
Summary	5
Issue	5
Problem	5
Solution.....	5
Import OCX Changes	5
VistA System Changes	5
Routines	5
Data Dictionary	6
Mail Groups	6
Forms	6
Security Keys.....	6
Remote Procedures	6
Menu Options	6
Protocols.....	6
Templates.....	6
Installation	7
Installation Planning	7
Installation Prerequisites	7
VistA System (KIDS) Installation.....	7
Installation Steps	7
KIDS Installation Example.....	8
Import OCX Installation	9
Manual Installation	9
Uninstalling the Import OCX MAG*3.0*143	14

This page is intentionally blank.

Patch 143 Overview

This document describes MAG*3.0*143, the patch that resolves the VistA Imaging Import OCX-Group Pointer Issue for the VistA Imaging (VI) Import Application Programming Interface (API).

The VI Import API is a utility created so that applications, other than VI, can attach patient document/images to the patient record. The Import API has M routines that are installed on the VistA System and an ActiveX control that is installed on the Background Processor (BP) workstation.

Applications implement the Import API through a Remote Procedure Call (RPC) to the VistA System. The RPC accepts an input array of data. Data is validated, and an Import Queue is created in the IMPORT QUEUE file (#2006.034). The BP processes the entries in the Import Queue, and during this process, the BP calls the methods of the Import OCX.

The features and fixes of MAG*3.0*143 are summarized below:

- MAG*3.0*143 addresses the issue of invalid group pointers in the VistA IMAGE (#2005) file. The issue occurs when an application that implements the Import API attempts to import a group of images and attach the group to a Text Integration Utility (TIU) Note.

Previous patches that included changes to the Import OCX also have included the BP application. MAG*3.0*143 contains only the Import OCX ActiveX control: MAG3_0P143_MagImportXControl1.ocx.

Note:

During the installation, you will rename this file (MAG3_0P143_MagImportXControl1.ocx.) to MagImportXControl1.ocx. In this document all references to MagImportXControl1.ocx are referring to the renamed file.

Distribution of Software

To obtain MAG*3.0*143 files, use File Transfer Protocol (FTP) to retrieve MAG3_0P143.KID and MAG3_0P143_MagImportXControl1.ocx from one of the following OI Field Offices' ANONYMOUS.SOFTWARE directories:

OI Field Office	FTP Address	Directory
-----	-----	-----
Albany	ftp.fo-albany.med.va.gov	anonymous.software

Hines	ftp.fo-hines.med.va.gov	anonymous.software
Salt Lake City	ftp.fo-slc.med.va.gov	anonymous.software

File Name	Description
-----	-----
MAG3_0P143.KID	KIDS build for patch MAG*3.0*143
MAG3_0P143_MagImportXControl1.ocx	Fixed software for MAG*3.0*143

Patch Contents

This patch includes software and documentation files.

Software

- MAG3_0P143.KID – KIDS (Kernel Installation and Distribution System) package to be installed on the Vista System
- MAG3_0P143_MagImportXControl1.ocx

Documentation

This document, MAG3_0P143_Patch_Description.pdf, provides an overview, explains the changes, and outlines the installation for this patch.

Associated Patches

This patch must be installed after MAG*3.0*135.

Test Sites

The following sites are test sites for this patch:

- Department of VA Medical Center in Wichita, KS
- VA Sierra Nevada HCS in Reno, NV
- VA Gulf Coast Veterans HCS in Biloxi, MS

Remedy Calls

The following Remedy help desk calls are addressed in this patch:

- INC000000916733, INC000000934023, INC000000935853, INC000000938228, INC000000938833, INC000000946566, INC000000951806, INC000000951838, INC000000951848, INC000000951855, INC000000951893, and INC000000951896.

NSRs

There are no new service requests addressed in this patch.

Patient Safety Issues

There are no patient safety issues associated with this patch.

This page is intentionally blank.

Patch 143 Changes

Summary

When a group of images are imported through the Import API and attached to a Text Integrated Utility (TIU) Note, the BP calls the Import OCX to process the import. During the process, an entry is made in the IMAGE (#2005) file for the group and for each image to be imported. The images are then copied to the Image Share. The last step in the process is to link the TIU Note to the Image Group. This link is made by the RPC MAG3 TIU IMAGE.

Issue

In Clinical Display, the user selects an Image Group to display. However, the images do not open, instead a warning dialog is shown, stating, "Questionable integrity: Missing parent image pointer." Also, in the VistA System error trap, the error "ERROR=<SUBSCRIPT>FILE+7~MAGGNTI" is logged.

Problem

In this case, when a group entry is being linked to a TIU Image, the value of the group pointer that is sent as a parameter in the MAG3 TIU IMAGE RPC is null and the images are not linked to the TIU Note.

The pointer from IMAGE File (#2005) to TIU Document (#8925) does not get set. Also, the pointer from TIU EXTERNAL DATA LINK File (#8925.91) to IMAGE File (#2005) does not get set.

Solution

A change made in MAG*3.0*135 import OCX inadvertently changed the parameter that was sent to the MAG3 TIU IMAGE RPC. The parameter sent was always null. The fix is to change the incorrect parameter to the correct parameter.

Import OCX Changes

There is a modification to the Import OCX method to send the correct parameter in the RPC call that links the TIU Note to the Image Group. No other methods are modified.

VistA System Changes

Routines

This section lists new and modified routines for the VistA System. For each routine, the second line will contain the following information:

- ;;3.0;IMAGING;**143**;Mar 19, 2002;Build 1;Feb 12, 2014
- CHECK1^XTSUMBLD is used to generate the checksums.

Routine	Checksum Before	Checksum After	Patch List
MAGIP143	NEW	4214971	**143**

Routine MAGIP143 is a post-install routine and is deleted after the KIDS install.

Data Dictionary

This patch contains no new or modified fields or files.

Mail Groups

This patch contains no new or modified mail groups.

Forms

This patch contains no new or modified forms.

Security Keys

This patch contains no new or modified security keys.

Remote Procedures

This patch contains no new remote procedure calls.

Menu Options

This patch contains no new menu options.

Protocols

This patch contains no new or modified protocols.

Templates

This patch contains no new or modified templates.

Installation

Installation Planning

This patch is to be installed on the VistA System and on the Background Processor machines. MAG*3.0*143 only includes the Import OCX:
MAG3_0P143_MagImportXControl1.ocx.

NOTE: The Background Processor need to be stopped and closed until the installation process in complete.

This patch must be installed by the compliance date to conform with the VHA Directive 2001-023.

This patch may be loaded while VistA Imaging System is active. Installation for the KIDS will take less than one minute. Installation for the Import OCX will take less than one minute.

Installation Prerequisites

Before installing this patch, you will need to download the MAG*3.0*143 files from the Download Server to a local storage location. Verify that the patches listed in the section Associated Patches on page 2 have been installed.

VistA System (KIDS) Installation

Installation Steps

1. Access the Kernel Installation and Distribution System Menu [XPD MAIN].
2. Run the Installation option [XPD INSTALLATION MENU].
3. Load the KIDS file by performing the following steps:
 - a. Run the Load a Distribution [XPD LOAD DISTRIBUTION] option to load the KIDS distribution.
 - b. When prompted, enter the path and file name (MAG3_0P143.KID) of the Patch 143 KIDS file that you downloaded from the Download Server.
 - c. When prompted to continue with the load, enter YES. A Distribution OK! message will be displayed when the load is complete.
4. After loading the KIDS file, use the following options to verify the contents of the patch. This is a good time to back up any affected routines.

- a. Verify Checksums in Transport Global [XPD PRINT CHECKSUM] – Run this option if you want to ensure the integrity of the routines in the patch.
 - b. Compare Transport Global to Current System [XPD COMPARE TO SYSTEM] – Run this option if you want to view all changes that will be made when the patch is installed. All components (routines, options, and so on) in the patch will be compared.
 - c. Back up a Transport Global [XPD BACKUP] – Run this option if you want to create a backup message of any routines exported with the patch. The option will NOT back up any of the other changes.
5. After performing the load and any optional verification steps, install the KIDS file by performing the following steps:
- a. Run the Install Package(s) [XPD INSTALL BUILD] option.
 - b. When prompted for the install name, enter MAG*3.0*143.
 - c. Answer NO to the following prompts, if they appear:

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//

Want KIDS to INHIBIT LOGONS during the install? NO//

6. When the installation has finished, an Install Completed message will be displayed.

KIDS Installation Example

This example shows the output when the KIDS file is installed for the first time. If you have already installed the patch and are installing the KIDS file in a namespace on which it has previously been installed, your output may be different.

```
Select Installation Option: Install Package(s)
Select INSTALL NAME:      MAG*3.0*143      2/14/14@00:36:07
=> Vista Imaging V3.0 Patch 143 - Import API OCX Group
Pointer Issue ;Cr

This Distribution was loaded on Feb 14, 2014@00:36:07 with header
of
  Vista Imaging V3.0 Patch 143 - Import API OCX Group Pointer
Issue ;Created o
n Feb 14, 2014@00:32:15
  It consisted of the following Install(s):
  MAG*3.0*143
Checking Install for Package MAG*3.0*143

Install Questions for MAG*3.0*143
```

```
Want KIDS to INHIBIT LOGONs during the install? NO//
Want to DISABLE Scheduled Options, Menu Options, and Protocols?
NO//
```

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

```
DEVICE: HOME//   HERE   MAG*3.0*143
```

```
Feb 14, 2014@00:36:15
```

```
Running Pre-Install Routine: PRE^MAGIP143
```

```
Running Post-Install Routine: POS^MAGIP143
```

```
Post Install Mail Message: Feb 14, 2014@00:36:15
```

```
Updating Routine file...
```

```
Updating KIDS files...
```

```
MAG*3.0*143 Installed.
```

```
Feb 14, 2014@00:36:15
```

```
Install Completed
```

Import OCX Installation

The Import OCX software for this patch will be installed manually. The file MAG3_0P143_MagImportXControl1.ocx needs to be installed and registered according to the instructions that follow. After the client installation is completed, follow the verify steps to assure the OCX has been correctly installed.

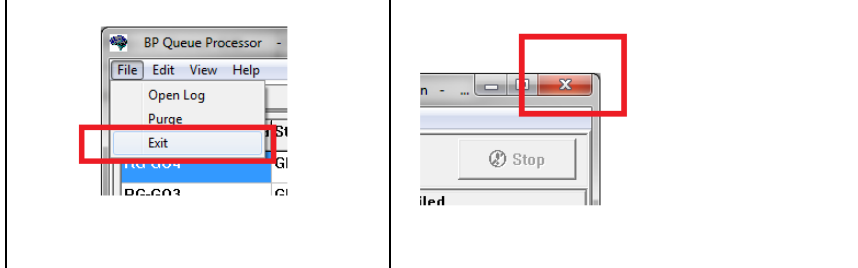
Manual Installation

Manually register the Import API OCX: MagImportXControl1.ocx:

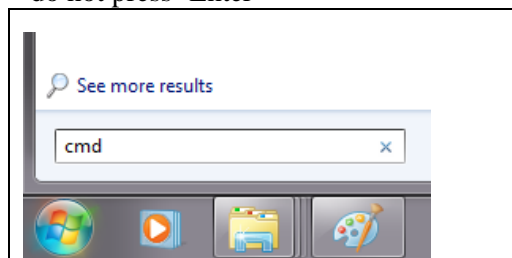
1. Close the BP application (don't just "stop," but close the application).

Closing the Background Processor	
Select the File Exit	Or Click 'X' in upper right corner

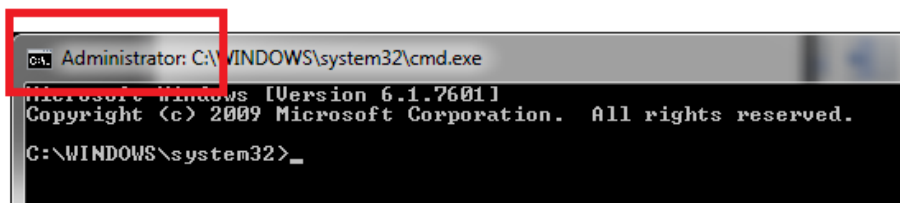
Closing the Background Processor



2. To register the OCX, you need to run the Command prompt as an administrator (even if you have administrator privileges, you still need to select Run As Administrator).
3. Open the start menu and type "cmd" into the search box, do not press 'Enter'



4. Hold the Ctrl + Shift keys at same time, and Now press Enter.
5. This runs the Command window in Administrator Mode.



6. Change directory to c:\program files (x86)\vista\imaging\lib.

```
Administrator: C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

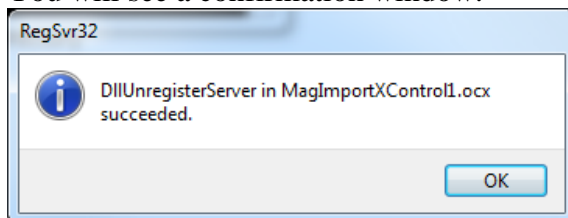
C:\WINDOWS\system32>cd\
C:\>cd "C:\Program Files (x86)\Vista\imaging\Lib"
C:\Program Files (x86)\Vista\imaging\Lib>_
```

Unregister the current OCX, using the regsvr32 command as shown

```
Administrator: C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd\
C:\>cd "C:\Program Files (x86)\Vista\imaging\Lib"
C:\Program Files (x86)\Vista\imaging\Lib>regsvr32 MagImportXControl1.ocx /u-
```

You will see a confirmation window.



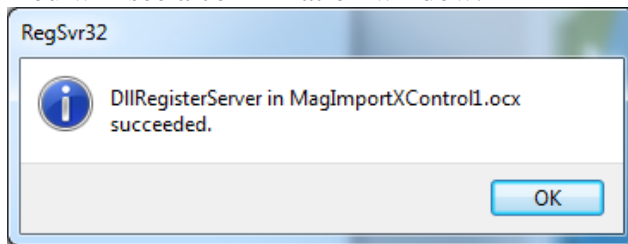
7. Rename existing OCX as 135 version (this is not required)
...\\Lib>rename MagImportXControl1.ocx MagImportXControl1.135.ocx.
8. Rename the file: MAG3_0P143_MagImportXControl1.ocx. to
MagImportXControl1.ocx
Copy the new Import API OCX Control: MagImportXControl1.ocx into the
...\\Lib directory.

Register the new OCX, as shown below

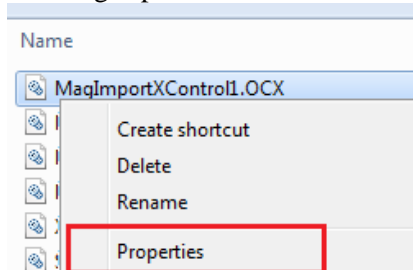
```
Administrator: C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd\
C:\>cd "C:\Program Files (x86)\Vista\imaging\Lib"
C:\Program Files (x86)\Vista\imaging\Lib>regsvr32 MagImportXControl1.ocx /u-
C:\Program Files (x86)\Vista\imaging\Lib>regsvr32 MagImportXControl1.ocx
```

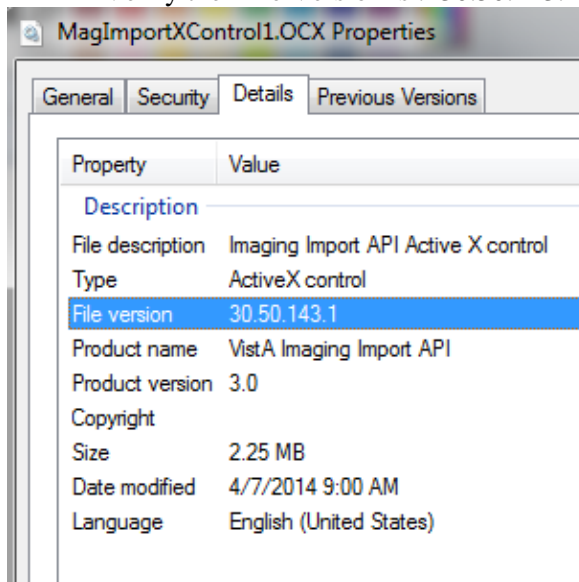
You will see a confirmation window.



9. Verify the version of the OCX through windows explorer. Right click on the MagImportXControl1.ocx. Select the Properties menu option.



In the Properties window, click the Details tab at the top of the window.
Verify the File Version is : 30.50.143.1



10. You can now restart the BP application:

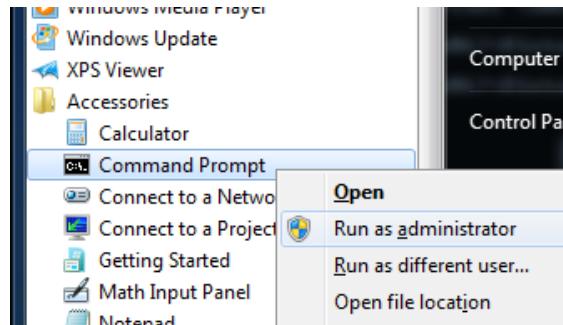
Note: OCX version numbers:

- The file version for the 135 OCX (old OCX) is 30.50.135.10.
- The file version for the 143 OCX (new OCX) is 30.50.143.1

As an Alternative to Step 2:

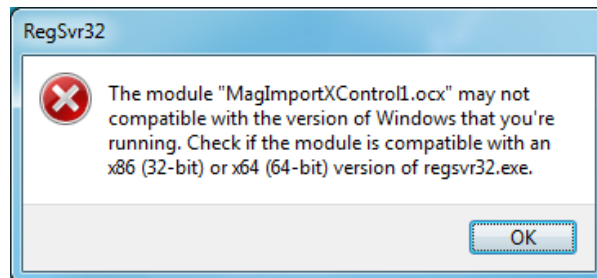
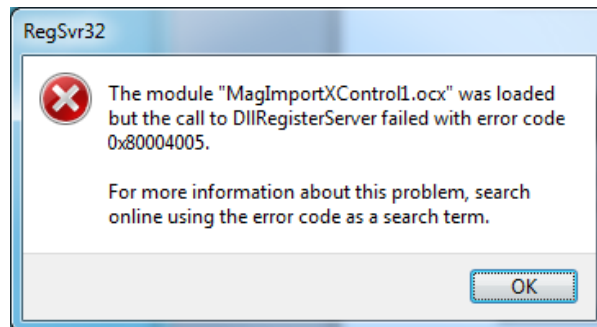
There is an alternate way to run the Command prompt as an administrator:

1. Click the Start button, and choose > All Programs > Accessories.
2. Right-click on Command prompt, select Run As Administrator.



Possible error messages:

1. When registering the new OCX, this error message will be displayed if you are not running as an administrator.
2. If you get this error, try changing the directory to c:\program files (x86)\vista\imaging\lib and then try to register again.



Uninstalling the Import OCX MAG*3.0*143

If necessary, uninstall the MAG*3.0*143 Import OCX by following these steps:

1. Uninstall the BP MAG*3.0*135, then reinstall it.
2. This will unregister the Import OCX from Patch 143 and will reinstall the Import OCX from Patch 135.