## ISI Group

# **Raptor VIX**

**Installation Guide** 



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#### 1 Introduction

The Raptor VistA Imaging Exchange (VIX) service is a service that provides access to images stored in VistA Imaging for the Raptor system.

#### 2 Prerequisites

The Raptor VIX requires the following for installation:

- 1. A Laurel Bridge DCF license key.
- 2. A VIX certificate.
- 3. The Raptor VIX installation package.
- 4. A x64 Windows Server 2008 R2 machine
- 5. The installation must be run as a user with administrator rights on the server.

#### 3 Installation

#### 3.1 Raptor VIX Installation

1. Double click on the Raptor\_VIX\_Setup\_30\_118\_100\_XX.msi to launch the MSI installer



- Press the Next button twice to accept the defaults and install the VIX Service Installation Wizard
- 3. Press the **Close** button when the installation is complete.
- 4. From the Start menu select Programs → Vista Imaging Programs → VIX Service Installation Wizard.



- 5. Press the **Next** button.
- 6. Enter site 9999 and press Lookup Server Addresses

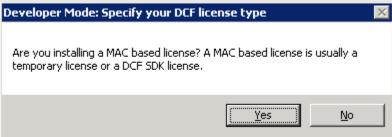


**Note**: the site number **9999** must be registered in the VA Site Service as the Raptor VIX. If another site number is designated for the Raptor VIX in the site service then that number should be used here.

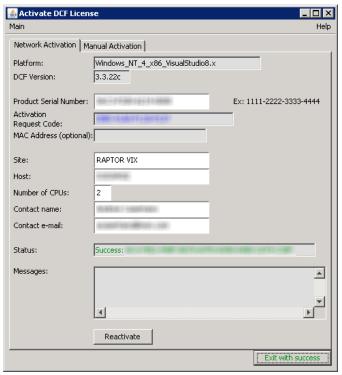
- 7. Press the **Next** button.
- 8. Click the button next to each VIX prerequisite



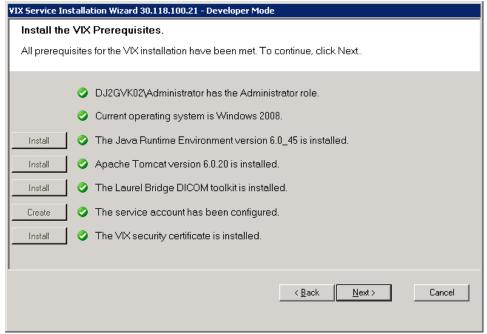
- 9. When installing Apache Tomcat it will ask you for a password for example: **Raptor123**. This password is used by Tomcat and will not be needed later.
- 10. When installing the Laurel Bridge DICOM toolkit you will need the Product Serial Number provided from the VA. If asked if you are installing a MAC based license, answer **No**.



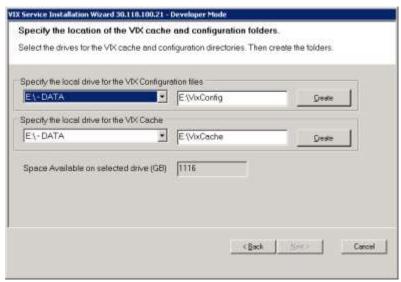
11. Enter the information required to activate the DCF license, then press the **Activate** button.



- 12. Click Exit with Success when the Laurel Bridge License has been installed
- 13. When creating the service account you will need to enter a password. Use the same password you used for Apache Tomcat.
- 14. When installing the VIX security certificate you will need to provide the ZIP file from the VA.
- 15. Press the **Next** button when all prerequisites have been met.

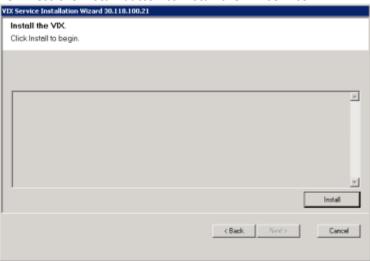


16. Press the **Create** button next to the VIX Configuration and VIX cache directories. Change the drive if the default selected is not where you want the configuration and cache files to exist. Then press the **Next** button



**Note**: On the production Raptor VIX the **VixConfig** and **VixCache** directories are on the **E**: \ drive.

- 17. Press **Next** to skip configuring local DoD connections for images.
- 18. Press the **Install** button to install the VIX service.



19. When complete, press the Finish button to close the VIX Service Installation Wizard.

#### 3.2 Hydra Installation

Hydra does not need to be installed on the same server as the Raptor VIX however it does need to be able to access the Raptor VIX. Users need to be able to access the Hydra service on port 9000.

- 1. Copy the Hydra directory to the e:\program files\ISI Imaging directory (create it if needed)
- Open a command prompt with administrator priveleges and from the e:\program files\ISI
   Imaging\Hydra directory run the following command:
   "C:\Windows\Microsoft.NET\Framework64\v4.0.30319\installutil.exe" Hydra.Host.Service.exe
- 3. Open the **Hydra.Host.Service.exe.config** file in a text editor
- Modify Hydra.PublicUrl value to http://<hostname of server Hydra is running on>:9000/
- 5. Modify ISIXServer. HostName to the hostname of the Raptor VIX server.
- 6. Modify ISIXServer.Port to 8090.

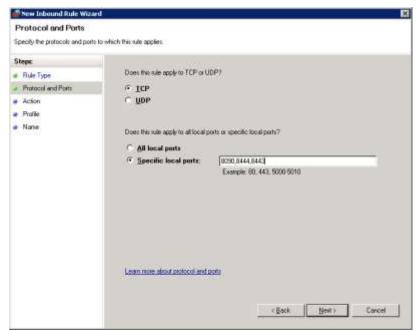
- 7. Save the **Hydra.Host.Service.exe.config** file and close the editor.
- 8. Right click on Computer (on the desktop) and select Manage.
- 9. Select Server Manager → Configuration → Services.
- 10. Right click on **Hydra Service** and select **Properties**.
- 11. Change the **Startup type** to **Automatic**.
- 12. Click the Start button and then click OK.

#### 3.3 Firewall Configuration

- 1. Right click on **Computer** and select **Manage**.
- 2. Expand Server Manager → Configuration → Windows Firewall with Advanced Security → Inbound Rules
- 3. Create a new rule
- 4. Specify it is a port rule and press Next.



5. Specify the specific ports **8090**, **8443** and **8444** for the rule when configuring the Raptor VIX. When configuring the server with Hydra specify port **9000**. Press **Next**.



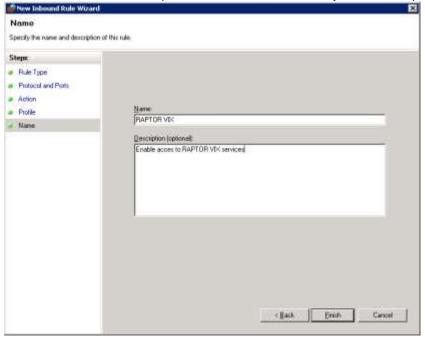
6. Specify to Allow the connection and press Next.



7. Specify the rule applies to **Domain**, **Private**, and **Public** and press **Next**.



8. Provide a name and description for the rule, such as Raptor VIX and press Finish.



### 4 Production Configuration

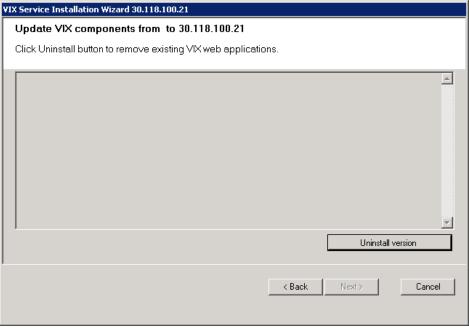
The configuration of the systems **will** need to be modified when they are deployed into production. The following steps should be performed after the servers have been fully configured with their proper hostnames and put into the correct domain:

#### 4.1 Raptor VIX

- 1. Send an email to the <u>VHAVIVIXSETUP@VA.GOV</u> email group requesting a VIX certificate for the Raptor VIX. Include the fully qualified domain name of the Raptor VIX server in the message.
- 2. Delete the e:\VixConfig\vhasites.xml file if it exists.
- 3. Delete the e:\VixConfig\VixInstallerConfig.xml file
- 4. Delete the e:\VixCertStore directory
- 5. From the Start menu select Programs → Vista Imaging Programs → VIX Service Installation Wizard.



- 6. Press the **Next** button.
- 7. Press the **Uninstall version** button.



- 8. Press the Next button.
- 9. Enter site 9999 and press Lookup Server Addresses

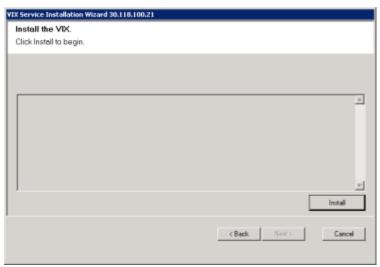


**Note**: the site number **9999** must be registered in the VA Site Service as the Raptor VIX. If another site number is designated for the Raptor VIX in the site service then that number should be used here.

- 10. Press the Next button.
- 11. In step 8, select the new certificate zip file issued by VistA Imaging for the Raptor VIX.



- 12. Press the **Next** button when all prerequisites have been met.
- 13. Press the **Next** button because the directories have already been created.
- 14. Press **Next** to skip configuring local DoD connections for images.
- 15. Press the **Install** button to install the VIX service.



16. When complete, press the Finish button to close the VIX Service Installation Wizard.

#### 4.2 Hydra

On each system Hydra is installed, the following configuration changes need to be made after the servers have been configured:

- 1. Modify the e:\program files\ISI Imaging\Hydra.Host.Service.exe.config file and change the Hydra.PublicUrl to the hostname needed to access Hydra (this is the fully qualified domain name of the web server Hydra is running on).
- 2. Modify the ISIXServer.HostName to the hostname of the Raptor VIX server.
- 3. Save the Hydra.Host.Service.exe.config file and restart the Hydra Service.

#### **Glossary**

**DCF** – DICOM Connectivity Framework, a Laurel Bridge product.

**DICOM** – Digital Imaging and Communications in Medicine

**URI** – Uniform Resource Identifier. Describes a name of a resource.

**URL** – Uniform Resource Locator. Defines a reference to a resource.

VA - Department of Veterans Affairs

**VistA** – A hospital information/electronic health record system developed by the Department of Veterans Affairs for use in VA hospitals. VistA stands for *Veterans Health Information Systems and Technology Architecture*.

VIX – VistA Imaging exchange service.

VistA Imaging –A VistA package used to manage images associated with a patient record in VistA.