## How to Add the Application Server Role on Windows Server-2008

This document describes how to set up the Application Server Role to host Galaxy components.

## **IMPORTANT NOTES:**

» Before you install the .Net Framework (part-1 of the Galaxy DVD) or the SG Web Module on a Windows<sup>®</sup> Server 2008 operating system, you must set up the *Application Server Role* to host these services.

## **STEPS:**

1. Start/Open the **Server Manager tool,** which is found in the control panel or the Windows Task Bar.



2. Select <u>Roles</u> in the object tree (left pane) and click the <u>Add Roles</u> option.



Figure 2 – Server Manager tool

- 3. In the Add Roles Wizard and Server Roles option, do the following:
  - a. select the Application Server check box
  - b. click the **Add Required Features** button *the dialog will close and the Application Server check box should be checked*

| Add Roles Wizard Select Ser   | ver Roles  | X   |
|---|--|---|
| Before You Begin<br>Server Roles<br>Confirmation<br>Progress<br>Results | Select one or more roles to install on this server.<br>Roles:<br>Active Directory Certificate Services<br>Active Directory Foderation Services<br>Active Directory Lightweight Directory Services<br>Active Directory Rights Management Services<br>Application Server | Description:<br><u>Active Directory Certificate Services</u><br>(AD_CS) is used to create certification<br>authorities and related role services<br>that allow you to issue and manage<br>certificates used in a variety of<br>applications.  |
|   | Add Roles Wizard Add features required for Application Server? You cannot install Application Server unless the required features are also installed.  |   |
|   | Features:<br>NET Framework 3.5.1 Features<br>NET Framework 3.5.1<br>Windows Process Activation Service<br>Process Model<br>NET Environment<br>Configuration APIs   | Description:<br><u>Microsoft NET Framework 3.5.1</u> combines<br>the power of the .NET Framework 2.0 APIs<br>with new technologies for building<br>applications that offer appealing user<br>interfaces, protect your customers' personal<br>identity information, enable seamless and<br>secure communication, and provide the<br>ability to model a range of business<br>processes. |
|   | Why are these features making?   | Add Required Features Cancel  |

Figure 3 – Add Roles Wizard ~selecting required features

4. In the Add Roles Wizard, the Application Server option should now be checked. Click Next to continue.

| Males Wizard   | er Roles   |   |
|--|--|---|
| Before You Begin<br>Server Adves<br>Application Server<br>Rele Services<br>Confirmation<br>Progress<br>Results | Seect one or nore roles to install on this server.<br>Release<br>Active Directory C<br>Active Directory Dom.<br>Active Directory Pedera.<br>Active Directory Rightwels<br>Active Direc | Description:<br>Application Server provides central<br>management and hosting of high-<br>performance dutributed business<br>applications such as those built with<br>Enterprise Services and ART<br>Pramework 3.5.1. |
|  | More about service raise   | Next > Shoul Cancel   |

Figure 4 – Add Roles Wizard ~ selected Application Server

5. In the wizard, the **Application Server** information screen will display. There are links on this screen to helpful information about the Application server. No configuration steps are performed on this screen. Click **Next** again to continue.



Figure 5 – Add Roles Wizard ~ Application Server screen

 (OPTIONAL – skip this step if you are not installing the Web Module) If you are installing the Web Module on this machine you must check the Web Server (IIS) option. A confirmation dialog box will display (see fig.6 below). Click the Add Required Role Services button.

| •  |  |   |
|--|--|---|
| Before You Begin<br>Server Roles<br>Application Server<br>Role Services<br>Confirmation<br>Progress<br>Results | Select the role services to install for Application Server:<br>Role services:<br>  | Description:<br><u>NET Framework 3.5.1</u> Includes<br>Windows Communication Foundation<br>(WCF), Windows Workflow Foundation<br>(WF) and Windows Presentation<br>Foundation (WPF). These frameworks<br>provide a powerful infrastructure for<br>creating securely connected services,<br>workflow driven applications, and rich<br>user experiences. |
|  | Add role services and features require<br>You cannot install Web Server (IIS) Support unless the req<br>Role Services:<br>Phylication Server<br>Windows Process Activation Service Support<br>Web Server (IIS)<br>Web Server<br>Management Tools<br>NET Framework 3.5.1 Features | ed for Web Server (IIS) Support?<br>ured role services and features are also installed.<br>Description:<br><u>Application Server</u> provides central<br>management and hosting of high-<br>performance distributed business<br>applications such as those built with<br>Enterprise Services and .NET Framework<br>3.5.1.                             |

Figure 6 – Add Roles Wizard ~ adding Required Role Services dialog

7. When the dialog box closes, the Add Roles Wizard should show the Web Server option is checked. Click the **Next** button to continue.



Figure 7 – Add Roles Wizard ~ Select Role Services

8. In the wizard, the **Web Server (IIS)** information screen will display. There are links on this screen to helpful information about the Web Server (IIS). No configuration steps are performed on this screen. Click **Next** to continue.

| Add Roles Wizard  | X   |
|---|---|
| Web Server (IIS)  |   |
| Before You Begin<br>Server Roles<br>Application Server<br>Role Services<br>Web Server (IIS)<br>Role Services<br>Confirmation<br>Progress<br>Results | Introduction to Web Server (IIS)         Web servers are computers that have specific software that allows them to accept requests from client computers and return responses to those requests. Web servers let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 7.0, a unified web plasment that they are services and return the Internet, and Windows Communication Foundation. IIS 7.0 also features enhanced security, simplified diagnostics, and delegated administration.         Things to Note <ul> <li>Using Wincows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, specially when there are multiple roles on this computer.</li> <li>The default instalation for the Web Server (IIS) role includes the instalation of role services that enable you to serve state content, make minor customizations (such as default documents and HTTP errors), montor and log server activity, and configure state content compression.         Additional Information</li></ul> |
| and the second state of the second  | <previous next=""> Install Cancel</previous>  |

Figure 8 – Add Roles Wizard ~ IIS info screen

9. On the **Select Role Services** screen, accept the default IIS options and click the **Next** button to continue.

| Add Roles Wizard  |  | ×   |
|---|--|---|
| Select Role Serv  | ices   |   |
| Before You Begin<br>Server Roles<br>Application Server<br>Role Services<br>Web Server (IIS)<br>Role Services<br>Confirmation<br>Progress<br>Results | Select the role services to install for Web Server (IIS):<br>Role services:<br>Web Server<br>Common HTTP Features<br>Static Content<br>Default Document<br>Directory Browsing<br>HTTP Redirection<br>WebDAY Publishing<br>Application Development<br>Trachtor<br>More: about role services | Description:<br>Web Server provides support for<br>HTML Web sites and optional support<br>for ASP,NCT, ASP, and Web server<br>extensions. You can use the Web<br>Server to host an internal or external<br>Web site or to provide an environment<br>for developers to create Web-based<br>applications. |
|   |  |   |

Figure 9 – Add Roles Wizard ~ Select Role Services (default settings)

10. When the **Confirm Installation Selections** screen displays, click the **Install** button.

| Add Roles Wizard                                       |   | X |
|--|---|---|
| Confirm Installat                                      | ion Selections  |   |
| Before You Begin<br>Server Roles<br>Application Server | To Install the following roles, role services, or features, click Install.  |   |
| Role Services<br>Web Server (IIS)                      | This server might need to be restarted after the installation completes.     Application Server                   |   |
| Role Services<br>Confirmation<br>Progress              | .NET Framework 3.5.1<br>Web Server (IIS) Support<br>Windows Process Activation Service Support<br>HTTP Activation |   |
| Results  | Web Server (IIS)     Find out more about Windows System Resource Manager (WSRM) and how it can help optimize      |   |
|  | Print, e-mail, or save this information   | 1 |
|  | < Previous Next > Install Cancel  |   |

Figure 10 – Add Roles Wizard ~ Confirm Installation

11. When the **Confirm Installation Selections** screen displays, click the **Close** button.

| Add Roles Wizard                 |  |                                      | ×        |
|----------------------------------|--|--------------------------------------|----------|
| Installation Resul               | ts   |                                      | 1        |
| Before You Begin<br>Server Roles | The folowing roles, role services, or f  | eatures were installed successfully: |          |
| Application Server               | Application Server   | Installation succeeded               | <u> </u> |
| Role Services                    | The following role services were in  | stalled:                             |          |
| Web Server (IIS)                 | .NET Framework 3.5.1   |                                      |          |
| Role Services                    | Windows Process Activation S   | Service Support                      |          |
| Confirmation                     | ITTP Activation  |                                      |          |
| Progress                         | Web Server (IIS)   | Installation succeeded               |          |
| Results                          | The following role services were in  | stalled:                             |          |
|                                  | Web Server<br>ISAPI Extensions   |                                      | -        |
|                                  | Print e-mail or save the installation r  | enort                                |          |
|                                  |  |                                      |          |
| -                                |  |                                      |          |
|                                  |  | < Previous Next > Close              | Geneel   |
| Land and the second second       | and the second s |                                      |          |

Figure 11 – Add Roles Wizard ~ Installation Results

12. Once the wizard closes, the Server manager should now indicate that the Application Server and the Web Server (IIS) roles have been installed. *The Web Server (IIS) should only be installed IF you plan on installing the SGWeb module on the machine)*.



Figure 12 – Server Manager ~ Roles Summary