# Installation Guide Marshal Reporting Console

March, 2009

# Contents

2
2
3
3
4
4
4
12
14
16
16
17
17
18

Marshal Reporting Console is a server-based tool that allows you to create reports on MailMarshal SMTP and WebMarshal system activity, threats, and blocked or quarantined items.

This document provides information about supported environments and prerequisites, as well as instructions for installation of the product.

For usage instructions, see the product Help. For late-breaking information and change history, see the Release Notes included with the product.



# Introduction

Marshal Reporting Console is a server-based tool that allows you to create reports on MailMarshal SMTP and WebMarshal system activity, threats, and blocked or quarantined items.

# Supported Installation Types

You can install Marshal Reporting Console in a number of scenarios. Marshal suggests type 1 below as a free solution for small installations. Type 2 or 3 below can be used by larger organizations that have the appropriate infrastructure and SQL Server licenses.

You can **upgrade** seamlessly from MailMarshal Reporting Console (2.0.1.x) to Marshal Reporting Console. For more information about upgrading, see the Release Notes.

#### 1. Standalone Server Installation (SQL Express Advanced 2005 or 2008):

- Install IIS, SQL Express Advanced Edition with Reporting Services and Marshal Reporting Console on a single server.
  - This server could be the intranet web server.
  - The MailMarshal SMTP and/or WebMarshal logging databases can be hosted on this or another database server.
  - The MailMarshal Spam Quarantine Management and Web Administration Console could be installed on the same server.
- **Advantages:** No cost for SQL Server software. Simplified installation and configuration (no configuration of Reporting Services required).
- Disadvantages: SQL Express does not support abort of running reports. SQL Express supports limited export formats (PDF and Excel only). SQL Express Advanced must be installed as a package; you cannot add SQL Reporting Services to an existing SQL Express installation. (However, it may be possible to install SQL Express Advanced as a second instance on a server that already has SQL Express installed.)

## 2. Standalone Server Installation (SQL Server 2005 or 2008):

- Install IIS, SQL Server, SQL Reporting Services, and Marshal Reporting Console on a single server.
  - This server could also host the MailMarshal SMTP and/or WebMarshal logging databases.
  - This server could host other IIS applications such as the MailMarshal Spam Quarantine Management and Web Administration Console (load permitting).
- Advantages: Full range of features. Single SQL server for all databases.
   Simplified installation and configuration of Reporting Services (when SQL Server and SSRS are installed at the same time, a default configuration is created).
- o **Disadvantages:** License required for SQL Server and SQL Reporting Services.

#### 3. Separate Server Installation (SQL Server 2005 or 2008):

- o Install SQL Server on one server.
  - The MailMarshal SMTP and/or WebMarshal logging databases can be hosted on this or another database server.
- Install IIS, SQL Reporting Services, and Marshal Reporting Console on another server.



- This server could be the intranet web server. The MailMarshal Spam Quarantine Management and Web Administration Console could be installed on the same IIS server.
- o Advantages: Full range of features. Single SQL server for all databases.
- **Disadvantages:** License required for SQL Server and SQL Reporting Services. Some manual configuration of Reporting Services is required.

## **Hardware Prerequisites**

The following are hardware prerequisites for the Marshal Reporting Console installation. Note that if Reporting Console databases are installed on the same computer as the MailMarshal SMTP and/or WebMarshal logging databases, the requirements for the product databases must also be considered. For information about MailMarshal SMTP and WebMarshal database sizing, see the *User Guide* for each product.

- Pentium, 3GHz
- 2 GB RAM
- Free disk space to support databases (10 GB free recommended)
- If installing standalone, SQL Express requires a minimum of 600 MB of free disk space for installation (in addition to database storage space)

## **Software Prerequisites**

The following are software prerequisites for the Marshal Reporting Console installation. Note that if Reporting Console is installed on the same computer as SQL Server, the SQL Server requirements must also be considered.

- Windows Server 2008, 32 or 64 bit versions (installed as a 32 bit application)
- Windows Vista Business or Ultimate, SP1, 32 or 64 bit versions (installed as a 32 bit application)
- Windows Server 2003, SP1 or above (32 bit versions)
- Windows XP, SP2 or above (32 bit versions)
- SQL Server 2005 with SP2, SQL Server 2005 Express Advanced Edition with SP2, SQL Server 2008, or SQL Server 2008 Express Advanced Edition
  - o Mixed Mode authentication enabled.
- Internet Information Services 5.1 or above
- .NET Framework 3.5 SP1
- The Marshal Reporting Console installer automatically installs the Microsoft Report Viewer.
- Supported browsers (for client workstations):
  - o Internet Explorer 6 or above

**Note:** To successfully connect to the MRC site using Internet Explorer from a computer running Windows Server 2003 or above, **uninstall** Internet Explorer Enhanced Security Configuration (IEESC) on the computer you are browsing from. IEESC blocks active content such as the ASP.NET code used by MRC. This behavior is by design. Adding the MRC site to "safe sites" may not resolve all issues created by IEESC.



If you cannot uninstall IEESC, browse from another workstation, or use another browser such as Firefox.

o Firefox 2.0 (2.0.0.12 or above)

# **Installation Procedures**

Installation varies depending on the selected installation type.

## Permissions

The SQL Report Server application requires write access to the Temporary ASP.NET files folder (by default, a path like

C:\WINDOWS\Microsoft.NET\Framework\V2.0.050727\Temporary ASP.NET Files). The .NET framework installer included with SQL Reporting Services correctly sets this permission for the Network Service account. SQL Express Advanced also correctly sets this permission. **However** if you previously installed .NET framework, and then install SQL Reporting Services, this permission may not be set.

• If you encounter an error referring to permissions on this folder, use Windows Explorer to set the permission. For more information, see this <u>File Permissions</u> topic from SQL Server Developer Center.

## Standalone Installation (SQL Express Advanced)

To install Marshal Reporting Console and SQL Express Advanced on the same server, complete the following steps.

- 1. Obtain SQL Server Express Edition (2005 SP2 or 2008) with Advanced Services (download from Microsoft).
- 2. If necessary, obtain .NET Framework 3.5 SP1 (download from Microsoft).

#### On the target server:

- 3. Log on to the server as an account with local administrator permissions.
- 4. Enable IIS (if it is not already enabled). For information about enabling IIS on various Windows versions, see <u>Appendix: Enabling IIS</u>.
- Install .NET 3.5 SP1.
   Note: You must enable IIS before installing the .NET framework. If you do not, SQL Express will not install correctly. For more information and troubleshooting help, see Marshal Knowledge Base article <u>Q12054</u>.
- Install SQL Express Advanced Edition.
   Note: The SQL Express installation first installs prerequisites and support files. After prerequisites are installed, click Next to continue with the installation.

#### A. If you are installing SQL Express 2005 With Advanced Services:

• In Feature Selection, add Reporting Services.

**Note:** Ensure you select the **entire feature** (including Report Manager) as in the screenshot below.



• Optionally add Management Studio Express.

🖓 Microsoft SQL Server 2005 Setup	X
Feature Selection Select the program features you want installed.	
Click an icon in the following list to change how a feature is installed.	
Database Services     Feature description     Installs the Report Server, which     manages, executes, renders, and     Will be installed on local hard drive     Settire feature will be installed on local hard drive	ort
Management Studio Express This feature requires 68 MB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 3246 KB on your hard drive.	;
Installation path	-
C: (Program Files (Microsoft SQL Server) Browse Disk Cost	
Help < Back Next > Cancel	

• In **Authentication Mode**, select *Mixed Mode* and enter a strong password for the SA account.

🖶 Microsoft SQL Server 2005 Setup			×
Authentication Mode The authentication mode specifies th connecting to SQL Server.	e security usec	l when	
Select the authentication mode to us	e for this instal	lation.	
<u>Windows</u> Authentication Mode <u>Mixed</u> Mode (Windows Authentication)	ation and SQL S	ierver Authentication	n)
Specify the sa logon password below	и.		
****			
Confirm <u>p</u> assword:			
<b>***</b> ****			
Help	< <u>B</u> ack	<u>N</u> ext >	Cancel

• In **Report Server Installation Options**, select *Install the Default Configuration.* 



🙀 Microsoft SQL Server 2005 Setu	р	×
Report Server Installation O Specify how to install a report serv	ptions ver instance.	
<ul> <li>Install the default configuration</li> <li>Install but do not configure the Setup will install the report server report server is usable as soon as</li> </ul>	a server and configure it to use the o Setup is finished.	Details
A Secure Socket Layer (SSL) certif recommends that you use SSL in m	icate is not installed on this lost Reporting Services insta < Back	computer. Microsoft allations. kt > Cancel

• Complete the wizard. The installation will create a Named Instance called SQLExpress.

**Note:** If you are installing on a computer that already has an instance of SQL Express installed, you may have to install a different Named Instance.

#### B. If you are installing SQL Express 2008 With Advanced Services:

- SQL 2008 requires Windows Power Shell. If this package is not installed, then install it first.
- Accept the default values except as noted below.
- In **Feature Selection**, add Database Engine Services and Reporting Services. Optionally add Management Tools Basic.





• In **Authentication Mode**, select *Mixed Mode* and enter a strong password for the SA account.

Database Engine Config	uration
Specify Database Engine authentica	tion security mode, administrators and data directories.
Setup Support Rules eature Selection Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> Reporting Services Configuration Tiror and Usage Reporting Installation Rules Eady to Install Installation Progress Complete	Account Provisioning       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.       Authentication Mode         C Windows authentication mode       • Windows authentication and Windows authentication)         Built-in SQL Server authentication and Windows authentication)       Built-in SQL Server authentication and Windows authentication         Built-in SQL Server authentication and Windows authentication       • • • • • • • • • • • • • • • • • • •

• In **Reporting Services Configuration**, select *Install the Native Mode Default Configuration*.



7



• Complete the wizard. The installation will create a Named Instance called SQLExpress.

**Note:** If you are installing on a computer that already has an instance of SQL Express installed, you may have to install a different Named Instance.

- 7. Enable TCP/IP for SQL Express.
  - A. Navigate to Start>Microsoft SQL Server >Configuration Tools>SQL Server Configuration Manager.
  - B. Select Network Configuration > Protocols for SQL Express. Enable TCP/IP.



- C. Select SQL Server Services.
- D. Start **SQL Server Browser** if it is not running. SQL Server Browser is required to allow connections to named instances.



E. Restart the **SQL Server service** for SQLEXPRESS (or the service name you just installed).

🙀 SQL Server Configuration Manager			
<u>File Action View H</u> elp			
😵 SQL Server Configuration Manager (Local)	Name	State	Start Mode
SQL Server 2005 Services	5QL Server Browser	Running	Automatic
SQL Server 2005 Network Configuration	SQL Server (SQLEXPRESS)	Running	Automatic
Protocols for SQLEXPRESS	SQL Server Reporting Servic	Runn	Stop
		- F	Pause
		F	Resume
		F	Res <u>t</u> art
			properties
		Ŀ	<u>t</u> elp
			<b></b>
Restart (stop and then start) selected service.			

- 8. Install Marshal Reporting Console.
  - A. On the **Setup Type** window, select a Virtual Directory name used to connect to the web application. You can accept the default value.

**Tip:** For instance, if the name of the server is intranetserver and you accept the default virtual Directory entry, you will connect to the website as http://intranetserver/MailMarshalReportingConsole/

B. On the Database Server Location window, if you installed SQL Express with the default configuration, select the database server localhost\SQLEXPRESS. If you installed a different named instance, select the instance you installed. (You must use the local SQL Express installation as the database server.) Enter a SQL username and password.

🕍 Marshal Repor	ting Console - Configuration Wizard	×
Database Serv Enter the hostn details.	er Location ame of your database server below and authentication	
Enter the hostnam name and passwo	ne of the database server below. Select to connect using a SQL user rd.	
<u>D</u> atabase Server	localhost\SQLEXPRESS	
<u>U</u> ser Name:	sa	
Password:	•••••	
Connect using	the TCP/IP Protocol	
	< <u>B</u> ack. <u>N</u> ext > Cancel	



**Note:** The user account must be allowed to create databases. To ensure adequate permissions use the SA account.

C. On the **Impersonate User Details** window, enter the Windows account and password that Reporting Console will use for access to local resources. This should be a local administrator. If you plan to add users from the domain environment, this account must also be a domain administrator.

🕍 Marshal Reporting Console - Configuration Wizard	×
Impersonate User Details	
Enter the administrator user name and password	
Please specify the Windows Username including Domain or Computer Name prefix (e.g. Domain/UserName).	
The Reporting Console will use this credential to access Windows resources. For more information about required privileges, see the Installation Guide.	
User Name: VM-EXAMPLE16\Administrator	
Password:	
< <u>B</u> ack <u>N</u> ext > 0	Cancel

D. On the **Email Configuration** window, enter details of an email server that Marshal Reporting Console will use to deliver reports and administrative messages.

🕍 Marshal Repo	rting Console - Configuration Wizard	×
Email Notifical Enter informati email.	tion Details ion required for the Marshal Reporting Console to send	
Enter the notific authentication n	ation email address, SMTP server hostname and optionally select the nethod to be used for delivering reports and notification by email.	
Sender <u>E</u> mail:	MarshalReporting@example.com Iest	
Sen <u>d</u> er Name:	Marshal Reporting Console Server	
SMTP <u>S</u> erver:	mm01.example.com Port: 25 🗖 Use SSL	
🔲 Use SMTP.	Authentication	
<u>U</u> ser lo	±	
<u>P</u> assw	ord:	
	< <u>B</u> ack <u>N</u> ext > Cancel	]

**Note:** The Sender Email address must be allowed to send mail through the specified server. The address should be valid for delivery and monitored by an administrator.



You can enter a user name and password for SMTP authentication, if required by the email server.

Click Test to verify the details by sending an email.

E. On the **SQL Report Services** window, enter the web address of the SQL Reporting Services website, and enter a deployment folder location. If necessary you can find the path using IIS Manager.

🚈 Marshal Reporting Console - Configuration Wizard	×
SQL Report Services Enter the SQL Report Server Location and Report Folder container to deploy Marshal Reports.	
SQL Reporting Server http://VM-EXAMPLE16/ReportServer\$SQLEXPRESS	
Report Deployment <u>Folder:</u>	
< <u>B</u> ack <u>N</u> ext > Cancel	

**Tip:** For instance, if the name of the server is intranetserver and you installed SQL Express 2005 with default settings, the entry should be http://intranetserver/ReportServer\$SQLExpress (for SQL Express 2008, http://intranetserver/ReportServer\_SQLExpress)

F. On the final window of the wizard, accept the defaults to start services and open the Console in a browser window.

**Tip:** See the note about Internet Explorer Enhanced Security Configuration in the Software Prerequisites section. To complete configuration, you may need to connect from another workstation.

9. Connect to the Marshal Reporting Console website using an account that is an administrator of the server. On the Configuration>Databases tab, add MailMarshal SMTP and/or WebMarshal databases that you want to report on, and users who can access the website. To learn more about the options on this tab, see Help.



	Search 🕹 Ea	avorites 🖉 🗔 🗸	2. 🚍			
bttp://localbost/MailMarst		sole/Configurations asn	× •			<b>T S</b> 60
		Logged In Ac:		Administrate	ar I Haar Satt	ingo   Holo2   Abo
		Logged in As.	VIVIEZAWIELETOV	Ruministrati	ur I <u>Oser Sett</u>	<u>ings   Heipr   Aoo</u>
IN-LOC	LAT			New Re	eport Manage	Reports Configuratio
MXKS	HAL					
Reporting	Console					
	_					
onfiguration						
onnguration						
Databases						
			Marshald	latabase ad	ded.	
Jsers and Groups						
Users and Groups	Marsha	l Databases				
Printers	Marsha	I Databases	Database Nam	6	Time	Edit/Remove
Printers	Marshal	I Databases Server Name	Database Nam mailmarshal65	e	Type MailMarshal	Edit/Remove
Users and Groups Printers Retention Periods	Marshal	I Databases Server Name Iocalhost Iocalhost	Database Nam mailmarshal65 webmarshal616	e	Type MailMarshal WebMarshal	Edit/Remove
Jsers and Groups Printers Retention Periods Email Settings	Marshall ID 1 2	I Databases Server Name Iocalhost Iocalhost	Database Nam mailmarshal65 webmarshal616	2	Type MailMarshal WebMarshal	Edit/Remove
Users and Groups Printers Retention Periods Email Settings	Marshal ID 1 2	I Databases Server Name I localhost I localhost Add MailMa	Database Nam mailmarshal65 webmarshal616 arshal Database		Type MailMarshal WebMarshal Add WebMarsha	Edit/Remove
Users and Groups Printers Retention Periods Email Settings mpersonate User Details	Marshal 10 1 2	I Databases Server Name localhost localhost Add MailMa	Database Nam mailmarshal65 webmarshal616 arshal Database	e ) 	Type MailMarshal WebMarshal Add WebMarsh	Edit/Remove
Jsers and Groups Printers Retention Periods Email Settings Impersonate User Details	Marshal	I Databases Server Name localhost localhost Add MailMa	Database Nam mailmarshal65 webmarshal616 arshal Database		Type MailMarshal WebMarshal	Edit/Remove
Jsers and Groups Printers Retention Periods Email Settings Impersonate User Details Report Customizations	Marshal	I Databases Server Name localhost localhost Add MailMa ng Console Config	Database Nam mailmashal65 webmashal610 arshal Database guration Database		Type MailMarshal WebMarshal	Edit/Remove
Jsers and Groups Printers Retention Periods Email Settings Impersonate User Details Report Customizations	Marshal	I Databases Server Name localhost localhost Add MailMa ng Console Config Name	Database Nam mailmashal65 webmashal610 arshal Database guration Database	e 3 9 Database Na	Type MailMarshal WebMarshal Add WebMarsha	Edit/Remove
Users and Groups Printers Retention Periods Email Settings Impersonate User Details Report Customizations	Marshal ID 1 2 S S Server N Iocalhost	I Databases Server Name localhost Localhost Add MailMa ng Console Config Name	Database Nam mailmarshal65 webmarshal610 arshal Database guration Database	e Database Na MMReportsC	Type MailMarshal WebMarshal Add WebMarsh	Edit/Remove

## Separate Server Installation (SQL Server 2005 or 2008)

The detailed instructions in this section assume that you have already installed and configured SQL Server and SQL Reporting Services. Marshal Reporting Console is installed on the same computer as SQL Reporting Services.

Marshal has validated the following settings for SQL and Reporting Services in this scenario:

- Enable TCP/IP connections to SQL Server.
- Enable Mixed Mode authentication on SQL Server. Remote connections from the Marshal Reporting Console require SQL authentication.
- Enable SQL Server Browser. This setting allows the Marshal Reporting Console installer to find the SQL Server.
- After installing SQL Reporting Services 2005, you must configure settings using Reporting Services Configuration Manager. The default settings for most options can be used. The Marshal Reporting Console installation will present a window that allows you to configure these items. However, Marshal recommends you ensure that SSRS is initialized before you install MRC.

**Note:** If you are using SQL Reporting Services 2008, the SSRS installer preconfigures appropriate settings.

- o **Report Server Virtual Directory:** ReportServer on default web site.
- **Report Manager Virtual Directory:** Reports on default web site.
- o Windows Service Identity: Service Account: Local System.



- o Web Service Identity: NT Authority\Network Service, DefaultAppPool
- Database Setup:
  - Server name: the existing remote SQL Server
  - Database name: ReportServer
  - Credentials Type: SQL Server use an account with full privileges. This account must have permission to create databases.

#### On the target server for Marshal Reporting Console:

- 1. Install Marshal Reporting Console.
  - On the **Setup Type** window, select a Virtual Directory name used to connect to the web application.
  - On the Database Server Location window, click Refresh to view a list of available servers.

Note: Only servers running the SQL Server Browser display in this list.

Select or enter the details of the remote SQL server. If the server runs multiple SQL instances, you can use the format *servername\instancename*. Enter a SQL username and password. Select TCP/IP connection.

Note: The user account must be allowed to create databases.

- On the **Impersonate User Details** window, enter the Windows account and password that Reporting Console will use for access to Windows resources. This should be a local administrator. If you plan to add users from the domain environment, this account must also be a domain administrator.
- For SSRS 2005 installations only, if SSRS configuration is not complete, the SQL Server Reporting Server Configuration window displays. On this window, configure SSRS settings. In most cases you can accept the default settings.

Marshal Reporting Console -	Configuration Wizard	×			
SQL Server Reporting Server Configuration					
Enter the SQL Server Repo	ting Server configuration information.				
Virtual Directories					
Website:	Default Web Site				
Server Virtual Directory:	ReportServer				
Manager Virtual Directory:	Reports				
Database Setup					
Database Name:	ReportServer				
Service Identities					
Windows Service	LocalSystem				
Web Service:					
		_			
	< <u>B</u> ack <u>N</u> ext > Cancel				

 On the Email Configuration window, enter details of an email server that Marshal Reporting Console will use to deliver reports and administrative messages.



**Note:** The Sender Email address must be allowed to send mail through the specified server. The address should be valid for delivery and monitored by an administrator.

You can enter a user name and password for SMTP authentication, if required by the email server.

Click Test to verify the details by sending an email.

A. On the SQL Report Services window, enter the web address of the SQL Reporting Services website, and enter a deployment folder location. If necessary you can find the path using IIS Manager.

**Tip:** For instance, if the name of the server is intranetserver and you installed SQL Server as the default instance, the entry should be http://intranetserver/ReportServer

B. On the final window of the wizard, accept the defaults to start services and open the Console in a browser window.

**Tip:** See the note about Internet Explorer Enhanced Security Configuration in the Software Prerequisites section. To complete configuration, you may need to connect from another workstation.

 Connect to the Marshal Reporting Console website using an account that is an administrator of the server. On the Configuration tab, add MailMarshal SMTP and/or WebMarshal databases that you want to report on, and users who can access the website. To learn more about the options on this tab, see Help.

## Same Server Installation (SQL Server 2005 or 2008)

The detailed instructions in this section assume that you have already installed and configured SQL Server and SQL Reporting Services. Marshal Reporting Console is installed on the same computer as SQL Reporting Services.

Marshal has validated the following settings for SQL and Reporting Services in this scenario:

- Enable TCP/IP connections to SQL Server.
- Enable Mixed Mode authentication on SQL Server.
- Enable SQL Server Browser. This allows the Marshal Reporting Console installer to find the SQL Server.
- When you install Reporting Services at the same time as SQL Server, by default the Reporting Services installation creates appropriate settings. You can review these settings after installation using Reporting Services Configuration Manager. Ensure that Reporting Services is initialized before you install MRC. For information about suggested settings see the "separate server installation" section above.

#### On the target server for Marshal Reporting Console:

- 1. Install Marshal Reporting Console.
  - On the **Setup Type** window, select a Virtual Directory name used to connect to the web application.
  - On the Database Server Location window, select or enter the server name do not use (local). If the server runs multiple SQL instances, you can use the format servername\instancename.

Enter a SQL username and password.

Note: The user account must be allowed to create databases.



- On the Impersonate User Details window, enter the Windows account and password that Reporting Console will use for access to local resources. This should be a local administrator. If you plan to add users from the domain environment, this account must also be a domain administrator.
- On the Email Configuration window, enter details of an email server that Marshal Reporting Console will use to deliver reports and administrative messages.

**Note:** The Sender Email address must be allowed to send mail through the specified server. The address should be valid for delivery and monitored by an administrator.

You can enter a user name and password for SMTP authentication, if required by the email server.

Click Test to verify the details by sending an email.

C. On the **SQL Report Services** window, enter the web address of the SQL Reporting Services website, and enter a deployment folder location. If necessary you can find the path using IIS Manager.

**Tip:** For instance, if the name of the server is intranetserver and you installed SQL Server as the default instance, the entry should be http://intranetserver/ReportServer

D. On the final window of the wizard, accept the defaults to start services and open the Console in a browser window.

**Tip:** See the note about Internet Explorer Enhanced Security Configuration in the Software Prerequisites section. To complete configuration, you may need to connect from another workstation.

 Connect to the Marshal Reporting Console website using an account that is an administrator of the server. On the Configuration tab, add MailMarshal SMTP and/or WebMarshal databases that you want to report on, and users who can access the website. To learn more about the options on this tab, see Help.



# Appendix: Enabling IIS

This section briefly outlines the steps and options required to enable Internet Information Services on supported Windows versions.

#### Windows Server 2008

- 1. Open Server Manager (Start>Administrative Tools>Server Manager).
- 2. Expand Roles.
- 3. Add the Role Web Server (IIS).

Add Roles Wizard	×
Select Server Roles	
Before You Begin       Select one or more roles to install on this server.         Roles:       Roles:         Web Server (IIS)       Active Directory Certificate Services         Active Directory Domain Services       Active Directory Oragins Services         Progress       Active Directory Rights Management Services         Active Directory Rights Management Services       Active Directory Rights Management Services         Dire Server       Dire Server         Dire Services       Web Server (IIS)         Windows Deployment Services       More about server roles	Description:         Web System (IIS) provides a reliable, manageable, and scalable Web application infrastructure.         application infrastructure.

4. On the Select Role Services window, in addition to the defaults, add Role Services **ASP.NET** and **Windows Authentication**.

Add Roles Wizard		×
Select Role Servi	ices	
Before You Begin Server Roles Web Server (IIS) Role Services Confirmation Progress Results	Select the role services to install for Web Server (IIS): Role services:	Description: <u>Windows authentication</u> is a low cost authentication solution for internal Web sites. This authentication scheme allows administrators in a Windows domain intrastructure for authenticating users. Do not use Windows authentication fuers who must be authenticated access your Veb site from behind freewalls and proxy servers.



5. Complete the wizard to enable this component.

## Windows Vista

- 1. Navigate to Start>Control Panel>Programs and Features>Turn Windows features on or off.
- 2. Select Internet Information Services.
- 3. Expand Internet Information Services, expand the required feature sets, and select **ASP.NET** and **Windows Authentication**.

🔄 Windows Features	- • •
Turn Windows features on or off	0
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box part of the feature is turned on.	means that only
🖃 🔲 🖟 Internet Information Services	*
😨 🔲 🔓 FTP Publishing Service	
🗉 🔲 🚡 Web Management Tools	
🖃 🔲 🎍 World Wide Web Services	
Application Development Features	
.NET Extensibility	
ASP	
ASP.NET	
	E
ISAPI Extensions	
ISAPI Filters	
Basic Authentication	
Client Certificate Mapping Authentication	
Digest Authentication	
IS Client Certificate Mapping Authentication	
IP Security	
Request Filtering	
URL Authorization	
Windows Authentication	
Microcoft NET Eramowork 2.0	*
ОК	Cancel

4. Click **OK** to enable this component.

#### Windows Server 2003

1. Navigate to Start>Control Panel>Add/Remove programs>Add/Remove Windows components.



2. Select Application Server (the default limited set of options is all that is required).

Windows Components You can add or remove components of Windows. To add or remove a component, click the checkbox. A shaded part of the component will be installed. To see what's included in Details	box means that only in a component, click
To add or remove a component, click the checkbox. A shaded part of the component will be installed. To see what's included i Details	box means that only in a component, click
D'Ordino.	
Components:	
🗹 📻 Accessories and Utilities	4.9 MB 🔺
🗹 📑 Application Server	33.4 MB 🛁
🔲 📴 Certificate Services	1.4 MB
🔲 🛄 E-mail Services	1.1 MB
Eax Services	7.9 MB 🗾
Description: Includes ASP.NET, Internet Information Services ( Application Server Console.	(IIS), and the
Total disk space required: 2.9 MB	Details
Space available on disk: 2232.0 MB	
< <u>B</u> ack <u>N</u> ext>	Cancel Help

3. Complete the process to enable this component.

#### Windows XP

- 1. Navigate to Start>Control Panel>Add/Remove programs>Add/Remove Windows components.
- 2. Select **Internet Information Services** (the default limited set of options is all that is required).

Windows Components Wizard		
Windows Components You can add or remove components of Windows XP.		
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.		
Devices 3.0 MD		
U.U.MB		
COMB 0.0 MB		
🗹 😋 Internet Information Services (IIS) 13.5 MB		
🗆 🖶 Management and Monitoring Tools 🛛 🛛 🖉		
Description: Includes Web and FTP support, along with support for FrontPage, transactions, Active Server Pages, and database connections. Total disk space required: 54.1 MB		
Space available on disk: 4616.2 MB		
< <u>B</u> ack <u>N</u> ext > Cancel		

3. Complete the process to enable this component.



THIS DOCUMENT AND THE SOFTWARE DESCRIBED IN THIS DOCUMENT ARE FURNISHED UNDER AND ARE SUBJECT TO THE TERMS OF A LICENSE AGREEMENT OR A NON-DISCLOSURE AGREEMENT. EXCEPT AS EXPRESSLY SET FORTH IN SUCH LICENSE AGREEMENT OR NON-DISCLOSURE AGREEMENT, MARSHAL LIMITED PROVIDES THIS DOCUMENT AND THE SOFTWARE DESCRIBED IN THIS DOCUMENT "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW DISCLAIMERS OF EXPRESS OR IMPLIED WARRANTIES IN CERTAIN TRANSACTIONS; THEREFORE, THIS STATEMENT MAY NOT APPLY TO YOU.

This document and the software described in this document may not be lent, sold, or given away without the prior written permission of Marshal, except as otherwise permitted by law. Except as expressly set forth in such license agreement or non-disclosure agreement, no part of this document or the software described in this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, or otherwise, without the prior written consent of Marshal. Some companies, names, and data in this document are used for illustration purposes and may not represent real companies, individuals, or data. This document could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes may be incorporated in new editions of this document. Marshal may make improvements in or changes to the software described in this document at any time.

#### © 2009 Marshal Limited, all rights reserved.

U.S. Government Restricted Rights: The software and the documentation are commercial computer software and documentation developed at private expense. Use, duplication, or disclosure by the U.S. Government is subject to the terms of the Marshal standard commercial license for the software, and where applicable, the restrictions set forth in the Rights in Technical Data and Computer Software clauses and any successor rules or regulations.

Marshal, MailMarshal, the Marshal logo, WebMarshal, Security Reporting Center and Firewall Suite are trademarks or registered trademarks of Marshal Limited or its subsidiaries in the United Kingdom and other jurisdictions. All other company and product names mentioned are used only for identification purposes and may be trademarks or registered trademarks of their respective companies.



Marshal's Worldwide and EMEA HQ Marshal Limited, Renaissance 2200, Basing View, Basingstoke, Hampshire RG21 4EQ United Kingdom

Phone: +44 (0) 1256 848080 Fax: +44 (0) 1256 848060

Email: emea.sales@marshal.com

Americas Marshal Inc. 5909 Peachtree Dunwoody Road NE, Suite 770, Atlanta, GA 30328 USA

Phone: +1 404 564-5800 Fax +1 404 564-5801

Email: americas.sales@marshal.com info@marshal.com | www.marshal.com

Asia-Pacific Marshal Software (NZ) Ltd Suite 1, Level 1, Building C Millennium Centre 600 Great South Road Greenlane, Auckland New Zealand

Phone: +64 9 984 5700 Fax: +64 9 984 5720

Email:apac.sales@marshal.com

19