

Installing BizTalk Server 2010 on Windows Server 2008 R2 and 2008

Microsoft Corporation

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Contents

[Installing BizTalk Server 2010 on Windows Server 2008 R2 and 2008 6](#_Toc305588395)

[Introduction 6](#_Toc305588396)

[How to Use this Document 6](#_Toc305588397)

[Checklist: Planning Your Installation 7](#_Toc305588398)

[Choosing your BizTalk Server Features and Components 8](#_Toc305588399)

[Feature Dependency Matrix 9](#_Toc305588400)

[Hardware Requirements 11](#_Toc305588401)

[Software Requirements 12](#_Toc305588402)

[Considerations When Installing BizTalk Server 2010 13](#_Toc305588403)

[Preparing Your Computer for Installation 15](#_Toc305588404)

[Install Critical Windows Updates 15](#_Toc305588405)

[Enable Internet Information Services 15](#_Toc305588406)

[Install Microsoft Office Excel 2010 or 2007 16](#_Toc305588407)

[Install Visual Studio 2010 17](#_Toc305588408)

[Install SQL Server 2008 R2 SP1/SQL Server 2008 R2/2008 SP1 18](#_Toc305588409)

[Install Prerequisites for MQSeries Agent 19](#_Toc305588410)

[Install SQL Server 2005 Notification Services 20](#_Toc305588411)

[Install Windows SharePoint Services 21](#_Toc305588412)

[Disable the Shared Memory Protocol 21](#_Toc305588413)

[Join the Local Administrators Group 22](#_Toc305588414)

[Configure the Application Event Log 22](#_Toc305588415)

[Installing and Configuring BizTalk Server 22](#_Toc305588416)

[Verify Your Installation 24](#_Toc305588417)

[Configure BizTalk Server 24](#_Toc305588418)

[Enable TCP/IP and Named Pipes 25](#_Toc305588419)

[Enable DTC on the Local Host Server 26](#_Toc305588420)

[Uninstalling BizTalk Server 27](#_Toc305588421)

[Uninstall BizTalk Runtime Components 27](#_Toc305588422)

[Uninstall Enterprise Single Sign-On 27](#_Toc305588423)

[Remove All Remaining Components 28](#_Toc305588424)

[Uninstallation Complete 30](#_Toc305588425)

[Appendix A: Installing Windows SharePoint Services 30](#_Toc305588426)

[Considerations for Installing Windows SharePoint Services 30](#_Toc305588427)

[Install SharePoint Foundation 2010 31](#_Toc305588428)

[Install Windows SharePoint Services 3.0 SP2 31](#_Toc305588429)

[Configure Windows SharePoint Services 32](#_Toc305588430)

[Extend the Default Web Site as a Virtual Server 33](#_Toc305588431)

[Appendix B: Silent Installation 34](#_Toc305588432)

[Appendix C: Redistributable CAB Files 37](#_Toc305588433)

[Appendix D: Customer Experience Improvement Program in BizTalk Server 2010 39](#_Toc305588434)

[Customer Experience Improvement Program 39](#_Toc305588435)

# Installing BizTalk Server 2010 on Windows Server 2008 R2 and 2008

Documentation Feedback and Updates

Microsoft values your feedback. To send feedback and comments about this guide to the documentation team, [click here](mailto:btsdf@microsoft.com?subject=%20Installing%20BizTalk%20Server%202010%20on%20Windows%20Server%202008/R2).

## Introduction

This document describes the process for installing and configuring Microsoft® BizTalk® Server on a single computer running Windows Server® 2008 R2 and Windows Server® 2008.

We recommend that you read this entire document before beginning your installation. This is because BizTalk Server connects many disparate components both internal and external to your enterprise so information can flow smoothly and securely in many directions. While even the most basic single-server deployment relies on many variables, most real-world deployment scenarios extend much farther to include multiple servers and eventually clusters of both physical and virtual computers.

No two deployments of BizTalk Server are the same. Before you begin the installation process, gather information on the needs of your enterprise, and discuss the scope of your deployment with the IT Professionals, System Administrators, and Developers who will use BizTalk Server. By studying this Installation Guide and carefully analyzing the specific needs of your enterprise, you will eventually create your own deployment roadmap.

For information about installing BizTalk Server 2010 on multiple computers, see [Installing BizTalk Server 2010 and BAM in a Multi-Computer Environment](http://go.microsoft.com/fwlink/?LinkID=191321) (http://go.microsoft.com/fwlink/?LinkID=191321).

You can also download and install the [BizTalk Server Best Practices Analyzer](http://go.microsoft.com/fwlink/?LinkID=196491) (http://go.microsoft.com/fwlink/?LinkID=196491). The Best Practices Analyzer (BPA) examines a BizTalk Server deployment and generates a list of best practices issues it discovers. BPA performs configuration-level verification, by reading and reporting only, and uses the gathered data to determine whether best practices are being followed.

### How to Use this Document

This guide is divided into the following four sections:

Introduction gives an overview of the installation process and tells what information you’ll need during the installation process. The section also lists important considerations regarding Windows® and SQL Server®.

Preparing your computer for installation walks you through installing and configuring all prerequisite software, and setting necessary permissions.

Installing and Configuring BizTalk Server walks you through installing and configuring BizTalk Server. The section includes procedures for determining whether your installation was successful.

Appendices

 A. Installing Windows SharePoint Services walks you through this process (only necessary if you will use the Windows SharePoint® Services Adapter).

 B. Silent Installation lists commands and options for an unattended installation.

 C. CAB Files links to the redistributable CAB files containing BizTalk Server prerequisites.

 D. Customer Experience Improvement Program in BizTalk Server 2010 provides information about providing feedback to Microsoft about BizTalk Server 2010.

### Checklist: Planning Your Installation

Below is a high-level glimpse of the installation process. Installation on a single computer usually takes 4-6 hours. Note that each of these steps must be carried out in the order shown, and that each step contains many variables relevant to your enterprise. All of these issues will be addressed in later sections of this guide.

Preparing your computer for installation

 Install any critical updates for Windows

 Enable Internet Information Services (IIS) 7.5/7.0

 Install Microsoft Office Excel 2010/2007

 Install Visual Studio® 2010

 Install SQL Server 2008 R2 SP1, SQL Server 2008 R2, or SQL Server 2008 SP1

 Install SQL Server 2005 Notification Services (required only for BAM Alerts)

 Install prerequisites for MQSeries Agent (required only for MQSeries Agent)

 Install .Net Framework 4 and 3.5 SP1

 Install SharePoint Foundation 2010 or Windows SharePoint Services 3.0 SP2

Note

SharePoint Foundation 2010 is the new version of Windows SharePoint Services.

 Configure Windows SharePoint Services\*

 Extend the Default Web Site as a Virtual server\*

 Disable shared Memory Protocol

 Join the local Administrators group

 Configure the Application Event Log

\*Only necessary if you are using the Windows SharePoint Services Adapter Web Service.

Installing and configuring BizTalk Server

 Install BizTalk Server 2010

 Verify your installation

 Configure BizTalk Server

 Enable TCP/IP and named pipes in the SQL Server Configuration Manager

 Enable Microsoft Distributed Transaction Coordinator (MS DTC) on the Local Host Server (LHS)

### Choosing your BizTalk Server Features and Components

Review this list of features and components before beginning your installation, and decide which ones you want to install. Items are listed here in the same order that they appear in the Setup program feature tree.

Documentation Core documentation, tutorials, UI reference (F1 Help), programmer’s reference, and usage instructions for the SDK samples and utilities.

Server Runtime The essential runtime services for BizTalk Server.

BizTalk EDI/AS2 Runtime Runtime services providing native support for Electronic Data Interchange (EDI) data exchange and Applicability Statement 2 (AS2) data transport messaging functionality.

Windows Communication Foundation (WCF) Adapter Runtime Adapters enabling BizTalk Server to communicate with WCF-based applications.

Portal Components Also known as Business Activity Monitoring (BAM), these are a set of services enabling users to communicate and collaborate, and also to configure and monitor business processes and workflows.

Administrative Tools Software necessary to administer BizTalk Server on both the local computer and a remote server.

Windows Communication Foundation (WCF) Administration Tools Administration services for WCF components.

Developer Tools and SDK Samples and utilities that enable the rapid creation of BizTalk Server 2010 solutions. This includes SDK samples and supporting documentation, BizTalk Explorer, schema and map designers, and Visual Studio project templates.

Important

You must install this component if you plan to do any development work. The Visual Studio extensions used by BizTalk Server will not work without the Developer Tools and SDK component installed.

Additional Software The following components enable a more flexible BizTalk deployment:

 Enterprise Single Sign-On (SSO) Administration Module: The interface for managing SSO Affiliate Applications and their mappings.

 Enterprise Single Sign-On Master Secret Server: The SSO server that stores the master secret. All other SSO servers in the system get the master secret from this server. The Master Secret Server is required in a BizTalk Server environment.

 Business Rules Components: Used for composing policies to be consumed by the Business Rules Engine.

 MQSeries Agent: Provides communication between the BizTalk Adapter for MQSeries and MQSeries Server for Windows.

 Windows SharePoint Services Adapter Web Service: Allows the Windows SharePoint Services Adapter to process incoming and outgoing documents through Windows SharePoint Services.

 BAM Alert Provider for SQL Notification Services: Allows BAM Alerts.

 BAM Client: Client-side software enabling business users to work with BAM.

 BAM Eventing: Interceptors for Windows Workflow Foundation and Windows Communication Foundation. Also includes the BAM Event API, which sends events to the BAM database from custom applications.

 Project Build Component: A tool enabling you to build BizTalk Server solutions without using Visual Studio.

### Feature Dependency Matrix

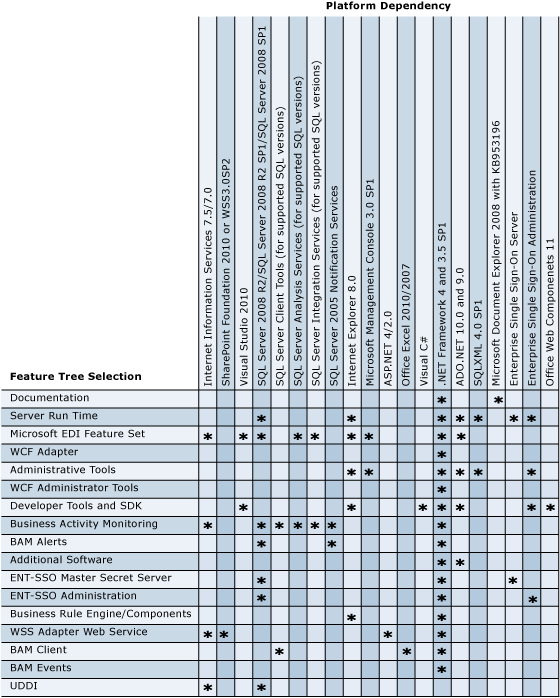
The following table indicates which software you must install before installing BizTalk Server, based on the BizTalk Server features you plan to install.

Note

 Microsoft .NET Framework 4 and .Net Framework 3.5 with Service Pack 1 (SP1) are included as part of the BizTalk Server 2010 setup process.

 Microsoft Document Explorer 2008 and Enterprise Single Sign-On can be installed from the BizTalk Server 2010 product DVD.

 Office Web Components 11 can be installed from [Appendix C: Redistributable CAB Files](#z1).



### Hardware Requirements

The following table shows the minimum hardware requirements for your BizTalk Server computer. In a production environment, the volume of traffic may dictate greater hardware requirements for your servers.

|  |  |
| --- | --- |
| Component | Minimum Requirement |
| Computer and processor | A computer with an Intel Pentium-compatible CPU that is:  **** 1 GHz or higher for single processors  **** 900 MHz or higher for double processors  **** 700 MHz or higher for quad processors  Hyper-threading and dual-core processors are supported.  The 64-bit versions of BizTalk Server require a 64-bit operating system running on an x64-based system. Computers based on CPUs that are compatible with the AMD64 (x86-64) and Extended Memory 64-bit Technology (EM64T) processor architecture are considered x64-based systems.  BizTalk Server is not supported on Itanium-based systems. |
| Memory | 2 GB of RAM |
| Hard disk | 10 GB of available hard disk space for a complete installation including the operating system and all prerequisite software. The hard disk must be NTFS formatted. |
| Drive | CD-ROM or DVD-ROM drive |
| Display | Windows Server 2008-compatible VGA or higher-resolution monitor set to 1024 x 768 pixels or greater resolution |
| Other | Network adapter card, and Microsoft mouse or compatible pointing device |

### Software Requirements

This page lists the software required for running BizTalk Server. You’ll be guided through installation steps for all of these prerequisites in a later section.

Microsoft Windows Can be either Windows 7, Windows Server 2008 R2, Windows Server 2008 R2 SP1, Windows Server 2008 SP2, Windows Vista® with Service Pack 2 (SP2).

Internet Information Services (IIS) Version 7.5 and 7.0 is supported. Provides a scalable Web application infrastructure.

Required for: EDI, BAM, WSS Adapter, and UDDI.

Windows SharePoint Services A collection of services for Windows Server which you can use for sharing and collaborating. Supported versions: SharePoint Services 2010, SharePoint Foundation 2010, WSS 3.0 with Service Pack 2 (SP2), and Microsoft Office SharePoint Server 2007 Service Pack 1 (SP1) (MOSS).

Required for: WSS Adapter.

Microsoft Office Excel 2010 or 2007 Business Activity Monitoring (BAM) uses an Excel workbook to display a real-time view of business processes.

If you are using Microsoft Office Excel 2010, you must install Excel 2010 hotfix package – Knowledge Base article [2345338](http://go.microsoft.com/fwlink/?LinkId=201992) (Description of the Excel 2010 hotfix package (excelc-x-none.msp, excel-x-none.msp): August 31, 2010).

Required for: BAM.

Note

BizTalk Server 2010 supports only 32-bit version of Microsoft Office 2010.

Microsoft .NET Framework 4 and .Net Framework 3.5 with Service Pack 1 (SP1) The .NET Framework 4 works side by side with older Framework versions. Applications that are based on earlier versions of the Framework will continue to run on the version targeted by default.

The Microsoft .NET Framework 3.5 SP1 (formerly WinFX), is the new managed code programming model for Windows. It combines .NET Framework 2.0 with four new technologies: Windows Presentation Foundation (WPF), Windows Communication Foundation (WCF), Windows Workflow Foundation (WF), and Windows CardSpace (WCS, formerly “InfoCard”).

Required for: All BizTalk Server managed components.

Microsoft Visual Studio 2010 Provides a development environment for building applications that target any device and integrate with any platform. Ultimate Edition is recommended, but Premium and Professional are also supported.

Required for: BizTalk Server Developer Tools and SDK component.

SQL Server 2008 R2 SP1/SQL Server 2008 R2/2008 SP1 A relational database server for processing high volumes of data. For optimal performance, we recommend the Enterprise Edition of SQL Server. In order to fully use the BizTalk Server 2010 SDK, or deploy BizTalk Server applications from a Visual Studio development environment, you must also install the SQL Server Development Tools.

Important

 BAM real-time aggregation (RTA) is not supported in the Standard Edition of SQL Server. In order to use BAM RTA, you must install SQL Server Enterprise Edition.

 Using SQL Server Express Edition in a production environment is not recommended. The Express edition does not include certain features needed by BizTalk Server.

Required for: BizTalk Server Runtime, EDI, and BAM.

SQL Server 2005 Notification Services Enables the use of BAM Alerts. Note that this SQL Server 2005 feature is not included in SQL Server 2008 R2 SP1/SQL Server 2008 R2/2008 SP1, and must be downloaded separately.

Required for: BAM Alerts.

SQLXML 4.0 with Service Pack 1 Enables XML support for your SQL Server database and allows developers to bridge the gap between XML and relational data. You can create an XML view of your existing relational data and work with it as if it were an XML file. To install SQLXML 4.0 SP1, see [Microsoft SQL Server 2008 Feature Pack](http://go.microsoft.com/fwlink/?LinkID=189325) (http://go.microsoft.com/fwlink/?LinkID=189325).

Required for: BizTalk Server Runtime, Administrative Tools, and BAM.

### Considerations When Installing BizTalk Server 2010

You should understand the following before beginning your installation:

Account names You should use the default account names whenever possible. The BizTalk Server setup program automatically configures installed components to use the default accounts. While using the default names simplifies setup and configuration, it is not always possible. For example, there may be multiple BizTalk Server groups within an Active Domain forest. In this situation the account names must be modified to avoid conflicts. If you must change the names, note that BizTalk Server supports only <NetBIOS domain name>\<user> name formats for service accounts and Windows groups.

Account names with BAM Management Web Service BizTalk Server does not support use of either built-in accounts or accounts without passwords for the BAM Management Web Service User. This is because the web service accesses the BizTalk database, and such accounts may represent a security threat.

Configuring BizTalk Server with such accounts may appear to succeed, but the BAM Management Web Service will fail.

Note that use of such accounts for the BAM Application pool is supported.

BizTalk Assembly Viewer Use of the BizTalk Assembly viewer is not supported on a 64-bit platform.

Install and Uninstall Uninstalling BizTalk Server is fully supported. However it requires manually deleting a number of databases which can be complicated and time consuming. If you are installing BizTalk Server as a developer or evaluator, consider installing on a virtual computer. This way, if you need to reinstall, you can easily roll back to a preset checkpoint without having to go through the uninstall process.

32-bit and 64-bit computers There are relatively few differences between installing BizTalk Server on 32-bit editions of Windows compared to installation on 64-bit editions of Windows. This document covers both 32-bit and 64-bit installations. Differences between them are noted in the instructions to follow.

Workgroups Installing and configuring BizTalk Server in the workgroup environment on a single computer is supported. SQL Server and BizTalk Server features and components are installed and configured on the same computer.

Terminal Server Installing BizTalk Server using Terminal Server running in application mode is not supported. For more information, see the support article at <http://go.microsoft.com/fwlink/?LinkId=88092>.

Bam Portal If the BAM portal is configured on a website used by applications that are running .Net Framework 2.0 then you must host the BAM portal on a new website. To add a new website see [Create a Web Site (IIS 7)](http://go.microsoft.com/fwlink/?LinkID=196470) (http://go.microsoft.com/fwlink/?LinkID=196470). After creating the new website, do these steps:

1. Open BizTalk Server 2010 Configuration.

2. Configure the BAM portal by selecting the new website from the BAM Portal Web Site list.

## Preparing Your Computer for Installation

In this section you’ll prepare your environment by installing and configuring all software prerequisites, and then creating accounts and setting permissions.

Important

You must perform these procedures in the order listed.

### Install Critical Windows Updates

Before installing BizTalk Server or its prerequisites, make sure you have installed the latest critical Windows updates from Microsoft.

To install Windows updates

|  |
| --- |
| 1. Click Start, point to All Programs, and then click Windows Update.  2. Follow the directions on the Windows Update site.  3. If prompted, restart your computer. |

### Enable Internet Information Services

Microsoft Internet Information Services (IIS) provides a Web application infrastructure for many BizTalk Server features. BizTalk Server requires IIS for the following features:

 HTTP adapter

 SOAP adapter

 Windows SharePoint Services adapter

 Secure Sockets Layer (SSL) encryption

 BAM Portal

To enable Internet Information Services 7.5

|  |
| --- |
| 1. Click Start, point to Administrative Tools and then click Server Manager.  2. In Roles Summary, click Add Roles.  3. On the Before You Begin screen, click Next.  4. On the Select Server Roles screen, click Web Server (IIS).  5. If prompted, click Add Required Features, and then click Next.  6. Review the information on the Web Server (IIS) screen, and then click Next.  7. On the Select Roles Services screen, in addition to the default values, select Application Development, and then click Add Required Features.  8. Under Security, select Basic Authentication and Windows Authentication.  9. Under Management Tools, select IIS 6 Management Compatibility, and then click Next.  10. Review the information on the Confirm Installation Selections screen, and then click Install.  11. On the Installation Results screen, click Close. |

Important

The .NET Framework 4 can be installed side-by-side with previous versions of the .NET Framework on a single computer. If IIS was previously enabled on the computer, the setup process for the .NET Framework automatically registers ASP.NET 4 with IIS. However, if you install the .NET Framework 4 before you enable IIS, you must run the ASP.NET IIS Registration tool in order to register the .NET Framework with IIS and create application pools that use the .NET Framework 4. To manually register ASP.NET 4 with IIS, at the command prompt, type the following command and press Enter: %windir%\Microsoft.NET\Framework\v4.0.30319\aspnet\_regiis.exe /i.

After registering ASP.NET 4, you must ensure that the restriction status of ASP.Net v4.0.30319 is set to Allowed. To check the registration status, follow these steps:

1. Open IIS Manager. In Features View, double-click ISAPI and CGI Restrictions.

2. The restriction status of ASP.Net v4.0.30319 should be set to Allowed. You can change the restriction status by selecting the restriction and clicking Allow or Deny in the Actions pane

3. Click Ok

### Install Microsoft Office Excel 2010 or 2007

Microsoft Office Excel is required for using the Business Activity Monitoring (BAM) feature in BizTalk Server. You use the BAM Office Excel Workbook to define the business processes you want to monitor. You also use the BAM Excel Workbook to define the way in which business users see the data collected by BAM.

Note

BizTalk Server 2010 supports only 32-bit version of Microsoft Office 2010.

The following procedure installs only Office Excel. You can install additional Microsoft Office system applications and tools if you wish, but they are not necessary to complete the installation of BizTalk Server.

Note

To successfully load BAM.xla into Excel, install the Visual Basic for Applications option under Office Shared Features. Otherwise, you may get the error “This workbook has lost its VBA project, ActiveX controls and any other programmability-related features.”

To install Microsoft Office Excel

|  |
| --- |
| 1. Insert the Microsoft Office installation disk into the DVD-ROM drive.  2. When you reach the Type of Installation screen, select Custom Install, and then click Next.  3. On the Custom Setup screen, ensure that Excel is selected, and then click Next.  4. Click Install.  5. On the Setup Completed screen, click Finish. |

### Install Visual Studio 2010

The BizTalk Server development tools are based on Visual Studio 2010. Therefore, at a minimum, you must have the Microsoft Visual C#® .NET portion of Visual Studio 2010 installed on your computer before installing the BizTalk Server Developer Tools and SDK component.

Visual Studio 2010 is not required if you are installing BizTalk Server on a production computer (runtime only), on which no application development or debugging will occur.

The BizTalk Server runtime components require .Net Framework 4 and .NET Framework 3.5 SP1. In addition, the .NET Framework 3.0 is required if the Windows Communication Foundation (WCF) adapter or WCF Interceptor is installed.

Note

If you install Visual Studio and BizTalk Server, and then upgrade to Visual Studio Team Explorer, it may be necessary to repair your BizTalk Server installation by using Control Panel (View by: Large/Small icons) - Programs and Features.

To install Visual Studio 2010

|  |
| --- |
| 1. Insert the Visual Studio 2010 installation disk into the DVD-ROM drive.  2. Click Install Visual Studio 2010.  3. After the installation loads, click Next.  4. On the Start page, accept the license agreement, type your Product Key and any other necessary information, and then click Next.  5. On the Options page, select Custom, and then click Next.  6. Under Select features to install, clear all features except Visual C#, and then click Install.  Important  Your version of Visual Studio may include Microsoft SQL Server Express as an optional feature. Do not install this feature, as it will cause BizTalk Server setup to fail.  7. On the Finish page, click Finish.  8. On the Visual Studio Setup screen, click Exit. |

### Install SQL Server 2008 R2 SP1/SQL Server 2008 R2/2008 SP1

BizTalk Server provides the capability to specify a business process and also a mechanism by which the applications used in that business process can communicate with each other. SQL Server is the main repository for this communication mechanism. You must install SQL Server 2008 R2/2008 SP1 (Enterprise Edition is recommended).

To install SQL Server 2008 R2

|  |
| --- |
| 1. Insert the SQL Server 2008 R2 installation disk into the DVD-ROM drive. The setup program will begin automatically. If prompted for automatic installation of prerequisite software, click OK.  2. On the SQL Server Installation Center, click Installation.  3. Click New Installation or Add Features to an Existing Installation.  4. Review the information on the Setup Support Rules screen, and then click OK.  5. On the Product Key screen, enter your product key and click Next.  6. On the License Terms screen, select I accept the license terms, and then click Next.  7. On the Setup Support Files screen, click Install.  8. On the Feature Selection screen, select the following features, and then click Next.   Database Engine Services   SQL Server Replication   Full-Text Search   Analysis Services   Reporting Services   Shared Features   Business Intelligence Development Studio   Client Tools Connectivity   Integration Services   Management Tools - Basic   Management Tools - Complete  9. On the Instance Configuration screen, select Default instance, and then click Next.  10. Review the information on the Disk Space Requirements screen, and then click Next.  11. On the Server Configuration screen, click Use the same account for all SQL Server instances, enter a local account or domain account and password, and then click Next.  12. On the Database Engine Configuration screen, select Windows authentication mode, click Add Current User, and then click Next.  13. On the Analysis Services Configuration screen, click Add Current User, and then click Next.  14. On the Reporting Services Configuration screen, select Install the native mode default configuration, and then click Next.  15. On the Error and Usage Reporting screen, leave the default values, and then click Next.  16. On the Installation Rules screen, review the information and resolve any issues, and then click Next.  17. On the Ready to Install screen, review the information, and then click Install.  18. On the Installation Progress screen, after setup has finished, click Next.  19. On the Complete screen, click Close. |

### Install Prerequisites for MQSeries Agent

If you plan to use the MQSeries Agent, you will need to download the following:

 [.Net Framework 4](http://go.microsoft.com/fwlink/?LinkID=189318) (http://go.microsoft.com/fwlink/?LinkID=189318) and [.Net Framework 3.5 SP1](http://go.microsoft.com/fwlink/?linkid=160478) (http://go.microsoft.com/fwlink/?linkid=160478).

You will also need to download one of the following:

 IBM WebSphere MQ 5.3 with CSD 10 (or later), or

 IBM WebSphere MQ 7.0

Caution

IBM WebSphere is not supported by Microsoft, and Microsoft makes no guarantees about the suitability of this program. Use of these programs is entirely at your own risk. For more information about these utilities, including download instructions, see the IBM Web site at www.ibm.com.

Finally, you must run the MQSAgent COM+ Configuration Wizard (MQSConfigWiz.exe) on the computer where MQSAgent is installed prior to using either the MQSeries Adapter or the Windows SharePoint Services Web service.

### Install SQL Server 2005 Notification Services

If you plan to use BAM Alerts in your BizTalk Server project, you must install SQL Notification Services and its prerequisites on your BizTalk Server computer. This SQL Server 2005 feature is not included in SQL Server 2008 R2 SP1/SQL Server 2008 R2/2008 SP1, but you can install it from the Microsoft Download Center.

To install SQL Server 2005 Notification Services

|  |
| --- |
| 1. Click or navigate to the [Feature Pack for Microsoft SQL Server 2005 - December 2008](http://go.microsoft.com/fwlink/?LinkId=154501) (http://go.microsoft.com/fwlink/?LinkId=154501).  2. Depending on your platform, download the appropriate package from the following three components:  Microsoft SQL Server Native Client   X86 Package (sqlncli.msi)   X64 Package (sqlncli\_x64.msi)  Microsoft SQL Server 2005 Management Objects Collection   X86 Package (SQLServer2005\_XMO.msi)   X64 Package (SQLServer2005\_XMO\_x64.msi)  Microsoft SQL Server 2005 Notification Services Client Components   X86 Package (SQLServer2005\_NS.msi)   X64 Package (SQLServer2005\_NS\_x64.msi) |

### Install Windows SharePoint Services

Windows SharePoint Services is a collection of services for Windows Server which enable you to share information, collaborate with other users on documents, and create lists and Web part pages. For information and procedures on installing Windows SharePoint Services, see Appendix A.

Note

You do not need to install WSS if you do not also plan to install the WSS adapter. However, if you are installing WSS, you must do it before continuing with the rest of the BizTalk Server prerequisites.

BizTalk Server 2010 supports these two versions of WSS:

 SharePoint Foundation 2010

 Windows SharePoint Services 3.0 with SP2

Installing and configuring Windows SharePoint Services consists of the following procedures:

 Install Windows SharePoint Services

 Configure Windows SharePoint Services

 Extend the Default Web Site as a virtual server

### Disable the Shared Memory Protocol

Under certain stress conditions (such as clients accessing SQL Server from the same computer), the SQL Server Shared Memory protocol may lower BizTalk Server performance. You can resolve this problem by disabling the use of the Shared Memory network protocol in the SQL Server Client Network Utility.

To disable Shared Memory protocol for SQL Server

|  |
| --- |
| 1. Click Start, point to All Programs, point to Microsoft SQL Server 2008 R2, click Configuration Tools, and then click SQL Server Configuration Manager.  2. In SQL Server Configuration Manager, expand SQL Server Network Configuration, and then click Protocols for MSSQLSERVER.  3. Right-click Shared Memory, and then click Disable.  4. Click SQL Server Services, right-click SQL Server (MSSQLSERVER), and then click Stop. After the service has stopped, right-click SQL Server (MSSQLSERVER) again, and then click Start.  5. Close SQL Server Configuration Manager. |

### Join the Local Administrators Group

You must be an administrator to install and configure BizTalk Server 2010.

To join or add a member to a local group, see [Add a member to a local group](http://go.microsoft.com/fwlink/?LinkID=220023) (http://go.microsoft.com/fwlink/?LinkID=220023).

### Configure the Application Event Log

BizTalk Server setup keeps a record of events in the Application Event Log. Depending on the BizTalk Server features installed, the amount of space required in the log may exceed its limit. If the application event log runs out of space during BizTalk Server setup, the installation will fail.

To prevent this from happening, you can change the settings in the Application Event Log.

To change settings in the Application Event Log

|  |
| --- |
| 1. Click Start, click Control Panel (View by: Large/Small icons), and then double-click Administrative Tools.  2. Click Event Viewer.  3. In the Event Viewer, expand Windows Logs.  4. Right-click Application, and then click Properties. This opens the Log Properties dialog box.   To see how much available space your log has, compare the Log Size field with the Maximum log size field.   To provide more space in the event log, enter a higher number in the Maximum log size field.   To enable overwriting of old events when the log becomes full, select Overwrite events as needed.   To clear the log events, click Clear log.  5. Click OK, to close the Event Viewer. |

## Installing and Configuring BizTalk Server

In this section you’ll install BizTalk Server, confirm that the installation succeeded, and then configure BizTalk Server.

When you installed SQL Server, setup granted your account Database Administrator rights. Since these rights are also required for installing BizTalk Server, you must do one of the following:

 Use the same account you used when you installed SQL Server.

 Make sure the account you’re using now also has Database Administrator rights.

To install BizTalk Server 2010

|  |
| --- |
| 1. Close any programs you have open.  2. Insert the BizTalk Server 2010 installation disk into the DVD-ROM drive.  3. On the Start screen, click Install Microsoft BizTalk Server 2010.  4. On the Customer Information screen, type your user name and organization, enter your product key, and then click Next.  5. On the License Agreement screen, click Yes, I accept the terms of the license agreement, and then click Next.  6. Use the Customer Experience Improvement Program page of the BizTalk Server 2010 Installation Wizard to enable feature usage reporting functionality for BizTalk Server. For more information, see [Customer Experience Improvement Program in BizTalk Server 2010](#z2) section in this guide.  7. On the Component Installation screen, review the available components and select the ones you want to install.  8. Accept the default installation location or click Browse to move to the location where you want to install BizTalk Server 2010, and then click Next.  9. If your computer is missing a prerequisite component such as ADOMD.NET, Setup can install the redistributable prerequisites. You can either:   Select Automatically install the redistributable prerequisites from the web  OR   Select Automatically install the redistributable prerequisites from a CAB file if you have downloaded the CAB file. If you select this, you can then browse to the location of the CAB file and select it.  10. On the Summary screen, verify that the components that you select to install are correct.  11. To enable auto-logon after a system reboot, click Set and provide your logon information. Auto-logon is enabled only for reboots during setup, and is disabled when setup is complete.  12. Click Install to start the installation process.  13. On the Microsoft Update Setup page, click Use the Microsoft Update when I check for updates (recommended).  14. On the Installation Completed screen, clear the Launch BizTalk Server Configuration check box, and then click Finish. |

### Verify Your Installation

You can check to see whether your installation was successful by using either Programs and Features or the Registry.

To verify installation using Programs and Features

|  |
| --- |
| 1. Click Start, click Control Panel (View by: Large/Small icons), and double-click Programs and Features.  2. When the list is fully populated, look for BizTalk Server 2010. If it appears in the list, setup succeeded. |

To verify installation using the Registry

|  |
| --- |
| 1. Open a command prompt.  2. Type regedit and then press Enter.  3. When the Registry opens, browse to HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\BizTalk Server\3.0  4. If files exist in the 3.0 folder, setup succeeded.  5. Close the Registry, and then close the command prompt. |

### Configure BizTalk Server

Use the following procedure to complete a basic configuration of BizTalk Server. For information on customizing your configuration, see Custom Configuration in the BizTalk Server Help.

To configure BizTalk Server 2010 using Basic Configuration

|  |
| --- |
| 1. Click Start, click All Programs, click Microsoft BizTalk Server 2010, right-click BizTalk Server Configuration, and then click Run as Administrator.  2. In the Database field, enter the name of the local computer.  3. In the Service Credential field, type the User name and Password for the account that the BizTalk services will run under.  4. Click Configure.  Note  You may receive a warning if you enter a user name with administrative credentials on this computer. Click OK to continue.  5. On the Summary screen, review the configuration about to be performed, and then click Next.  6. On the Completion screen, click Finish. |

### Enable TCP/IP and Named Pipes

To facilitate transactions between SQL Server and BizTalk Server, you must enable TCP/IP and Named Pipes in SQL Server.

To enable TCP/IP and Named Pipes

|  |
| --- |
| 1. Click Start, click All Programs, click Microsoft SQL Server 2008 R2, click Configuration Tools, and then click SQL Server Configuration Manager.  2. In the left-hand pane, expand SQL Server Network Configuration.  3. Click Protocols for MSSQLSERVER.  4. Verify that both TCP/IP and Named Pipes are enabled. If they are, proceed to Step 5.  If either is not, follow these steps:   Right-click the protocol, and then click Enable.   Repeat to enable the other protocol if necessary.   In the left-hand pane, click SQL Server Services.   In the right-hand pane, right-click SQL Server (MSSQLSERVER), and click Stop.   When the service has stopped, right-click SQL Server (MSSQLSERVER) again, and click Start.  5. The steps listed above stops the NS$BAMAlerts service. You must restart the service  6. Close the Configuration Manager. |

### Enable DTC on the Local Host Server

To facilitate transactions between SQL Server and BizTalk Server, you must enable Microsoft Distributed Transaction Coordinator (MS DTC) on the Local Host Server (LHS).

To enable Distributed Transaction Coordinator (DTC) on the LHS

|  |
| --- |
| 1. Click Start, click Run, type dcomcnfg and then click OK to open Component Services.  2. In the console tree, expand Component Services, expand Computers, expand My Computer, expand Distributed Transaction Coordinator, and then click Local DTC.  3. Right-click Local DTC and click Properties to display the Local DTC Properties dialog box.  4. Click the Security tab.  5. Ensure that each of the following four options is selected, and all others are cleared:   Network DTC Access   Allow Inbound   Allow Outbound   No Authentication Required  6. Click OK to close the Local DTC Properties dialog box. If prompted to restart the MSDTC service, click Yes.  7. Close Component Services.  8. Click Start, point to Administrative Tools, and then click Windows Firewall with Advanced Security.  9. In Windows Firewall with Advanced Security, click Inbound Rules.  10. In the Inbound Rules pane, right-click Distributed Transaction Coordinator \* (as appropriate), and then click Enable Rule.  11. In Windows Firewall with Advanced Security, click Outbound Rules.  12. In the Outbound Rules pane, right-click Distributed Transaction Coordinator \* (as appropriate), and then click Enable Rule.  13. On the Control Panel (View by: Large/Small icons), double-click Administrative Tools.  14. In the right-hand pane, double-click Services.  15. In the right-hand pane of Services (Local), right-click COM+ System Application, click Restart, and wait for the service to restart.  16. Right-click and restart the Distributed Transaction Coordinator service.  17. Right-click and restart the SQL Server (MSSQLSERVER) service.  18. Close Services (Local), and then close Administrative Tools. |

## Uninstalling BizTalk Server

Use the procedures in the following pages to uninstall BizTalk Server 2010.

Important

At this point you have successfully installed BizTalk Server. If you want to uninstall BizTalk Server, use the following procedures. Otherwise, stop here.

Important

The following procedures list numerous jobs, packages, and databases to be deleted. The names listed here are only the default names. In your deployment of BizTalk Server the names may have been changed.

Important

You must perform these actions in the order shown, or uninstallation will not be complete.

### Uninstall BizTalk Runtime Components

To uninstall BizTalk Server 2010 runtime components

|  |
| --- |
| 1. Click Start, point to Control Panel (View by: Large/Small icons), and then click Programs and Features.  2. In the Programs and Features dialog box, click Microsoft BizTalk Server 2010, and then click Uninstall/Change.  3. On the Program Maintenance screen, select Remove, and then click Next.  4. On the Summary screen, review the components to be uninstalled, and then click Uninstall.  5. On the Uninstall Completed screen, click Finish. |

### Uninstall Enterprise Single Sign-On

To uninstall Enterprise SSO services

|  |
| --- |
| 1. Click Start, point to Control Panel (View by: Large/Small icons), and then click Programs and Features.  2. In the Programs and Features dialog box, click Microsoft Enterprise Single Sign-On, and then click Uninstall/Change.  3. On the Program Maintenance screen, select Remove, and then click Next.  4. On the Summary screen, review the components to be uninstalled, and then click Uninstall.  5. On the Uninstall Completed screen, click Finish. |

### Remove All Remaining Components

Remove SQL Server agent jobs

|  |
| --- |
| 1. Click Start, point to All Programs, point to Microsoft SQL Server 2008 R2, and then click SQL Server Management Studio.  2. Click Connect.  3. In Object Explorer, expand SQL Server Agent, and then expand Jobs.  4. Remove the following jobs:   Backup BizTalk Server (BizTalkMgmtDb)   CleanupBTFExpiredEntriesJob\_BizTalkMgmtDb   DTA Purge and Archive (BizTalkDTADb)   MessageBox\_DeadProcesses\_Cleanup\_BizTalkMsgBoxDb   MessageBox\_Message\_Cleanup\_BizTalkMsgBoxDb   MessageBox\_Message\_ManageRefCountLog\_BizTalkMsgBoxDb   Monitor BizTalk Server (BizTalkMgmtDb)   MessageBox\_Parts\_Cleanup\_BizTalkMsgBoxDb   MessageBox\_UpdateStats\_BizTalkMsgBoxDb   Operations\_OperateOnInstances\_OnMaster\_BizTalkMsgBoxDb   PurgeSubscriptionsJob\_BizTalkMsgBoxDb   Rules\_Database\_Cleanup\_BizTalkRuleEngineDb   TrackedMessages\_Copy\_BizTalkMsgBoxDb  Note  If you deployed BAM, you may also need to remove the job named bam\_<Cube Name>\_<View Name>. |

Remove SQL Server Integration Services Packages

|  |
| --- |
| 1. Click Start, point to All Programs, point to Microsoft SQL Server 2008 R2, and then click SQL Server Management Studio.  2. Click Connect.  3. In Object Explorer, click Connect and select Integration Services, and then click Integration Services.  4. Expand Stored Packages and expand MSDB.  5. Remove the packages with the following prefixes:   BAM\_AN\_<Cube Name>   BAM\_DM\_<View Name> |

Remove BizTalk Server 2010 databases

|  |
| --- |
| 1. Click Start, point to All Programs, point to Microsoft SQL Server 2008 R2, and then click SQL Server Management Studio.  2. In Object Explorer, expand Databases.  3. Remove the following databases:   BAMArchive   BAMPrimaryImport   BAMStarSchema   BizTalkDTADb   BizTalkMgmtDb   BizTalkMsgBoxDb   BizTalkRuleEngineDb   SSODB |

Remove BAM Alerts Notification Services instance

|  |
| --- |
| 1. Click Start, point to All Programs, point to Microsoft SQL Server 2005, and then click Configuration Tools.  2. On the Configuration Tools menu, click Notification Services Command Prompt.  3. Type the following command to disable the instance: nscontrol disable -name BAMAlerts  4. Type the following command to stop the instance: net stop NS$BAMAlerts  5. Type the following command to unregister the instance: nscontrol unregister -name BAMAlerts  Note  The BAM Notification name is generated as NS$<Prefix for Alerts Database Name> where <Prefix for Alerts Database Name> is what you specified on the BAM Alerts configuration page. The default name is BAMAlerts.  6. Type the following command to delete the instance: nscontrol delete -name BAMAlerts –server %computername% -force |

### Uninstallation Complete

At this point you have fully uninstalled BizTalk Server 2010.

## Appendix A: Installing Windows SharePoint Services

Use the information and procedures in this section to install and configure Windows SharePoint Services.

### Considerations for Installing Windows SharePoint Services

BizTalk Server requires Windows SharePoint Services (WSS) to support the Windows SharePoint Services adapter Web service. If you do not intend to install this feature, you do not need to install WSS.

BizTalk Server 2010 supports SharePoint Foundation 2010 and Windows SharePoint Services 3.0 with SP2, or Microsoft Office SharePoint Server 2007 (MOSS). Not all BizTalk Server features are compatible with all versions of Windows SharePoint Services.

Windows SharePoint Services support in BizTalk Server 2010 is summarized in the following table:

|  |  |  |
| --- | --- | --- |
| Windows SharePoint Services version | WSS adapter | BAM portal |
| SharePoint Foundation 2010 | 64-bit only | 32-bit only. |
| Windows SharePoint Services 3.0with SP2 and MOSS require IIS and ASP.NET to run in 64-bit mode on 64-bit Windows editions. | 32-bit on Windows 32-bit x86 editions. The WSS adapter is supported in 32-bit (WOW64) or native 64-bit modes on 64-bit Windows editions | Supported in 32-bit mode only. If WSS is running in 64 bit mode then BAM portal can’t run side by side on the same web site. |

Before you install Windows SharePoint Services, consider the following:

 Although the Windows SharePoint Services adapter supports SharePoint Foundation 2010 with SharePoint Server 2010, WSS 3.0 with SP2, and MOSS 2007, the adapter can only be configured to use one version at a time.

 On 64-bit Windows, both IIS and ASP.NET must be configured to run in 64-bit mode before installing WSS 3.0 SP2.

 The Windows SharePoint Services installation type must be Server Farm. This is true even if you are performing a single-server installation of BizTalk Server 2010. The Server Farm type of installation allows you to configure WSS to use the databases you specify.

For more information about the versions of Windows SharePoint Services that are supported for use with BizTalk Server 2010 see the BizTalk Server online Help topic Windows SharePoint Services Support in BizTalk Server 2010.

### Install SharePoint Foundation 2010

SharePoint Foundation 2010 requires Microsoft .NET Framework 4, which must be installed before beginning installation of SharePoint Foundation 2010. The .NET Framework is available for download at <http://go.microsoft.com/fwlink/?LinkID=189318>. For more information about how to install and configure SharePoint Foundation 2010, see [Install SharePoint Foundation 2010 on the farm servers](http://go.microsoft.com/fwlink/?LinkID=189322) (http://go.microsoft.com/fwlink/?LinkID=189322).

### Install Windows SharePoint Services 3.0 SP2

BizTalk Server 2010 requires Microsoft .NET Framework 3.5 SP1, which must be installed before beginning installation of Windows SharePoint Services 3.0 SP2. The .NET Framework is available for download at <http://go.microsoft.com/fwlink/?linkid=160478>

To install Windows SharePoint Services 3.0 SP2

|  |
| --- |
| 1. Locate the package you just downloaded (SharePoint.exe), then double-click the package to start setup.  2. On the End User License Agreement screen, select I accept the terms in the License Agreement, and then click Continue.  3. Under Choose the installation you want, click the Advanced button.  4. On the Server Type tab, select Web Front End, and then click Install Now.  5. When installation is completed, clear the box for Run the SharePoint products and technologies Configuration Wizard, then click Close. You will not configure anything at this time. |

### Configure Windows SharePoint Services

Use the following procedure to finish configuring Windows SharePoint Services.

Note

This procedure (and the configuration procedures that follow) suggests generic names for objects such as the application pool and Windows SharePoint Services database. You are free to substitute names to suit your organizational requirements and preferences, however, be sure to use the correct names in place of the generic names in the configuration procedures following this one.

To configure SharePoint Foundation 2010

|  |
| --- |
|  To configure SharePoint Foundation 2010, see [Create and configure the farm](http://go.microsoft.com/fwlink/?LinkID=189322) (http://go.microsoft.com/fwlink/?LinkID=189322). |

To configure Windows SharePoint Services 3.0 SP2

|  |
| --- |
| 1. Click Start, point to Administrative Tools, and then click SharePoint 3.0 Central Administration.  Note  Because you did not finish the configuration earlier, you are presented with the configuration screens for Windows SharePoint Services.  2. The SharePoint Products and Technologies Configuration Wizard opens. On the Welcome to SharePoint Products and Technologies screen, click Next. If prompted to start services, click Yes.  3. On the Connect to a server farm screen, select No, I want to create a new server farm, and then click Next.  4. On the Specify Configuration and Database Settings screen, enter the database server, and leave the default database name. Enter a valid username and password, and then click Next.  5. On the Configure SharePoint Central Administration Web Application screen, leave the default values, and then click Next.  6. Review the information on the Completing the SharePoint Products and Technologies Configuration Wizard screen, and then click Next.  7. On the Configuration Successful screen, click Finish. |

### Extend the Default Web Site as a Virtual Server

Microsoft Windows SharePoint Services uses virtual servers to host Web sites on your server. The process of applying Windows SharePoint Services to a virtual server is called extending. You must extend a virtual server with Windows SharePoint Services before you can create a Web site based on Windows SharePoint Services. In the following procedure you extend the Default Web Site as a Windows SharePoint Services virtual server.

Before proceeding you need to create a service account that Windows SharePoint Services will use when accessing the SharePoint database.

To extend the Default Web Site as a Virtual Server using SharePoint Foundation 2010

|  |
| --- |
|  To extend a web application on a system that is running Microsoft SharePoint Foundation 2010, see [Extend a Web application (SharePoint Foundation 2010)](http://go.microsoft.com/fwlink/?LinkID=189320) (http://go.microsoft.com/fwlink/?LinkID=189320). |

To extend the Default Web Site as a Virtual Server using WSS 3.0 SP2

|  |
| --- |
| 1. Click Start, point to Administrative Tools, and then click Microsoft SharePoint Services 3.0 Central Administration.  2. Navigate to the Application Management page.  3. Under SharePoint Web Application Management, click Create or Extend Web Application.  4. On the Create or Extend Web Application page, click Extend an existing Web application.  5. On the Extend Web Application to Another IIS Web Site page, under Web Application, select Change Web Application.  6. On the Select Web Application page, select SharePoint Central Administration v3.  7. In the IIS Web Site section, click Use an existing IIS Web site.  8. From the drop-down list, select Default Web Site.  9. Leave the rest of the default values, and then click OK. |

## Appendix B: Silent Installation

BizTalk Server 2010 enables automated electronic software distribution, also known as silent installation. You use silent installation to install BizTalk Server 2010 in an automated way on computers that have the same configurations. Silent installation lets system administrators who want to install BizTalk Server 2010 on remote computers do so without user intervention. With a silent installation, a user does not have to monitor the installation and provide input.

To perform a silent installation, use the command-line options provided to suppress all interaction and to provide parameters for all options.

When you perform a silent installation, the installation program does not display messages. Instead, a log file captures the installation information that includes whether the installation was successful. You can then review the log file and determine the results of the installation.

To perform a BizTalk Server 2010 silent installation

|  |
| --- |
| 1. Click Start, point to All Programs, point to Accessories, and then click Command Prompt.  2. To start the silent installation, at the command prompt, type setup.exe /<command name> <options>, and then press ENTER.  3. Check the installation status in the log file. |

|  |  |  |
| --- | --- | --- |
| Command name | Option | Description |
| /HELP, or /?, or /H |  | Provides help and quick reference. |
| /QUIET |  | Suppresses UI during setup – all dialog boxes, errors, or prompts requiring user input. All messages are entered into the setup log file.  Note  The Quiet flag cannot be specified for an upgrade, because upgrade requires user confirmation of selected options. |
| /CABPATH | <CAB file location> | Indicates the location of the redistributable CAB file. |
| /S | <Configuration XML file> | Performs a silent installation of features found in the specified configuration file.  Note  To install all features, specify ALL for the InstalledFeature parameter of the configuration XML file. |
| /PASSIVE |  | Performs a passive installation. The setup program only displays the progress bar. |
| /NORESTART |  | Suppresses restart prompts and automatic restarts at the end of the installation. |
| /FORCERESTART |  | Always forces a restart after the installation is complete. |
| /PROMPTRESTART |  | Prompts the user before restarting. |
| /X or /UNINSTALL |  | Uninstalls BizTalk Server 2010. |
| /L | <Logfile> [i][w][e][a][r][u][c][m][p][v][\*] | Writes logging information to a log file to the specified path. Always uses verbose Windows Installer logging and it appends to an existing file.  The following flags indicate which information to log:  i - Status messages  w - Nonfatal warnings  e - All error messages  a - Startup of actions  r - Action-specific records  u - User requests  c - Initial user interface parameters  m - Out-of-memory  p - Terminal properties  v – Verbose output  \* - All |
| /IGNOREDEPENDENCIES |  | Bypasses the checks for downloadable prerequisites. |
| /INSTALLDIR <install path> | <program files folder> | Specifies the full path to product install location. |
| /COMPANYNAME | <company name> | Sets the company or organization name. |
| /USERNAME | <user name> | Sets the user name. |
| /ADDLOCAL ALL |  | Installs all features. For more information about ADDLOCAL command, see [Listing of Values for the ADDLOCAL Command](http://go.microsoft.com/fwlink/?LinkID=189319) (http://go.microsoft.com/fwlink/?LinkID=189319). |
| /REMOVE ALL |  | Removes all features. |
| /REPAIR ALL |  | Repairs all features. |
| /CEIP |  | Enables Customer Experience Improvement Program (CEIP) in BizTalk Server 2010. |
| /PRODUCT UDDI |  | Installs UDDI |
| msiexec.exe /i [MSIPATH] INSTALLDIR=[INSTALLDIRPATH] DATADIR=[DATADIRPATH] SQLSERVERMACHINENAME=[SQLSERVERNAME] OVERWRITERFIDSTORE=1 INSTALLLEVEL=5 /lvxp RfidServicesInstall.txt /q  For example: msiexec.exe /i "\\ABC\XYZ\RFID\_x86\RfidServices.msi" INSTALLDIR=“C:\Program Files\Microsoft BizTalk RFID\” DATADIR=“C:\Program Files\Microsoft BizTalk RFID\” SQLSERVERMACHINENAME=(local) OVERWRITERFIDSTORE=1 INSTALLLEVEL=5 /lvxp RfidServicesInstall.txt /q |  | Installs Microsoft BizTalk Server RFID 2010 |

## Appendix C: Redistributable CAB Files

BizTalk Server relies on diverse products and technologies to provide essential services and features. This software will be installed on your computer during the installation of BizTalk Server if it is not already present. Setup gives you the option of downloading software prerequisites from the Web or extracting them from CAB files that you download before running setup.

Important

You cannot use CAB files from previous versions of BizTalk Server to install BizTalk Server 2010, including CAB files intended for BizTalk Server 2006. To ensure that you have the correct CAB file, please download the latest version from the links given in the tables below.

Note

You cannot download the CAB files through a Telnet session.

Each CAB file contains localized versions of the following software:·

 Microsoft Office 2003 Web Components (OWC11) Version 4

 Microsoft .NET Framework 4 and 3.5 SP1

 SQLXML 4.0 with SP1

 ADOMD.NET 9.0

 ADOMD.NET 10

CAB Files

|  |  |  |  |
| --- | --- | --- | --- |
| Language | Windows Server 2008 32-bit Edition | Windows Server 2008 64-bit Edition | Windows Server 2008 R2 |
| EN | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x409> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x409> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x409> |
| CN | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x804> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x804> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x804> |
| DE | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x407> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x407> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x407> |
| ES | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x40a> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x40a> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x40a> |
| FR | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x40c> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x40c> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x40c> |
| IT | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x410> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x410> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x410> |
| JA | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x411> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x411> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x411> |
| KO | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x412> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x412> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x412> |
| TW | <http://go.microsoft.com/fwlink/?LinkID=189407&clcid=0x404> | <http://go.microsoft.com/fwlink/?LinkID=189408&clcid=0x404> | <http://go.microsoft.com/fwlink/?LinkID=189409&clcid=0x404> |

## Appendix D: Customer Experience Improvement Program in BizTalk Server 2010

Microsoft introduces the Customer Experience Improvement Program in BizTalk Server 2010. As part of this support in Beta, you are automatically opted-in to provide useful feedback to Microsoft regarding feature usage reporting functionality of BizTalk Server. The data collected from you is anonymous and cannot be used to identify you. Microsoft collects feature usage statistics as part of this program.

By participating in this program, you can help improve the reliability and performance of various features of BizTalk Server. Post BizTalk Server 2010 Beta, you may also choose to opt out of this program. For more information about this program and its privacy policy, see [Microsoft BizTalk Server CEIP Privacy Policy](http://go.microsoft.com/fwlink/?LinkId=188553) (http://go.microsoft.com/fwlink/?LinkId=188553).

### Customer Experience Improvement Program

Use the Customer Experience Improvement Program page of the BizTalk Server 2010 Installation Wizard to enable feature usage reporting functionality for BizTalk Server.

#### Options

On the Customer Experience Improvement Program page, select one of the following options

 Yes, I want to participate in the program (Recommended).

 No, I don’t want to participate in the program.

If you select Yes, users can decide whether they want to report Customer Experience Improvement Program events to Microsoft.