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Introduction

Welcome to eConnect for Microsoft Dynamics™ GP. This documentation explains how to install and administer eConnect. An eConnect installation includes files, tools, and services that allow applications to integrate with Microsoft Dynamics GP. Before you begin installing and using eConnect, take a few moments to review the information presented here.

What’s in this manual

The Microsoft Dynamics GP eConnect Installation and Administration Guide is designed to give you an in-depth understanding of how to install and administer eConnect. Information is divided into the following parts:

- **Part 1, eConnect Basics**, provides an overview of eConnect and the components it supplies to help other applications integrate with Microsoft Dynamics GP.
- **Part 2, Installation**, describes how to install eConnect or the eConnect runtime.
- **Part 3, Administration**, explains how to configure and maintain eConnect.

To learn about creating applications that use eConnect for Microsoft Dynamics GP, refer to the eConnect Programmer’s Guide and Reference document.

Symbols and conventions

To help you use this documentation more effectively, we’ve included the following symbols and conventions within the text to make specific types of information stand out.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Light bulb]</td>
<td>The light bulb symbol indicates helpful tips, shortcuts, and suggestions.</td>
</tr>
<tr>
<td>![Warning]</td>
<td>Warnings indicate situations you should be aware of when completing tasks.</td>
</tr>
</tbody>
</table>

*Margin notes summarize important information.*

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1, eConnect Basics</td>
<td>Bold type indicates a part name.</td>
</tr>
<tr>
<td>Chapter 1, “Overview”</td>
<td>Quotation marks indicate a chapter name.</td>
</tr>
<tr>
<td>Installing eConnect using System.IO;</td>
<td>Italicized type indicates a section name.</td>
</tr>
<tr>
<td>Microsoft Message Queuing (MSMQ)</td>
<td>This font is used to indicate script examples.</td>
</tr>
<tr>
<td>TAB or ALT+M</td>
<td>Acronyms are spelled out the first time they’re used.</td>
</tr>
<tr>
<td>Small capital letters indicate a key or a key sequence.</td>
<td></td>
</tr>
</tbody>
</table>
Product support

Microsoft Dynamics GP technical support can be accessed online or by telephone. Go to www.microsoft.com/Dynamics and click the CustomerSource or PartnerSource link, or call 888-477-7877 (in the US and Canada) or 701-281-0555.
Part 1: eConnect Basics

This portion of the documentation contains introductory information you should know before deploying eConnect for Microsoft Dynamics GP. The following information is discussed:

- **Chapter 1, “eConnect Overview,”** introduces eConnect and the types of integration interfaces and tools it provides.

- **Chapter 2, “eConnect Architecture,”** discusses the underlying components that are part of an eConnect installation.
Chapter 1:  eConnect Overview

eConnect for Microsoft Dynamics GP allows you to integrate your business applications with Microsoft Dynamics GP. The following topics introduce eConnect for Microsoft Dynamics GP:

- What is eConnect?
- What eConnect can do
- Getting started

What is eConnect?

eConnect is a collection of tools, components, and interfaces that allow applications to programmatically exchange data with Microsoft Dynamics GP. The key eConnect components and interfaces include:

- A .NET managed code assembly
- A Microsoft BizTalk® Application Integration Component (AIC)
- Microsoft Message Queuing (MSMQ) services

These eConnect interfaces allow external applications like web storefronts, web services, point-of-sale systems, or legacy applications to integrate with Microsoft Dynamics GP. The external applications can perform actions like creating, updating, retrieving, and deleting back office documents and transactions.

Throughout the documentation, the terms front office and back office are used. The term back office refers to the financial management system, in this case, Microsoft Dynamics GP. The term front office refers to customer relationship management systems, data warehouses, web sites, or other applications that communicate with the back office.

eConnect allows you to leverage the existing transaction-based business logic of Microsoft Dynamics GP. This allows you to focus your time and energy on creating or enhancing custom applications for the front office.

What eConnect can do

eConnect allows you to enhance your applications in the following ways:

1. Add real-time access to Dynamics GP data.
   eConnect provides real-time access to back office data. It offers a way to add up-to-date back office information to existing front office applications like web storefronts or service applications.

2. Share financial management data across applications.
   eConnect allows multiple applications to share financial management data. The eConnect interfaces can support multiple independent applications. Changes to financial data in Dynamics GP are simultaneously available to all applications that use eConnect to access that data in Dynamics GP.

Application developers who use eConnect obtain the following benefits:

1. Reduce development time.
   eConnect has a large number of integration points for Microsoft Dynamics GP. Software developers can quickly add back office integrations to an application. This simplifies the development effort, while providing fast access to Microsoft
Dynamics GP data. eConnect also reduces development time when the business logic contained in the back office is reused by new custom applications.

An eConnect integration also reduces data re-entry. An automated eConnect integration between Microsoft Dynamics GP and a new or existing online storefront, web service, or other data source eliminates the time and cost of manually copying data.

2. **Use existing development tools.**
eConnect allows software developers to select their tool of choice when working with eConnect. Developers can use Microsoft .NET, Microsoft SQL Server stored procedures, BizTalk, or MSMQ.

3. **Leverage industry-standard technologies.**
eConnect includes components for MSMQ and BizTalk Server, which are industry-standard tools that support integration between applications.

4. **Use XML to transfer data.**
eConnect uses XML documents to move data into and out of Microsoft Dynamics GP. The XML documents are a text-based representation of back office data. An XML schema specifies the data that is included in each type of XML document. This allows eConnect to provide back office integration to any application capable of creating or consuming these XML documents.

### Getting started

How you start depends on your role:

#### System administrator
If you are the system administrator, complete the following:

- Review [Chapter 2, “eConnect Architecture”](#) to understand the components that comprise an eConnect installation. This information can help you to understand how eConnect will fit with your existing systems.

- Review [Chapter 3, “Prerequisites”](#) to determine whether your system has all the prerequisites for eConnect. You may need to install some additional software or configure Dynamics GP before installing eConnect.

- Review [Chapter 4, “eConnect Installation”](#) to acquaint yourself with the eConnect installation procedure.

- Review [Chapter 5, “Configuring eConnect Services”](#) to understand the configuration files used to control eConnect’s Windows services and BizTalk adapter. You control the behavior of the services and adapter by changing the values stored in the configuration files.

- Review [Chapter 6, “Maintenance”](#) to learn what you can do to revise, repair, or remove an existing eConnect installation.

#### Software Developer
If you are a developer, complete the following:
• Review Chapter 2, “eConnect Architecture,” to familiarize yourself with eConnect’s components. You need to understand how eConnect’s components work together to meet your integration requirements.

• Discuss the installation procedure with the system administrator to learn what configuration settings were used during the eConnect installation.

• Review the eConnect Programmer’s Guide and Reference document. The document describes eConnect’s tools, application programming interfaces (APIs), and XML schemas. Use the eConnect Programmer’s Guide and Reference to learn how eConnect meets your application integration requirements.
Chapter 2: eConnect Architecture

When using eConnect for Microsoft Dynamics GP, it is helpful to understand its architecture. Architectural information is divided into the following sections:

- Architecture diagram
- Configurations
- Business objects
- eConnect API
- BizTalk
- Transaction Requester

Architecture diagram

eConnect installs a collection of components that work together to provide programmatic access to Microsoft Dynamics GP data. The following diagram illustrates the basic components:

The diagram illustrates eConnect's two key layers and the components each layer contains.
The data access layer contains the eConnect business objects. The business objects are installed on the Microsoft Dynamics GP server.

The eConnect runtime layer contains the components that simplify using the eConnect business objects. The eConnect runtime layer installs on the same computer as the integrating application.

The eConnect runtime includes several components that allow you to access the eConnect business objects.

- The eConnect application programming interfaces (APIs) allow you to programmatically interact with the eConnect business objects using eConnect XML documents. The eConnect API include a .NET and a MSMQ interface.

- The eConnect BizTalk adapter allows you to use BizTalk to configure and manage the integration between your application and Microsoft Dynamics GP.

- The Transaction Requester allows you to publish Microsoft Dynamics GP documents to a queue. You typically use the Transaction Requester with the Outgoing Service to publish specified Microsoft Dynamics GP documents as eConnect XML documents. The Transaction Requester identifies the specific transactions the Outgoing Service needs to publish.

The diagram also shows that your integrating application can bypass the eConnect runtime and use the eConnect business objects directly.

Configurations

There are two common configurations for an eConnect installation. The following illustration shows the most common configuration for eConnect. In this configuration, the eConnect runtime is installed on a separate server, and accesses the SQL Server that manages Microsoft Dynamics GP data over the local network. To obtain optimal performance, you should use the two server configuration whenever possible.
An alternate configuration installs the eConnect runtime on the Microsoft Dynamics GP server. This is shown in the following illustration:

![Diagram](image)

Which configuration you choose will depend on what types of integration you need, and what server resources you have available. eConnect can also be part of a BizTalk integration. Refer to BizTalk documentation for information about the types of configurations possible with BizTalk Server.

### Business objects

The most basic eConnect components are known as business objects. The eConnect business objects are a collection of SQL stored procedures. The eConnect stored procedures are added to the system database (DYNAMICS) during the initial installation of Microsoft Dynamics GP. Additional eConnect stored procedure are included when you create a new company using Microsoft Dynamics GP Utilities.

The stored procedures contain the business logic used by eConnect. In addition, the stored procedures validate the data and supply default values. Any eConnect action that queries, creates, updates, or deletes data from Dynamics GP uses one or more of these stored procedures.

The eConnect business objects include Dynamics GP documents and transactions that are commonly used in application integration. While eConnect supplies a large number of documents, not every Dynamics GP feature is available through eConnect.

You cannot modify eConnect stored procedures. However, eConnect provides an alternative that allows you to customize its business logic. Each stored procedure includes specially named pre and post stored procedures. You customize eConnect’s business logic by adding SQL queries and commands to these pre and post procedures. The pre stored procedure runs your custom code immediately before the eConnect stored procedure, while the post stored procedure runs immediately after the eConnect stored procedure.
The following diagram illustrates the relationship between an eConnect stored procedure and its pre and post stored procedures:

For example, assume you want to modify the business logic for the eConnect stored procedure named taSopHdrIvcInsert. You complete this modification by adding custom SQL code to the stored procedure named taSopHdrIvcInsertPost. Your custom code will run immediately after every execution of the taSopHdrIvcInsert procedure. To run custom code prior to the execution of the taSopHdrIvcInsert procedure, place the custom SQL code in the stored procedure named taSopHdrIvcInsertPre.

Once eConnect installs its business objects, the stored procedures are available on the server and can be utilized by your application. However, a direct call to an eConnect stored procedure requires you to:

- Create a connection to the database server.
- Implement security restrictions to prevent unauthorized use of your database connection.
- Implement transaction management to commit or rollback changes.
- Identify and handle error conditions.
- Update your application whenever changes are made to the parameters for the stored procedure.

To avoid the extra work of direct calls to the stored procedures, use one of the APIs that eConnect supplies. These API provide a simpler approach to using the eConnect business objects.

**eConnect API**

eConnect provides a collection of APIs that interact with the business objects. There are APIs for Microsoft .NET, and Microsoft Message Queuing (MSMQ). The eConnect APIs allows you to use the interface that best fits your integration project and the available development tools.

To support its API, eConnect supplies the eConnect for Microsoft Dynamics GP 2013 integration Service. The eConnect Integration Service is a Windows service that manages interaction with the eConnect business objects. To use the eConnect runtime on your computer, you must install the eConnect Integration Service on that computer. The eConnect Integration Service requires a user logon. The logon must have sufficient privileges (i.e. be assigned to DYNGRP) to access the Dynamics GP databases on your SQL server.
To use the eConnect API, your application must create or read eConnect XML documents. eConnect supplies XML schema to specify the contents of each document.

A schema is an XML file (with typical extension .xsd) that describes the syntax and semantics of XML documents using a standard XML syntax. An XML schema specifies the content constraints and the vocabulary that compliant documents must accommodate.

The eConnect business objects validate documents against the schema and reject documents that do not comply.

The eConnect Integration Service supports the following APIs:

**Microsoft .NET**
eConnect installs .NET assemblies on your computer and adds them to the global assembly cache. The assemblies use the eConnect Integration Service to access the eConnect business objects. To use eConnect in a .NET development project, add references to these assemblies.

**MSMQ**
The MSMQ API uses MSMQ queues and Windows services to asynchronously transport data between your application and Microsoft Dynamics GP. Your application must be able to access the queues used by the services. Both the Incoming and Outgoing services use the eConnect Integration Service to access the eConnect business objects.

To use the eConnect Incoming Service, create an XML document and place it in the specified queue. The Incoming Service monitors that queue and periodically processes the valid XML documents stored in the queue.

The eConnect Outgoing Service relies on SQL triggers and the business objects to retrieve specified eConnect documents. The service stores the documents in a specified queue. Your application must monitor the queue, retrieve the supplied documents, and perform its actions based on the data in the documents.

**BizTalk**
eConnect provides a BizTalk adapter is an application integration component (AIC) that you can install on your BizTalk 2006 server. The BizTalk adapter allows you to use BizTalk to manage interaction with eConnect business objects.

*Microsoft BizTalk Server 2009 is not supported. At this time, eConnect does not include an adapter for BizTalk 2009.*

The BizTalk adapter supports the use of eConnect as a part of a BizTalk orchestration or in a simple pass-through situation.

**Transaction Requester**
The Transaction Requester is a collection of SQL database tables and database triggers that eConnect uses to make Dynamics GP data changes available to other applications.
The following diagram illustrates the Transaction Requester:

The Transaction Requester supports other eConnect services that export data from Dynamics GP to other applications.

When eConnect installs the Transaction Requester, it creates three tables in each specified Dynamics GP database:

- **eConnect_Out** This table stores data from selected create, update, or delete operations that occur within Microsoft Dynamics GP. The data identifies the individual transactions that occurred. Other eConnect services use the data in the table to create messages that can be used to integrate Dynamics GP data with other applications.

- **eConnect_Out_Setup** This table contains configuration information for the Transaction Requester. To keep the Transaction Requester working, do not make changes to this table.

- **eConnectOutTemp** This table is a temporary data store.

To configure the eConnect Transaction Requester, use the eConnect Requester Setup Tool. The eConnect Requester Setup Tool allows you to specify Dynamics GP objects and operations you want to export to another application. The utility then adds SQL triggers to Dynamics GP that populate the eConnect_Out table for the specified objects and operations. For a detailed explanation of how to configure the Transaction Requester, see *Transaction Requester* on page 38.

For example, assume you want an external application to be updated when a new customer is added to Microsoft Dynamics GP. To begin, use the eConnect Requester Setup Tool to specify the customer object and the SQL insert operation. The eConnect Requester Setup Tool adds a SQL trigger to the database. When a new customer record is inserted, the SQL trigger creates a record of the event in the eConnect_Out table.
The eConnect Outgoing Service periodically queries the eConnect_Out table. The service uses the record in the table to create an XML document that describes the new customer transaction.

The Outgoing Service then places the XML document in a message queue where it can be retrieved and used to notify the external application.
Part 2: Installation

This portion of the documentation explains how to install eConnect for Microsoft Dynamics GP. The following information is discussed:

- Chapter 3, “Prerequisites,” describes the software required and the actions you must perform before you install eConnect for Microsoft Dynamics GP.
- Chapter 4, “eConnect Installation,” describes the process to install eConnect.
Chapter 3: Prerequisites

Before installing eConnect for Microsoft Dynamics GP, there are several prerequisites you must check. This portion of the documentation describes the software requirements and the additional steps to perform before installing eConnect. The following topics are discussed:

- Operating system
- Microsoft .NET Framework
- Dexterity Shared Components
- Service user account
- Functional currency
- Microsoft Message Queueing (MSMQ)

Operating system

To install eConnect, the computer must be running one of the following operating systems:

- Windows Vista Enterprise
- Windows Vista Business
- Windows Vista Ultimate
- Windows 7 Professional
- Windows 7 Business
- Windows 7 Ultimate
- Windows Small Business Server 2008
- Windows Small Business Server 2011
- Windows Server 2008 Standard or Enterprise
- Windows Server 2008 R2 Standard or Enterprise

Microsoft .NET Framework

eConnect requires the Microsoft .NET 3.5 Framework. The eConnect installer verifies that the Microsoft .NET 3.5 Framework is installed on your computer. If the framework is not found, the eConnect installer stops and instructs you to install the Microsoft .NET 3.5 Framework.

Dexterity Shared Components

eConnect requires the Dexterity Shared Components. To install the Dexterity Shared Components, use the Setup.exe file from the Microsoft Dynamics GP installation media to install eConnect.

The install puts the Dexterity Shared Components on the computer. If the computer already has the Dexterity Shared Components, you will not be prompted to install them again.

Service user account

The eConnect service uses SQL Server integrated security to connect to the eConnect business objects. During the installation of eConnect, you need to supply a user account for the service. To set up the user account, complete the following procedure:
1. **Select a user account.**
   Select or create a user account for the eConnect service.
   
   - If you plan to install eConnect on a different computer than the Dynamics GP server in a domain environment, select or create a domain user account.
   
   - If you plan to install eConnect on a different computer than the Dynamics GP server in a workgroup environment, select or create a user on the Dynamics GP server.
   
   - If you plan to install eConnect on the same server as Microsoft Dynamics GP, select or create a local user account.

2. **Give the user account database access.**
   Add the user account you selected or created to the DYNGRP role for the system (DYNAMICS) database and for each company database that will be used with eConnect.

**Functional currency**

eConnect requires a functional currency to be set up for Microsoft Dynamics GP, even if multicurrency is not being used. To set up a functional currency, complete the following procedure:

1. **Open the Multicurrency Setup window in Microsoft Dynamics GP.**
   Choose Tools >> Setup >> Financial >> Multicurrency from the Microsoft Dynamics GP menu. Set the Functional Currency. This example designates US dollars as the functional currency.

Refer to the Microsoft Dynamics GP documentation for additional information about currency setup and multicurrency access.
2. **Complete check links when needed.**
If a message prompts you to run check links for the multicurrency table, you should do so. To run checklinks, open the File menu and select Maintenance >> Check Links. Select the series and tables to check. Click OK.

**Microsoft Message Queueing (MSMQ)**

Application integrations that use the eConnect Incoming, and Outgoing services use MSMQ to transport and store XML documents. These XML documents represent data retrieved from or sent to Microsoft Dynamics GP. You can install eConnect prior to installing MSMQ, but the eConnect services will not be available unless MSMQ is installed.

**Installing MSMQ on Windows Server 2008**

To install MSMQ, complete the following procedure:

1. **Open the Server Manager.**
   Choose Start >> Administrative Tools >> Server Manager.

2. **Select the Features node in the Server Manager.**
The currently installed features appear in the Feature Summary.

3. **Add a new feature.**
   In the Action menu, choose Add Feature. The Add Features Wizard will be displayed.

4. **Mark the Message Queuing Services feature.**
   From the list of features, expand Message Queuing, and mark Messages Queuing Services. Click Next.

5. **Confirm the installation.**
   Review the installation messages, and then click Install.

6. **Review the Installation results.**
   After you have viewed the installation results, click Close.
The eConnect install will add default queues for the incoming and outgoing services. However, you can use Server Manager to add custom private queues that you can use with the incoming and outgoing services.

To add a custom queue, expand Features, expand Message Queuing, right-click Private Queues, click New, and then click Private Queue. The New Private Queue window opens.

You use the New Private Queue window to specify the name of the queue. Type the queue name in the textbox. Click the Transactional checkbox and specify that the queue is transactional. To save the queue information, click OK.

If you do not mark the Transactional box, the queue will not work with the eConnect incoming or outgoing services. Both services require the queue to be transactional.

Note the names of the custom queues that you created, you can use the queue names when you configure the incoming or outgoing service. For more information about configuring the services, see Chapter 5, “Configuring eConnect Services.”
Chapter 4: eConnect Installation

This portion of the documentation describes how to install eConnect for Microsoft Dynamics GP. The following information is discussed:

- Installation procedure
- What to do next

Installation procedure

To install eConnect, complete the following procedure:

1. **Verify the user you are logged in as.**
   The user you are currently logged in as must be in the Administrator group for the computer on which you are installing eConnect.

2. **Start the eConnect installer.**
   To install eConnect, run Setup from the Microsoft Dynamics GP install media. Click eConnect and then click Install.

3. **Install prerequisites.**
   If you see a window that prompts you to install prerequisite components, click Install. If you previously installed eConnect, Microsoft Dynamics GP, or another product, you might not see this window.

4. **Review the license agreement.**
   After reviewing the license agreement, mark the option to accept the terms. Click Next to continue.

5. **Specify the components to install.**
   Select the features you would like to install. The list of features reflects the components you have installed on the server. For example, the option to install the BizTalk Adapter is available only when the install detects BizTalk Server 2006 or later is present.
Specify the install location for eConnect. The default location is c:\Program Files\Microsoft Dynamics\eConnect 12.0 but you can specify another folder.

When you click a button for a feature, a pop-up menu of options appears. Refer to the following table for information about each option.

<table>
<thead>
<tr>
<th>Option</th>
<th>What happens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run from My Computer</td>
<td>Installs the feature on the local hard disk. This option installs the feature but not sub features.</td>
</tr>
<tr>
<td>Run all from My Computer</td>
<td>Installs the feature and all of its sub features.</td>
</tr>
<tr>
<td>Not Available</td>
<td>Do not install the selected feature. You can install the feature later using Add or Remove Programs.</td>
</tr>
</tbody>
</table>

To include a feature, click the button and select “Run from My Computer” To exclude a feature, click the button and select “Not Available”

The install allows you to select from the following features:

**eConnect Runtime Services** Installs the eConnect Integration Service and .NET assemblies. Also registers the eConnect .NET assemblies in the global assembly cache.

**BizTalk Components** Installs the files needed to install the BizTalk application integration component (AIC) adapter.

**Help and Samples** Installs the help files, schema files, tools, and samples that assist with developing, testing, and deploying eConnect customizations

**Incoming-Outgoing Service** Installs the eConnect Incoming Service, and Outgoing Service into the Service Control Manager. Creates the default message queues for both the Incoming and Outgoing Service.
6. **Specify the eConnect Service User account.**
To access the eConnect business objects, the eConnect Runtime Services requires a user login and password. In addition, the Incoming Service, and Outgoing Service will use this account. Enter the domain\login and password credentials for the user account you set up as an eConnect prerequisite. For more information about creating a user account see [Service user account](#) on page 21.

The account must be a member of the DYN_GRP role in the Microsoft Dynamics GP system and company databases on your Microsoft Dynamics GP SQL Server.

Click Next to continue.

7. **Provide SQL connection information.**
Enter the name of your Microsoft Dynamics GP SQL Server. Also enter the name of the Dynamics GP system database.

Click the type of authentication you want to use. Typically, you can use Windows Trusted Authentication to connect to your Microsoft Dynamics GP SQL Server. If your Windows logon account cannot access the Microsoft Dynamics GP server, use SQL Authentication and specify a SQL user name and password. Click Next to continue.

You can prevent the install from creating a connection to a SQL Server. If you mark the Do not add service user to SQL box, the SQL connection is not created. You might want to click this box when you do not know the SQL Server or the Dynamics GP system database that you want eConnect to use. For example, you install
eConnect in a multitenant environment and you do not know the name of the system database for your tenant.

8. **Start the installation.**
   Click Install to begin the installation process. The install will run for several minutes.

9. **Complete the installation.**
   Once the installation completes, click Exit.

   The installation creates the eConnect event log. The log stores all the error, warning and information messages that eConnect generates. To view the eConnect event log, open the Start menu and select Control Panel >> Administrative Tools >> Event Viewer. To view the messages in the eConnect log, click Applications and Services Logs, and then click eConnect.

**What to do next**

After eConnect for Microsoft Dynamics GP has installed, consider taking the following steps:

- Learn about actions you will need to take to configure and maintain the eConnect for Microsoft Dynamics GP components you installed. Details are found in **Part 3, Administration**.

- To learn about developing applications that use eConnect for Microsoft Dynamics GP, retrieve and install the eConnect for Microsoft Dynamics GP Software Development Kit (SDK).
Part 3: Administration

This portion of the documentation explains the configuration and maintenance options for eConnect for Microsoft Dynamics GP. The following information is discussed:

- **Chapter 5, "Configuring eConnect Services."** describes configuration options for eConnect services and the BizTalk adapter.

- **Chapter 6, "Maintenance."** describes how to make changes to an existing eConnect installation.

- **Chapter 7, "Utilities."** identifies the utilities eConnect supplies to setup and monitor eConnect.

- **Chapter 8, "Troubleshooting."** discusses how to troubleshoot issues that occur when using eConnect.
Chapter 5: Configuring eConnect Services

After installing eConnect, you may need to configure the eConnect services or the BizTalk adapter. The following sections describes how to configure these components:

- **Overview**
- **Incoming Service**
- **Outgoing Service**
- **Transaction Requester**
- **BizTalk adapter**

**Overview**

The complete eConnect installation adds three Windows services to your computer’s Service Control Manager. The installer initially configures each service and stores the configuration information in an XML file. These XML configuration files contain keys and values that control the operation of each service. To customize the behavior of a service or to adjust the service to reflect changes in your server environment, change the values for one or more keys in the configuration file.

*Make a backup copy of the configuration file before making any changes. This ensures you will always be able to restore the service if necessary.*

After changing the settings in a configuration file, you must stop and restart the service. The changes in the configuration file will not be implemented until the service restarts.

The eConnect install also includes the Transaction Requester that publishes eConnect XML documents to a specified queue. Use the eConnect Requester Setup utility to specify which Microsoft Dynamics GP documents to publish.

If you install the eConnect Adapter for BizTalk 2006, you must configure BizTalk Server 2006 to work with the adapter. You use the BizTalk Server Administration utility and Visual Studio to configure the BizTalk server.

**Incoming Service**

The eConnect Incoming Service for Microsoft Dynamics GP 2013 integrates eConnect XML documents into Microsoft Dynamics GP. The Incoming Service uses a configuration file named eConnect_Incoming.exe.config to control its operations. This file is typically found in the following location

C:\Program files\Microsoft Dynamics\eConnect 12.0\Service\Incoming Service.
The following example displays the contents of an eConnect_Incoming.exe.config file:

```xml
<?xml version="1.0" encoding="Windows-1252"?>
<configuration>
  <appSettings>
    <add key="eConnect.BackOffice.ConnectionString" value="data source=127.0.0.1; initial catalog=TWO; integrated security=SSPI; persist security info=False; packet size=4096"/>
    <add key="eConnect.Incoming_Queue" value=""/>
    <add key="eConnect.Transactional_deadletter_Queue" value="0"/>
    <add key="eConnect.Schema.Type" value=""/>
    <add key="eConnect.Schema" value=""/>
    <add key="eConnect.LogAll" value="1"/>
    <add key="eConnect.Threads" value="0"/>
  </appSettings>
</configuration>
```

The keys are defined as follows:

**eConnect.BackOffice.ConnectionString**  This key stores the connection string the service uses to connect to the Microsoft Dynamics GP SQL Server. The default value is derived from the connection string specified during installation.

```xml
<add key="eConnect.BackOffice.ConnectionString" value="data source=MYServer; initial catalog=MyDatabase; integrated security=SSPI; persist security info=False; packet size=4096"/>
```

You change how the connection string works by changing the value parameters. For example, you may change the data source or initial catalog parameters to reflect changes in your server configuration.

If you install eConnect on a separate computer from the SQL Server that manages Microsoft Dynamics GP data, you must change this key’s data source parameter. The default configuration assumes a single server install. Change the data source value to specify the SQL Server where the eConnect business objects are installed.

Invalid changes to connection string parameters can prevent the service from working. You should carefully test changes to ensure the connection string is valid.

**eConnect.Incoming_Queue**  This key specifies the message queue that the service will monitor. The default value is blank.

```xml
<add key="eConnect.Incoming_Queue" value=""/>
```

The default creates and monitors a queue named `machine_name\private$\ecomnect_incoming`. To use another message queue, set the value to the queue’s name.
eConnect.Transactional_deadletter_Queue  This key specifies where undeliverable messages are stored. The default value for the key is zero.

\<addkey="eConnect.Transactional_deadletter_Queue"value="0"/>\n
The value “0” stores the undeliverable message in the system’s transactional deadletter queue.

A value of “1” stores undeliverable messages in the deadletter queue associated with the message queue specified by the eConnect.Incoming_Queue key. If the eConnect.Incoming_Queue key has value="", the service sends undeliverable messages to machine_name\private$\econnect_incoming_deadletter.

If the eConnect.Incoming_Queue key specifies a queue name, the service sends undeliverable messages to a queue with a name that appends _deadletter to the specified queue name. For example, the eConnect.Incoming_Queue key sets value="machine_name\private$\TestQueue", the service sends undeliverable messages to the queue named machine_name\private$\TestQueue_deadletter.

eConnect.Schema.Type  This key specifies whether to perform schema validation and the type of schema to use. The default value is blank.

\<addkey="eConnect.Schema.Type"value=""/>\n
A blank key value means there is no schema validation. The other possible values is XSD. You set the value to XSD when you want to validate an eConnect XML documents against the eConnect schema.

Schema validation ensures the XML document in the message contains all the information required for a successful create, update, or delete operation in Microsoft Dynamics GP. Schema validation verifies the name of each XML node, the order of each node in the XML document, and the values contained by the node. If the XML document fails validation, an error is logged in the eConnect event log and the XML document is discarded.

If you elect not to perform schema validation, the order and name of each XML node is not verified. When eConnect encounters an XML document that contains a node with an unrecognized name, the data value for that node is omitted but the specified operation is allowed to proceed. No log entry is made about the omitted node. Invalid data values are detected and logged as an error in the eConnect event log even when schema validation is not performed. XML documents with invalid data are discarded after logging the error message.

eConnect.Schema  This key specifies the location of the XSD schema file. The default value is blank.

\<addkey="eConnect.Schema"value=""/>\n
A blank key value indicates incoming XML documents will not be validated. If you have set the eConnect.Schema.Type key to XSD, use this key to supply the path to the XSD schema file. For example, use value="C:\Program Files\Microsoft Dynamics\eConnect 12.0\XML Sample Documents\Incoming XSD Schemas\eConnect.xsd” to validate against the schema definitions contained in that XSD file.
**eConnect.LogAll**  The key specifies the types of messages to log in the eConnect event log. The default value is blank.

```
<addkey="eConnect.LogAll"value=""/>
```

The value “" logs only errors. Change the value to “1” to log all messages in the eConnect event log.

**eConnect.Threads**  This key specifies the number of threads that are available when the service starts. The default value is “0”.

```
<add key="eConnect.Threads" value="0" />
```

A value of “0” indicates a single thread will be used. You can set the value to any number between 0 and 19. A value of 19 makes 20 threads available when the service starts. A higher number of threads should allow the service to process documents more quickly.

*There are scenarios where increasing the number of threads degrades system performance. If the server cannot support more threads, or custom code added to an eConnect pre or post stored procedures is not thread safe, adding threads may cause unexpected results. Changes to this key’s value require careful evaluation and testing.*

**Outgoing Service**

The eConnect Outgoing Service for Microsoft Dynamics GP 2013 allows you to integrate transaction information originating in Microsoft Dynamics GP into your application. The Outgoing Service creates XML documents and stores them in a message queue. Your application must retrieve these messages to use the XML documents they contain. The Outgoing Service creates a default queue named `machine_name\private\econnect_outgoing` to store outgoing messages.

Typically, you use the Outgoing Service in conjunction with the eConnect Transaction Requester. You use the Transaction Requester to specify the Dynamics GP documents you want sent to the message queue. Refer to [Transaction Requester](#) on page 38 section for more information.

The Outgoing Service uses a configuration file named `eConnect_Outgoing.exe.config` to control its operations. This file is typically found in the following location:

```
C:\Program Files\Microsoft Dynamics\eConnect 12.0\Service\Outgoing Service\eConnect_Outgoing.exe.config.
```
The following example displays the contents of an `eConnect_Outgoing.exe.config` file:

```xml
<?xml version="1.0"?>
<configuration>
  <configSections>
    <section name="DatabaseNames" type="System.Configuration.SingleTagSectionHandler" />
  </configSections>
  <appSettings>
    <add key="BackOfficeConnString.ConnectionString" value="
      packet size=4096;
      integrated security=SSPI;
      data source=127.1.0.0;
      persist security info=False;
      initial catalog=TWO" />
    <add key="Queue.Type" value="0" />
    <add key="Requester.ACTION" value="0" />
    <add key="Requester.OutputType" value="2" />
    <add key="Requester.Remove" value="1" />
    <add key="Timer1.Interval" value="1000" />
    <add key="Delay.Interval" value="5" />
    <add key="ByteOrderMark" value="0" />
  </appSettings>
  <DatabaseNames database1="DYNAMICS" database2="TWO" />
</configuration>
```

The keys are defined as follows:

**eConnect.BackOffice.ConnectionString** This key stores the connection string the service uses to connect to the Microsoft Dynamics GP SQL Server. The default value is the connection string specified during installation.

```xml
<add key="BackOfficeConnString.ConnectionString" value="
   packet size=4096;
   integrated security=SSPI;
   data source=127.1.0.0;
   persist security info=False;
   initial catalog=TWO" />
```

You change how the connection string works by changing the value parameters. For example, you may change the data source or initial catalog parameters to reflect changes in your server configuration.

If you install eConnect on a separate computer from the SQL Server that manages Microsoft Dynamics GP data, you must change this key’s data source parameter. The default configuration assumes a single server install. Change the data source value to specify the SQL Server where the eConnect business objects are installed.

*Invalid changes to connection string parameters can prevent the service from working. You should carefully test changes to ensure the connection string is valid.*
Queue.Type  This key specifies whether the targeted queue is a public or private queue. The default value is “0”.

```xml
<add key="Queue.Type" value="0" />
```

The following is a list of the possible queue types:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The queue is a private queue.</td>
</tr>
<tr>
<td>1</td>
<td>The queue is a public queue.</td>
</tr>
</tbody>
</table>

Requester.ACTION  This key specifies the type of database operations you want the service to monitor. The default value is “0”.

```xml
<add key="Requester.ACTION" value="0"/>
```

The value “0” creates and stores an XML document in the queue whenever there is an insert, update, or delete operation for the Dynamics GP document types selected using the Requester Enabler/Disabler utility.

Use this key to specify the types of XML documents produced by the Outgoing Service. The following is a list of possible action types:

<table>
<thead>
<tr>
<th>Value</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>All documents</td>
<td>Creates an XML document and stores it in a message queue for each Transaction Requester enabled insert, update, or delete operation.</td>
</tr>
<tr>
<td>1</td>
<td>Inserts</td>
<td>Creates an XML document and stores it in a message queue for each Transaction Requester enabled insert operation. The Outgoing Service ignores any Transaction Requester enabled update or delete operations.</td>
</tr>
<tr>
<td>2</td>
<td>Updates</td>
<td>Creates an XML document and stores it in a message queue for each Transaction Requester enabled update operation. The Outgoing Service ignores any Transaction Requester enabled insert and delete operations.</td>
</tr>
<tr>
<td>3</td>
<td>Deletes</td>
<td>Creates an XML document and stores it in a message queue for each Transaction Requester enabled delete operation. The Outgoing Service ignores any Transaction Requester enabled insert and update operations.</td>
</tr>
<tr>
<td>4</td>
<td>Inserts and updates</td>
<td>Creates an XML document and stores it in a message queue for each Transaction Requester enabled insert or update operation. If a record is updated multiple times, the queue contains an XML document for each update operation. The Outgoing Service ignores any Transaction Requester enabled delete operations.</td>
</tr>
<tr>
<td>5</td>
<td>Combined inserts and updates</td>
<td>Creates an XML document and stores it in a message queue for Transaction Requester enabled insert and update operations. Inserts and updates to the same record produce only a single XML document in the queue. The Outgoing Service ignores any Transaction Requester enabled delete operations.</td>
</tr>
</tbody>
</table>
CHAPTER 5  CONFIGURING ECONNECT SERVICES

Requester.OutputType  This key specifies the type of the XML document that is created. The default value is “2”, which retrieves the complete document.

```
<addkey="Requester.OutputType"value="2"/>
```

The following is a list of possible output types:

<table>
<thead>
<tr>
<th>Value</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>List</td>
<td>Retrieves key information. The XML document contains the record’s unique key value and the database and table in Microsoft Dynamics GP where it is stored.</td>
</tr>
<tr>
<td>1</td>
<td>Master document</td>
<td>Retrieves the master document only. The XML master document contains all the eConnect schema fields for that record. For example, the XML document produced for a new customer will include every field defined by the eConnect customer schema.</td>
</tr>
<tr>
<td>2</td>
<td>Complete document</td>
<td>Retrieves the complete document. The XML document contains the master document data and any child documents related to the master document. For example, the XML document for a customer will also include the address documents for that customer.</td>
</tr>
</tbody>
</table>

Use this key to adjust the amount of data the Outgoing Service places in each XML document.

Requester.Remove  This key specifies whether or not the record is deleted from the eConnect_Out table after the service places the document in the message queue. The default value is “1”.

```
<addkey="Requester.Remove"value="1"/>
```

A value of “1” deletes the record from the eConnect_Out table. A value of “0” keeps the record in the eConnect_Out table.

The service queries the list of records in the eConnect_Out table. It then cycles through the list of records to identify the documents to place in the message queue. If the record in the eConnect_Out table is not deleted, the service creates a duplicate document in the message queue each time it runs.

Timer1.Interval  This key specifies the number of milliseconds the service pauses between queries of the eConnect_Out table. Default value is “1000”

```
<addkey="Timer1.Interval"value="1000"/>
```

Change the value when you need to optimize the workload the service places on your computer.

Delay.Interval  This key specifies the number of seconds a record must exist in the eConnect_Out table to be eligible for processing by the service. The default value is “5”.

```
<addkey="Delay.Interval"value="5"/>
```

The default value indicates a record will not be processed until it has been in the eConnect_Out table for a minimum of five seconds.
**ByteOrderMark**  This key specifies whether the byte order mark (BOM) should be added to the XML output. The default value is “0”.

```xml
<add key="ByteOrderMark" value="0" />
```

The byte order mark was used with BizTalk 2004. Use the default value unless you specifically want to change the byte order mark behavior of the outgoing service.

**DatabaseNames**  This XML node contains attributes that specify the databases the Outgoing Service monitors. The default includes all of the Dynamics GP databases that existed when the service was installed.

```xml
<DatabaseNames database1="DYNAMICS" database2="TWO" />
```

The Outgoing Service monitors the databases in the order they are listed. Each specified database must include the eConnect business objects and the eConnect_Out, eConnect_Out_Setup, and eConnectOutTemp tables.

To add a company to the Outgoing Service, you must identify the company database in the configuration file’s DatabaseNames node. For example, assume you added a new company named CONTOSO to Microsoft Dynamics GP. To add this company to the Outgoing Service, complete the following:

- Add database3="CONTOSO" as an attribute to the DatabaseNames node of the Outgoing Services’s configuration file. The update to the DatabaseNames node appears as follows:

```xml
<DatabaseNames database1="DYNAMICS" database2="TWO" database3="CONTOSO"/>
```

**Transaction Requester**

The Transaction Requester allows you to specify Microsoft Dynamics GP documents to publish as eConnect XML documents. You also specify whether to publish for an insert, update, or delete operation in a Microsoft Dynamics GP database. You configure the Transaction Requester, complete the following procedure:
1. **Start eConnect Requester Setup.**
   In the Start menu, select Programs >> Microsoft Dynamics >> eConnect for Microsoft Dynamics GP 2013 >> Requester Setup >> Requester Setup. The Requester Setup Tool window opens.

2. **Create a connection string.**
   The first time you open the Requester Setup Tool, you must create a connection string that enables the Requester Setup Tool to access to your Microsoft Dynamics GP SQL Server. If you previously configured the connection string, proceed to the next step.

   To create the connection string, choose Setup Connection from the Connection Settings menu. The Connection Setup window opens. Enter the name of the Microsoft Dynamics GP SQL Server and the company database you will use with the Transaction Requester.

   Mark the Integrated Security check box to use your Windows logon information. If you clear the Integrated Security check box, you must supply a SQL user name and password that enables the Requester Setup Tool to access the specified database. Click Save.

3. **Connect to the database.**
   To complete the connection to your database, click Connect. The Insert, Update, Delete, and Message Queues tabs display the list of available document types.
4. **Select the Insert document types to publish to MSMQ.**
   On the Insert tab, mark the check box of each document type you want to send to MSMQ when a new document of that type is created. To discontinue the publishing of a document, remove the check from the check box for that document type.

![Requester Setup Tool](image)

5. **Select the Update document types to publish to MSMQ.**
   On the Update tab, mark the check box of each document type you want to send to MSMQ when a document of that type is modified.

   To discontinue the publishing of a document, remove the check from the check box for that document type.

6. **Select the Delete document types to publish to MSMQ.**
   On the Delete tab, mark the check box of each document type you want to send to MSMQ when a document of that type is deleted.

   To discontinue the publishing of a document, remove the check from the check box for that document type.
7. **Specify the queue to use for a document type.**
   You can associate a specific MSMQ queue with a document type. If a queue is specified, the XML documents will be stored in that queue. To specify a queue, mark the check box and enter the queue name in the QUEUEPATH column. If you do not specify a queue, the eConnect Outgoing Service places the XML documents in the econnect_outgoing12 queue.

8. **Click Update to save your Requester Setup Tool changes.**
   The Requester Setup Tool creates SQL triggers for each selected document and operation. The triggers write to the eConnect_Out table in the database specified by the connection string. The eConnect Outgoing Service uses this table to identify the XML documents to place in the specified queue. If you unmarked a check box to discontinue publishing a document type, the SQL triggers for that document type and operation are removed.

9. **Close the Requester Setup Tool.**
   Click Exit to close the Requester Setup Tool window.
BizTalk adapter

The BizTalk adapter allows you to use eConnect in a BizTalk orchestration or in a simple pass-through situation. A BizTalk orchestration allows applications with differing message formats to integrate, while a BizTalk pass-through simply routes messages between applications.

To configure the eConnect BizTalk 2006 adapter, you must have already installed Microsoft Visual Studio on that computer.

To configure the BizTalk adapter, complete the following procedure:

1. **Open the BizTalk Administration console.**
   In the Start menu, select All Programs >> Microsoft BizTalk Server >> BizTalk Server Administration. The BizTalk Administration Console opens.

2. **Add the adapter.**

   In the Name box, enter eConnect as a name for the send adapter. In the Adapter box, select Dynamics GP eConnect. Click OK to continue.
3. **Open the Adapter Handler Properties window.**
   In the list of Adapters displayed in the BizTalk Server Administration Console, double-click the eConnect adapter that you created in the previous step.

   The right pane displays a Host Name of BizTalkServerApplication. Right-click BizTalkServerApplication and select Properties. The Adapter Handler Properties window opens. Click the Properties button. The eConnect Transport Properties window opens.

4. **Edit the connection string property.**
   Change the data source to point to your Microsoft Dynamics GP server and set the initial catalog to DYNAMICS or the company database you want to work with. Click OK to continue.

5. **Close the Adapter Handler Properties window.**
   Click OK to close the Adapter Handler Properties window.

6. **Create a new Send Port.**
   In the BizTalk Server Administration console tree, expand the BizTalk group and the BizTalk application for which you want to create a send port. Right-click Send Ports, click New, and then click Static One-way Send Port
7. **Select eConnect as the transport type.**
   In the Send Port Properties window, click the Type drop down list box, and then click the eConnect adapter you created earlier.

![Send Port Properties](image)

8. **Open the Transport Properties window.**
   To open the eConnect Transport Properties window, click the Configure button. Set the data source parameter of the connection string to point to your Microsoft Dynamics GP SQL Server. Set the initial catalog parameter to the Dynamics GP database you want to work with. Click OK to continue.

![Transport Properties](image)

9. **Verify the Send Pipeline.**
   In the Send pipeline drop down list box, verify that the Send Pipeline property is set to PassThroughTransmit.

![Send Pipeline](image)
CHAPTER 5 CONFIGURING ECONNECT SERVICES

10. Select Filters and Maps (when needed).
If you are planning to use a BizTalk orchestration, continue to the next step.

If you are not using BizTalk orchestration, click Filters. In the Filters window, use the Property drop-down list to select BTS.ReceivePortName. In the Value text box, enter the name of the receive port. Click OK to continue.

![Image of BizTalk Server Administration Console filtering settings]

To add a map to your sendport, click Outbound Maps. Specify the map or maps to use with the current port.

11. Save the send port configuration.
Click OK. Close the BizTalk Server Administration Console.
Chapter 6: Maintenance

This portion of the documentation provides information about modifying, repairing, or removing an existing eConnect installation. The following items are discussed:

- Modifying an eConnect installation
- Completing a repair
- Restoring the eConnect Stored Procedures
- Removing eConnect

Modifying an eConnect installation

eConnect allows you to add or remove individual features from an existing installation. To add or remove features, complete the following steps:

1. Start the eConnect installer.
   Open Add or Remove Programs, choose eConnect for Microsoft Dynamics GP 2013. Click Change. The eConnect for Microsoft Dynamics GP 2013 window opens.

2. Choose Add/Remove Features.
   Click Add/Remove Features.

3. Specify the features to add or remove.
   The Select Features window opens. Additional information about selecting eConnect features can be found in Chapter 4, “eConnect Installation.” Click Next.

4. Begin the installation.
   Click Install to add or remove the specified features. The installer may take several minutes to complete the update.

5. Close the wizard.
   When the Installation Complete window appears, click Exit to close the wizard.
Completing a repair

If the eConnect for Microsoft Dynamics GP application becomes damaged, the repair operation may help resolve the issue. The Repair wizard fixes the following:

- Missing or corrupt files
- Missing or corrupt shortcuts
- Missing or corrupt registry entries

The repair operation cannot perform the following:

- Restore default configuration settings for the eConnect Integration Service, MSMQ, or the Incoming, Outgoing, services.
- Remove or restore your customizations made to any Pre or Post stored procedure.

To complete a repair, perform the following steps:

1. **Start the eConnect installer.**
   Open Add or Remove Programs, click eConnect for Microsoft Dynamics GP 2013, and then click Change. The eConnect for Microsoft Dynamics GP 2013 window opens.

2. **Click Repair.**

3. **Specify eConnect account information.**
   You must supply the domain, user name and password of the windows account that you want the eConnect Integration Service, Incoming Service, and Outgoing Service to use. Refer to Chapter 4, “eConnect Installation,” for additional information about the eConnect windows account. Click Next to continue.

4. **Specify SQL connection information.**
   Enter the name of the SQL Server you want to use. Also, specify the type of authentication to use with that server. Click Next.

5. **Ready to repair.**
   Click Repair to begin. The repair will run for several minutes.

6. **Repair complete**
   When the Repair Complete window appears, click Exit to close the wizard.
Restoring the eConnect Stored Procedures

To restore the eConnect stored procedures, use the Microsoft Dynamics GP Database Maintenance utility. The Database Maintenance utility allows you to reload all eConnect stored procedures and their associated pre and post procedures.

When the Database Maintenance utility reloads the stored procedures, customizations to the eConnect pre or post stored procedures are removed. To prevent the loss of customized pre and post procedures, save each customized stored procedure to a safe location prior to running the Database Maintenance utility. After the Database Maintenance utility reinstall the eConnect stored procedures, restore each saved pre and post procedure to the database.

To restore the eConnect stored procedures, complete the following steps:

1. **Start the Database Maintenance utility.**
   From the Start menu choose Programs >> Microsoft Dynamics >> GP 2013 >> Database Maintenance. The Database Maintenance utility opens.

2. **Provide connection information.**
   Use the Server Name list to specify the name of the Microsoft Dynamics GP SQL server. Specify the type of authentication to use, and then click Next.

3. **Specify the databases.**
   Review the list of databases. Mark each database where you want to reload the eConnect stored procedures. Click Next.

4. **Specify the products for which stored procedures will be reloaded.**
   Typically, you will mark Microsoft Dynamics GP, since most eConnect stored procedures are part of the core application. However, other products also include eConnect stored procedures. To reload all eConnect stored procedures, you must mark all the products that include eConnect stored procedures. For example, there are eConnect stored procedures associated with Project Accounting. Click Next to continue.

5. **Specify the database objects.**
   Mark Functions, and Stored Procedures. Click Next.
6. **Confirm the reload information and reinstall the stored procedures.**
   Review the database, product, and database object information. If no changes are needed, click Next to reinstall the stored procedures.

7. **Close the Database Maintenance utility.**
   When the utility has finished, review the results. Click Exit to close the Database Maintenance utility.

   For more information about the Database Maintenance utility, click the help button on the utility or review the Database Maintenance Utility section of the Microsoft Dynamics GP System Administrator’s Guide.

---

### Removing eConnect

The eConnect remove operation allows you to delete all of the installed eConnect folders and files. It deletes only the files and folders created in file system of the local machine. To remove eConnect from a computer, complete the following steps:

1. **Start the eConnect installer.**
   Open Add or Remove Programs, choose eConnect for Microsoft Dynamics GP 2013, and then click Change. The *eConnect for Microsoft Dynamics GP 2013* window opens.

2. **Click Remove.**
   Click Remove.

3. **Begin the uninstall.**
   The Remove window opens. Click Remove to begin the uninstall. The uninstall will run for several minutes.

4. **Close the wizard.**
   When the *Remove Complete* window appears, click Exit to close the wizard.
Chapter 7: Utilities

eConnect includes several utilities that help to configure and administer some components. The following sections describe these utilities:

- **eConnect Requester Setup Tool**
- **eConnect MSMQ Control**

### eConnect Requester Setup Tool

The eConnect Requester Setup Tool allows you to specify Microsoft Dynamics GP document types to publish as eConnect XML documents to a Microsoft message queue (MSMQ). The utility also allows you to specify a queue for each document.

For more information about the Requester Setup Tool, see *Transaction Requester* on page 38.

### eConnect MSMQ Control

The eConnect MSMQ Control utility allows you to view, manipulate, and resend messages in MSMQ. You use the eConnect MSMQ Control to debug MSMQ message issues, to resubmit messages from a deadletter queue, or to direct messages to a different queue.

*If you install the eConnect Runtime Services, the eConnect MSMQ Control is not available. The runtime install does not include the eConnect MSMQ Control. To use the eConnect MSMQ Control, you must also install the Incoming-Outgoing Service.*
To use the eConnect MSMQ Control, open the Start menu and select All Programs >> Microsoft Dynamics >> eConnect for Microsoft Dynamics GP 2013 >> eConnect MSMQ Control. The eConnect MSMQ Control appears.

Select the type of queue. The eConnect MSMQ Control allows you to work with private queues, public queues, or the Deadletter queue. Enter the path for the queue in the Queue Path text box. Click Open. The Messages list box displays the label of each message in that queue.

To view or edit a specific message, click its label in the list box. The Message Contents textbox at the bottom of the screen displays the message. If you want to change the contents of the message, use the textbox to find and edit the XML.

To resubmit the message or to send it to another queue, enter the path to the target queue in the Queue Path for Resending text box. Click Resend. The Message Log textbox logs any messages from resending the message. The eConnect MSMQ Control also allows you to indicate whether to leave the original messages in the queue or have the original message deleted once the messages is resent. The eConnect MSMQ Control also allows you to relabel a message.
Chapter 8: Troubleshooting

If you encounter problems with eConnect for Microsoft Dynamics GP, the following sections may be helpful. They describe some of the most common situations that can occur when using eConnect. The following items are discussed:

- Functional currency
- Connection string problems
- Login problems
- Incoming or Outgoing Services
- eConnect event log
- Incoming Service problems
- eConnect Integration Service

**Functional currency**

If you add a new company to Microsoft Dynamics GP and you install the eConnect business object for the new company, you may encounter problems when eConnect attempts a create, update, or delete operation. Common examples include:

- The eConnect Incoming Service fails to update the company database. You find Microsoft message queuing (MSMQ) messages that target the new company in the system’s Transactional dead-letter messages queue.

- Applications using the eConnect API generate error messages that indicate a functional currency is needed.

- You find the eConnect event log contains entries that report a functional currency has not been set up and is required.

To use the eConnect business objects, you must define a functional currency for the new company. eConnect requires a currency ID for the company, even if multicurrency is not being used. Review the setup procedure, Functional currency on page 22, to specify a functional currency.

**Connection string problems**

After creating or editing an eConnect connection string, attempts to use the Microsoft.Dynamics.GP.eConnect.dll (.NET assembly) log the following error message:

Integrated Security is required.
Please ensure that the ConnectionString input parameter is valid.

To eliminate the error, check the connection string. The connection string must contain:

Integrated Security=SSPI;

If this parameter is missing from the connection string or is not set to SSPI, edit the connection string to supply the correct integrated security setting.
Login problems

After installing eConnect, any attempt to use the eConnect API or start an eConnect service creates an error message in the eConnect event log. The log entries indicate the user login is invalid or cannot perform the requested action. To resolve these issues, review the following:

- Verify that the login account can access the SQL Server where the eConnect business objects are installed. The login must be able to access the Microsoft Dynamics GP server.

- Verify that the login account can access the DYNAMICS database and the company databases where the eConnect business objects are installed. SQL Server must authorize the login account to access these databases.

- Verify that the login account is assigned to the DYNGRP database role. The login account must have the DYNGRP role for the DYNAMICS database and each company database where the eConnect business objects are installed.

Incoming or Outgoing Services

When you attempt to start the eConnect Incoming Service, you see the following error message:

Could not start the Microsoft Business Solutions - Great Plains eConnect Incoming Service on the Local Computer.

Error 1075: The dependency service does not exist or has been marked for deletion.

A similar message is displayed when attempting to start the Outgoing Service.

The message indicates MSMQ was not installed on the computer with the eConnect Incoming and Outgoing services. Refer to Microsoft Message Queueing (MSMQ) on page 23 for instructions on installing MSMQ.

eConnect event log

The eConnect install creates an event log that records error, warning and informational messages generated by eConnect. To view the eConnect event log, open the Start menu and select Control Panel >> Administrative Tools >> Event Viewer. Click the eConnect log to view the list of messages.
You will want to check the eConnect event log in the following situations:

- Your application produces error messages. Check the event log to see if eConnect is logging any messages that specify the cause of the error.

- You find insert, update, or delete operations performed by eConnect are not visible in the Microsoft Dynamics GP client. Review the eConnect event log to see whether operations are being aborted. The log will contain an error message that explains why the operation was not completed.

- If you validate incoming XML documents, the event log will contain error messages about the documents that failed validation. Use the messages in the event log to correct the XML so the documents can be resubmitted.

The information in the error messages specifies the type of error and its source. Use the information contained in the messages to identify the corrective actions that are needed.

**Incoming Service problems**

After starting the Incoming Service, you find that expected Microsoft Dynamics GP data changes do not occur. The Incoming Service processes the incoming XML documents, but some insert, update, or delete operations are not completed. The missing operations may result from using schema validation with the Incoming Service.

To see whether validation is the cause, open the configuration file for the Incoming Service and check the eConnect.Schema.Type key. If the key value is XSD, the Incoming Service is validating the XML of all the incoming documents. For additional information about configuring the Incoming Service, see the [Incoming Service](#) on page 31.

When validation is enabled, the Incoming Service checks all incoming documents for compliance with eConnect’s schema definition for that document. A validation error occurs if the document contains improperly named nodes, the sequence of the nodes within the document differs from the schema, or the nodes contain unexpected values. If the Incoming Service encounters a validation error, it logs an error message in the eConnect event log. After logging the error message, the operation is aborted.

To prevent operations from being lost to validation errors, perform one of the following actions:

- Use the error information to determine what is causing the validation problem. Change the application that generates the XML documents to comply with the eConnect schema.

- Use the error messages in the log to identify documents that failed validation. Use the information in the error message to correct each XML document. Resubmit the documents to the Incoming Service.

- Disable validation for the Incoming Service. This will stop eConnect from logging an error when an XML document contains an unknown element name, or the order of the elements in the document differ from the document’s schema.
eConnect Integration Service

Your eConnect application suddenly stops producing changes in Microsoft Dynamics GP. Your investigation finds that the application was previously working. You cannot find any recent changes to the application or the eConnect configuration. To determine whether the eConnect Integration Service is causing the unexpected result, perform the following actions:

- Check whether the eConnect Integration Service is using the correct login credentials. The installation requires you to provide a user name and password for the eConnect Integration Service. If you later change the password of that user and do not update the eConnect Integration Service with the new password, the eConnect Integration Service will not start.

To update the eConnect Integration Service password, open the eConnect Integration Service in the Services console. Right-click the eConnect for Microsoft Dynamics GP 2013 Integration Service, and click Properties. Click the Log On tab. Update Password and Confirm Password with the current password of the specified user account, and then click OK.

- Check whether the eConnect Integration Service has been stopped. Open the eConnect Integration Service in the Services Console. Right-click the eConnect for Microsoft Dynamics GP 2013 Integration Service and select Start. If you receive an error message stating you must enable the application, right-click eConnect for Microsoft Dynamics GP 2013 Integration Service, and then select Enable.

- If you make changes to the configuration file of the eConnect Integration Service, restart the service. Right-click the eConnect for Microsoft Dynamics GP 2013 Integration Service and select Restart.

eConnect Integration Service tracing

To get information you can use to debug or optimize eConnect applications, enable tracing for the eConnect for Microsoft Dynamics GP 2013 Integration Service. The configuration file for the eConnect Integration Service includes settings that log the errors or actions in the service to a file.

To enable tracing, you edit the Microsoft.Dynamics.GP.eConnect.Service.exe.config file. The file is typically found in the following location:

c:\Program Files\Microsoft Dynamics\eConnect 12.0\Service

Before you make changes to the Microsoft.Dynamics.GP.eConnect.Service.exe.config file, make a copy of the file and save the file to a safe location. If you encounter problems with the edited configuration file, use the saved copy to restore the eConnect Integration Service.
To configure tracing, find the `<system.diagnostics>` node. In the `<sources>` node, find the `<source>` with the name eConnectServiceTraceSource. To enable tracing, set the `switchValue` attribute to one of the following values:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>All exceptions are recorded.</td>
</tr>
<tr>
<td>Information</td>
<td>Records important and successful milestones of application execution,</td>
</tr>
<tr>
<td></td>
<td>regardless of whether the application is working properly or not.</td>
</tr>
<tr>
<td>Verbose</td>
<td>Records events that mark successful milestones. Includes low level events</td>
</tr>
<tr>
<td></td>
<td>for both user code and the service. Useful for debugging or for application</td>
</tr>
<tr>
<td></td>
<td>optimization.</td>
</tr>
</tbody>
</table>

The following XML sample shows how to use the Microsoft.Dynamics.GP.eConnect.Service.exe.config file to enable tracing using the eConnectServiceTraceSource. Notice how the `switchValue` is set to Verbose.

```xml
<system.diagnostics>
  <sources>
    <source name="eConnectTraceSource" switchValue="Off">
      <listeners/>
    </source>
    <source name="eConnectServiceTraceSource" switchValue="Verbose">
      <listeners>
        <add name="eConnectSvcTextTracelistener">
          <filter type="" />
        </add>
      </listeners>
    </source>
  </sources>
</system.diagnostics>
```

To configure the listener for the eConnectServiceTraceSource, find the eConnectSvcTextTracelistener in the `<sharedListeners>` node. Edit the `initializeData` attribute to specify a folder and file name for the trace file. The default name for the file is eConnectSvc.log. You can change the value to specify a different file name.
The following XML sample updates the initializeData attribute of the eConnectSvcTracelistener. Notice how the value specifies the TEMP folder of the computer.

```xml
<sharedListeners>
  <add initializeData="C:\TEMP\eConnectSvc.log"
       type="System.Diagnostics.TextWriterTraceListener,
            System, Version=2.0.0.0, Culture=neutral,
            PublicKeyToken=b77a5c561934e089"
       name="eConnectSvcTextTracelistener">
    <filter type="" />
  </add>
  <add initializeData="%TEMP%\eConnectSvcLog.xml"
       type="System.Diagnostics.XmlWriterTraceListener,
            System, Version=2.0.0.0, Culture=neutral,
            PublicKeyToken=b77a5c561934e089"
       name="eConnectSvcXmlTracelistener">
    <filter type="" />
  </add>
  <add initializeData="%TEMP%\eConnect.log"
       type="System.Diagnostics.TextWriterTraceListener,
            System, Version=2.0.0.0, Culture=neutral,
            PublicKeyToken=b77a5c561934e089"
       name="eConnectTextTracelistener">
    <filter type="" />
  </add>
  <add initializeData="%TEMP%\eConnectLog.xml"
       type="System.Diagnostics.XmlWriterTraceListener,
            System, Version=2.0.0.0, Culture=neutral,
            PublicKeyToken=b77a5c561934e089"
       name="eConnectXmlTracelistener">
    <filter type="" />
  </add>
</sharedListeners>
</system.diagnostics>

When you are done, save the Microsoft.Dynamics.GP.eConnect.Service.exe.config file. To use the updated configuration settings, you might need to stop and restart the eConnect Integration Service.

The eConnectSvcTracelistener records the specified trace events into a text file. The default name for the file is eConnectSvc.log. To view the results of the trace, open the file in a text editor.

If you prefer to have an XML based trace file, enable the eConnectSvcXmlTracelistener in the <listeners> of the eConnectServiceTraceSource. This listener records the same trace information but formats the result in an XML file named eConnectSvcLog.xml. If you enabled the eConnectSvcXmlTracelistener, you also need to update the initializeData attribute for the listener to specify a folder and file name for the XML trace file.
You might notice that the Microsoft.Dynamics.GP.eConnect.Service.exe.config file contains a source named eConnectTraceSource and listeners for that source. The eConnectTraceSource provides trace information for the eConnect .NET assemblies. For more information about tracing activity with the .NET assemblies, see the eConnect Programmers Guide and Reference documentation.

When you are done tracing, set the switchValue attribute of the eConnectServiceTraceSource to Off.
Glossary

Application programming interface (API)
A set of functions or features you access to programmatically use or manipulate a software component or application.

Back office
A financial management system. In an eConnect environment, this refers to Microsoft Dynamics GP.

BizTalk server
A Microsoft platform that manages the exchange of data between applications.

BizTalk adapter
A preconfigured BizTalk Application Integration Component (AIC) that allows BizTalk server to use eConnect.

Business objects
The collection of SQL stored procedures that contain eConnect’s business logic.

Connection string
A text representation of the initialization properties needed to connect to a data store.

eConnect
A collection of tools, components, and APIs that provide programmatic integration with Microsoft Dynamics GP.

eConnect Integration Service
A Microsoft Windows service that enables applications to send XML documents to the eConnect business objects (SQL stored procedures). Also, enables applications to retrieve specified XML documents from Microsoft Dynamics GP.

eConnect XML document
A text document that describes Microsoft Dynamics GP data. The eConnect XML schema specifies the content and structure of data in the document.

Front office
An application that communicates with the back office. Examples include customer relationship management systems, data warehouses, and web sites.

Functional currency
The currency an organization uses to keep the bulk of its financial records.

Incoming Service
A Microsoft Windows service that monitors a queue for new eConnect XML documents. Valid documents are used to create, update, or delete records in Microsoft Dynamics GP.

Integrated security
The SQL server security option that leverages Windows authentication to supply the user’s login credentials. It allows a network user to access a SQL server database without supplying separate login credentials.

Microsoft message queuing (MSMQ)
A message infrastructure and development platform for creating distributed, loosely-coupled messaging applications.

Outgoing Service
A Microsoft Windows service that publishes eConnect XML documents to a specified queue. The XML documents represent documents that were created, updated, or deleted in Microsoft Dynamics GP.

Post stored procedure
A customized SQL stored procedure that runs immediately after an eConnect stored procedure.

Pre stored procedure
A customized SQL stored procedure that runs immediately before an eConnect stored procedure.

Schema
An XML file (with typical extension .XSD) that describes the syntax and semantics of XML documents using a standard XML syntax. An XML schema specifies the content constraints and vocabulary that compliant documents must accommodate.

Services
Microsoft Windows services are long-running applications that perform some system function. Services typically do not display any user interface. eConnect uses services to enable the exchange of eConnect XML documents between an application and the eConnect business objects.

StoredProcedure
A group of Transact-SQL statements compiled into a single execution plan. The business logic for eConnect is contained in stored procedures.

Transaction Requester
The Transaction Requester publishes eConnect XML documents to a queue. The XML documents represent Microsoft Dynamics GP documents. Use the eConnect Requester Setup utility to specify the documents to publish.

Trigger
A special class of SQL stored procedure that executes automatically when an update, insert, or delete statement is issued for a table or view.

XML
A text-based format that uses markup tags (words surrounded by '<' and '>') to describe how a document is structured and the data it contains.
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