

# Installation & System Management: E-Commerce Solutions

**MICROSOFT BUSINESS SOLUTIONS—NAVISION**



# INSTALLATION & SYSTEM MANAGEMENT: E-COMMERCE SOLUTIONS



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## PREFACE

This book is a manual for Microsoft® Business Solutions–Navision®. It is part of a comprehensive set of documentation and Help materials for Navision.

The manual describes how to install and maintain the e-commerce solutions Microsoft Business Solutions–Navision Commerce Portal and Microsoft Business Solutions–Navision Commerce Gateway. However, we recommend that the installation and customization process is carried out with the assistance of a Microsoft Certified Business Solutions Partner representative.

Commerce Portal allows you to access and update data in Microsoft Business Solutions–Navision through the Internet or through an intranet from a Web browser. Commerce Gateway is a business-to-business solution that opens up Navision to the electronic exchange of trading documents with other systems.

You should be familiar with the symbols and typographical conventions used in the Navision manuals. In the list below, you can see how various elements of the program are distinguished by special typefaces and symbols:

Appearance	Element
CTRL	Keys on the keyboard. They are written in small capitals.
<b>Address</b>	Field names. They appear in medium bold and start with a capital letter.
<b><i>Department</i></b>	Names of windows, tables, boxes and tabs. They appear in medium bold italics and start with a capital letter.
<i>Hansen</i>	Text that you must enter, for example: "...enter Yes in this field." It is written in italics.
<code>fin.flf</code>	File names. They are written with the Courier font and lowercase letters.
↑ ↓ ▼ *► ...	The special symbols that can be seen in the windows on the screen.

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## Chapter 1

### Microsoft Business Solutions-Navision Commerce Portal

This chapter introduces you to Commerce Portal features and describes its software and hardware requirements. Furthermore, you can read, among other things, how to install Commerce Portal components, synchronize the demo database and view the demo Commerce Portal Web site.

The chapter contains the following sections:

- Introduction to Microsoft Business Solutions-Navision Commerce Portal
- Hardware and Software Requirements
- Installing Microsoft Business Solutions-Navision Commerce Portal Web Integration Components
- Synchronizing the Demo Database
- Viewing the Commerce Portal Demo Site
- The Commerce Portal Business Desk
- Modifying or Removing Commerce Portal Components

## **1.1 INTRODUCTION TO MICROSOFT BUSINESS SOLUTIONS-NAVISON COMMERCE PORTAL**

Commerce Portal allows you to access and update data in Navision using the Internet or using an intranet from a Web browser. In both cases you use a portal that you can customize for specific business partner roles.

Commerce Portal allows your partners, customers and sales staff to search for relevant role-based information from any source. For example, if a sales representative needs information about customer accounts and sales history, he or she can easily access the most up-to-date information in the Sales and Receivables application area.

Commerce Portal therefore enables you to use Navision to provide a number of Web-based commercial services, such as order processing, self-service data access and notification of events (for example, notification of incoming e-mail).

Navision clients do not have to be dedicated to Commerce Portal – they can run as normal Navision clients. This is because Navision processes all the information requested or created through the Internet/an intranet on your Web portal just as it does any other information.

To read more about Commerce Portal functionality, see the Commerce Portal training course and Navision online Help.

## 1.2 HARDWARE AND SOFTWARE REQUIREMENTS

Before you install the necessary Commerce Portal components, you must make sure that:

- your Commerce Server meets certain hardware requirements.
- you have installed all the necessary software.

When you install Commerce Portal, you can choose to install Commerce Server 2000 or Commerce Server 2002. Installing Commerce Server 2002 will give you improved multinational site support, B2B capabilities, and merchandising functionality. You can read more about the functionality in Commerce Server in Microsoft's documentation of the product.

A description of the requirements follows.

### Hardware Requirements for Commerce Portal when Running Commerce Server 2000

The minimum requirements are as follows:

- Intel® Pentium® 400 MHz
- 256 MB RAM
- 2 GB available hard disk space, NTFS-formatted hard disk volume
- CD-ROM drive
- Network adapter card

### Software Requirements for Commerce Portal when Running Commerce Server 2000

You must install and configure all of the following products before you can run Commerce Portal:

- Microsoft Windows 2000 Server, Service Pack 3  
(Check to make sure that you have installed the components for Microsoft Message Queuing Services.)
- Microsoft Internet Information Server 5.00 (included with Windows 2000 Server)
- Microsoft SQL Server 2000, Service Pack 3 + Analysis Services, Service Pack 3
- Microsoft Internet Explorer 5.5, Service Pack 2
- MSXML 3.0, Service Pack 2
- Microsoft Commerce Server 2000, Service Pack 3
- Microsoft Business Solutions–Navision Database Server 3.70
- Microsoft Business Solutions– Navision Client 3.70
- Microsoft Business Solutions–Navision Application Server 3.70
- Commerce Portal Web Integration Components 3.70

## Hardware Requirements for Commerce Portal when Running Commerce Server 2002

The minimum requirements are as follows:

- Intel Pentium 400 MHz
- 256 MB RAM
- 2 GB available hard disk space, NTFS-formatted hard disk volume
- CD-ROM drive
- Network adapter card

## Software Requirements for Commerce Portal when Running Commerce Server 2002

You must install and configure all of the following products before you can run Commerce Portal:

- Microsoft Windows 2000 Server, Service Pack 3  
(Check to make sure that you have installed the components for Microsoft Message Queuing Services.)
- Microsoft Internet Information Server 5.00 (included with Windows 2000 Server)
- Microsoft SQL Server 2000, Service Pack 3 + Analysis Services, Service Pack 3
- Microsoft Internet Explorer 5.5, Service Pack 2
- MSXML 3.0, Service Pack 2
- Microsoft Commerce Server 2002, Service Pack 1
- Microsoft Business Solutions–Navision Database Server 3.70
- Microsoft Business Solutions– Navision Client 3.70
- Microsoft Business Solutions–Navision Application Server 3.70
- Commerce Portal Web Integration Components 3.70

### Note

.....  
You must install non-localized versions of all the previously mentioned Microsoft products.  
.....

## Information about Installing the Products

**Windows 2000 Server, SQL Server 2000 and Commerce Server 2000 or Commerce Server 2002** See Microsoft's documentation for information about how to install and configure these products. A Navision client running Commerce Portal can also run on Microsoft Windows XP. See Microsoft's documentation for information about this product.

When you install Commerce Server, you must select to run a custom installation including all components except Direct Mailer and Commerce Server Predictor.

**Microsoft Message Queuing Services** If the components for the Message Queuing Services were not installed as part of the Windows 2000 Server installation, you can install them from the Control Panel by selecting Add/Remove Programs, Add/Remove Windows Components. Click the **Message Queuing Services** checkbox, then click Next. The Windows Components Wizard guides you through the installation. If you need further assistance, contact your IT department or system administrator.

**Microsoft Business Solutions Client and Microsoft Business Solutions Server** For installation and setup information, see the manual *Installation & System Management: Microsoft Business Solutions–Navision Database Server*.

**Microsoft Business Solutions Application Server** For further information, see the manual *Installation & System Management: Microsoft Business Solutions–Navision Application Server*.

**Commerce Portal Web Integration Components** See the section called Installing Microsoft Business Solutions-Navision Commerce Portal Web Integration Components on page 14.

## 1.3 INSTALLING MICROSOFT BUSINESS SOLUTIONS-NAVISON COMMERCE PORTAL WEB INTEGRATION COMPONENTS

Before you start to install the Commerce Portal components, check that Navision Application Server can connect to your Navision database on Navision Server. To do so, check the Application Log in the Event Viewer. Microsoft Business Solutions Navision Application Server inserts a Success Audit event if it succeeds in connecting to the database (and inserts an error message if it fails to connect).

You can now install Commerce Portal Web Integration Components. A description of the installation follows.

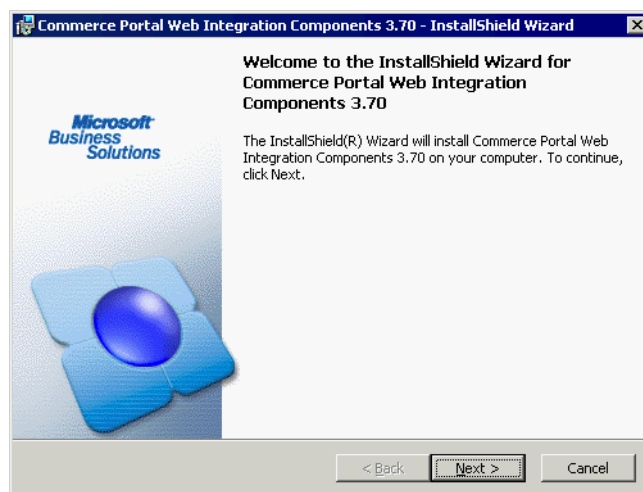
### What are the Commerce Portal Web Integration Components?

The Commerce Portal Web Integration Components consist of:

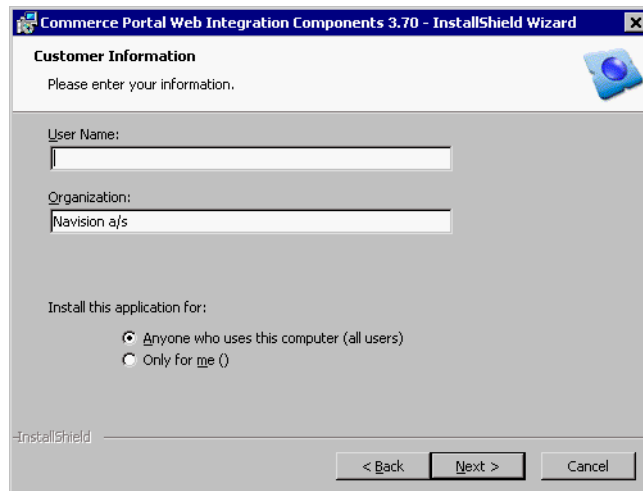
- **Commerce Portal for Commerce Server**  
Installs the Commerce Portal engine on your Commerce Server. It creates several Microsoft Message Queues and a number of Registry entries, which reference these queues. It also installs the Microsoft Business Solutions Commerce Portal Synchronization Service and other components that the synchronization service and the Active Server Page (ASP) documents require.
- **The Commerce Portal PUP Package File**  
Contains Commerce Server settings, SQL Server settings and ASP/HTML pages to enable you to run a demo Web portal.

To install the components, perform the following steps:

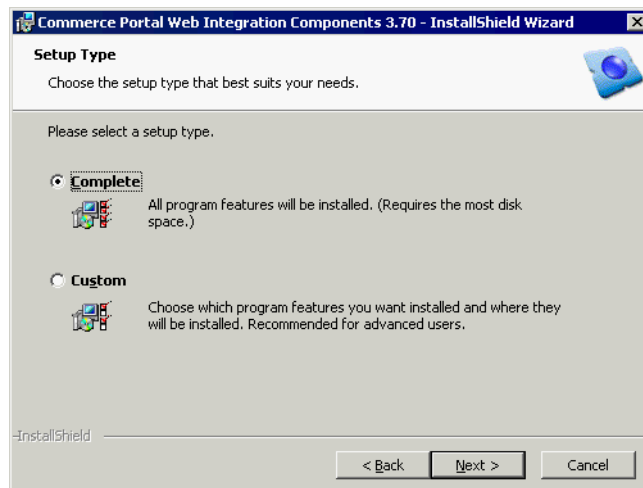
- 1 Double click the `setup.exe` file that is located on the Navision Product CD at the path `\Additional Interfaces\Commerce Portal\Cpwic`. The **Welcome** window now appears:



- 2 In the **Customer Information** window, you enter a user name, such as Administrator, and an organization name. You can also choose to leave these fields blank. You can specify that the application belongs to you, or to anyone who logs onto the computer. This determines who is allowed to access, modify and uninstall the application. It does not determine who is able to log onto the server from a network.

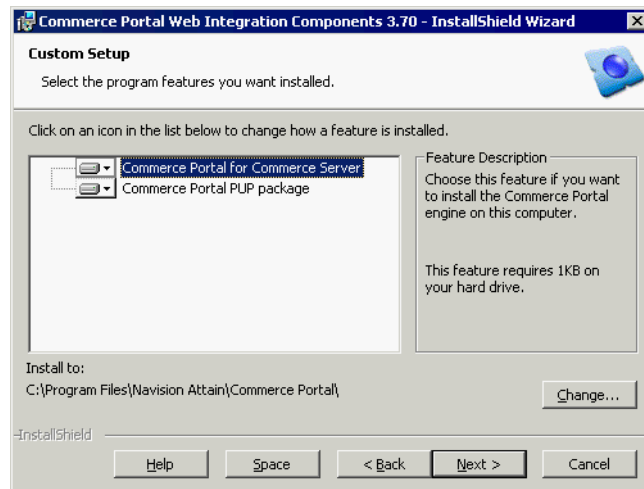


- 3 In the **Setup Type** window, you can choose between two setup types, Complete or Custom:

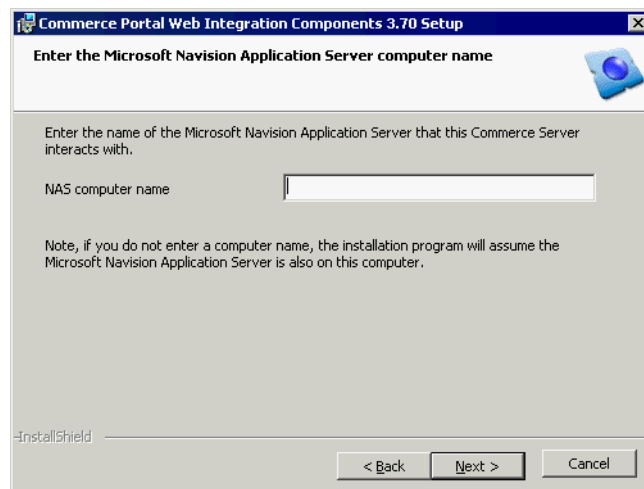


Select Complete to install both Commerce Portal for Commerce Server and the Commerce Portal PUP Package on your computer.

Select Custom to choose which products are to be installed and where:



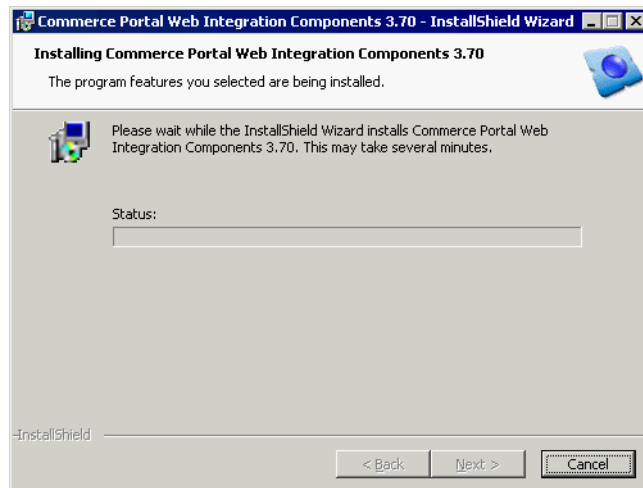
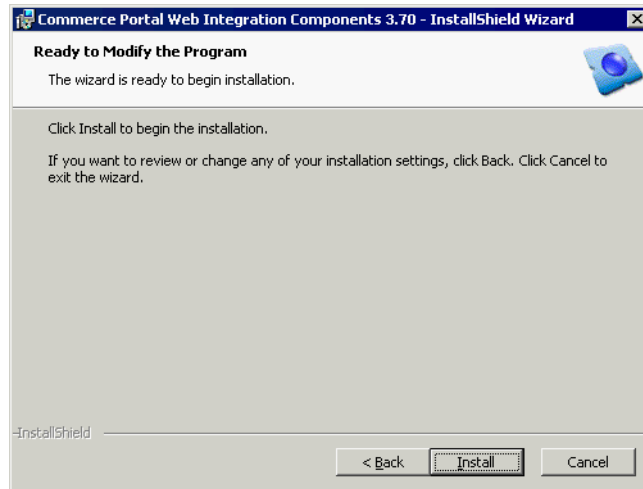
- 4 In the ***Enter the Navision Application Server computer name*** window, enter the name of the Navision Application Server that your Commerce Server communicates with. If you leave this field blank, the installation program assumes that Navision Application Server is also running on this computer.



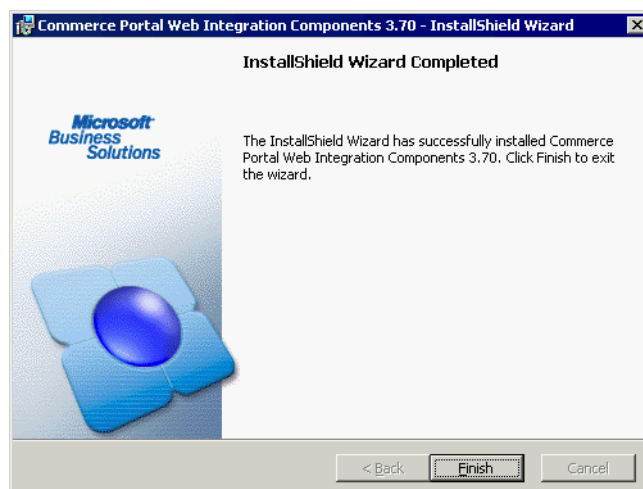


### 1.3 Installing Microsoft Business Solutions-Navision Commerce Portal Web Integration Components

5 In the **Ready to install the Program** window, click Install to start the installation:



6 Click Finish to complete the installation:



Now that the installation is complete, you can unpack the `CommercePortal.pup` package file. Read how to do so in the following section.

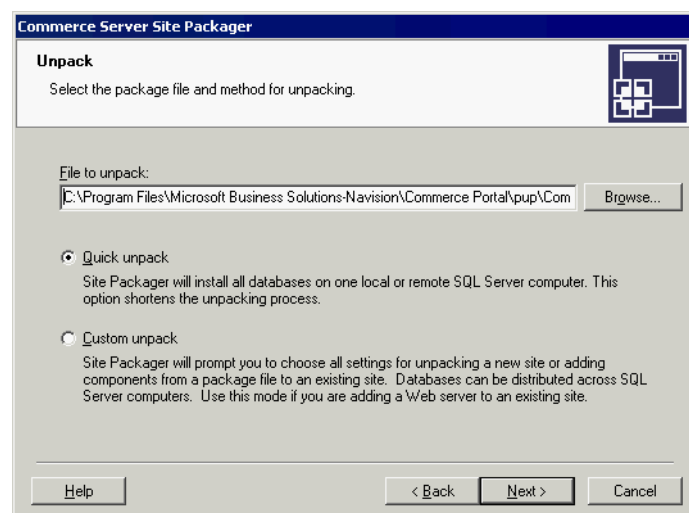
### Unpacking the Commerce Portal PUP Package File

Microsoft Business Solutions a/s provides a `CommercePortal.pup` package file that contains:

- all the data necessary to set up a server site on Commerce Server.
- properties for Commerce Server.
- properties and tables for SQL Server.
- Web pages that are published on your Internet server.

To unpack the file, carry out the following steps:

- 1 In Windows Explorer, browse to the Commerce Portal directory on the local hard disk of the server. The default location of the `CommercePortal.pup` file is `C:\Program Files\Microsoft Business Solutions-Navision\Commerce Portal\pup`. The folder contains two files. Use `CommercePortal2000.pup` if you are running Commerce Server 2000, or use `CommercePortal2002.pup` if you are running Commerce Server 2002.
- 2 Double click on the `CommercePortalXXXX.pup` file, where `XXXX` is the Commerce Server version number. The **Unpack** window appears:

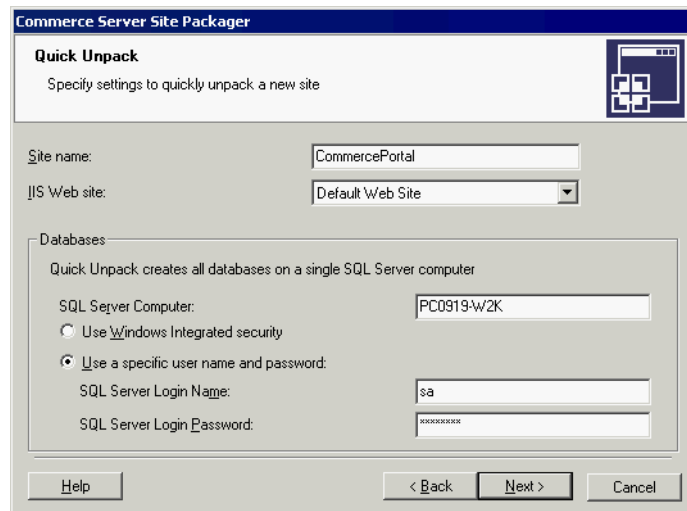


You can choose between the Quick unpack and Custom unpack options:

**Quick unpack:** installs all databases on one local or remote SQL Server computer.

**Custom unpack:** enables you to specify your own settings for unpacking a new site (or adding components from a package file to an existing site). If you select Custom unpack, we recommend that your computer uses English (United States) regional settings.

3 When you select Quick unpack and click Next, the **Quick Unpack** window appears:

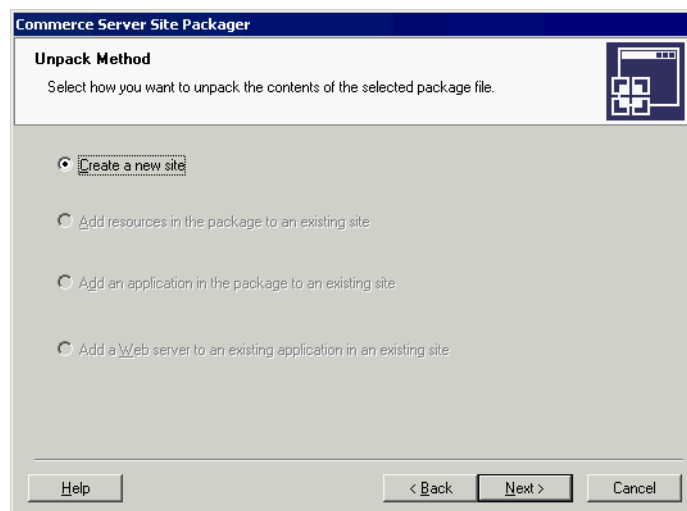


The screenshot shows the 'Commerce Server Site Packager' window with the 'Quick Unpack' tab selected. The window title is 'Commerce Server Site Packager'. The tab is 'Quick Unpack'. Below the tab, it says 'Specify settings to quickly unpack a new site'. There is a 'Site name' field with 'CommercePortal' and a 'JIS Web site' dropdown menu with 'Default Web Site'. Below these is a 'Databases' section with the text 'Quick Unpack creates all databases on a single SQL Server computer'. It has two radio buttons: 'Use Windows Integrated security' (unselected) and 'Use a specific user name and password' (selected). Below the selected radio button are fields for 'SQL Server Computer' (PC0919-W2K), 'SQL Server Login Name' (sa), and 'SQL Server Login Password' (masked with asterisks). At the bottom are 'Help', '< Back', 'Next >', and 'Cancel' buttons.

The name of the computer you are working on is automatically displayed in the **SQL Server computer** field. In the **SQL Server Login Name** field, enter your SQL login ID. In the **SQL Server Login Password** field, enter the appropriate password. Now click Next to unpack the files.

See step 12 for information about the next window, **Data Warehouse**.

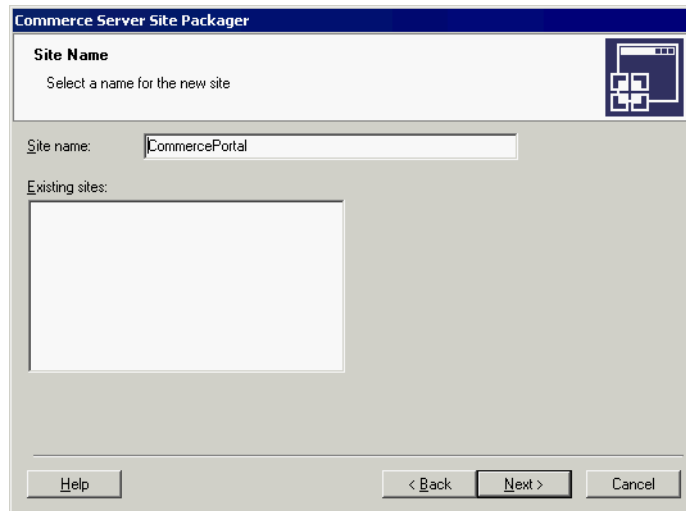
4 When you select Custom unpack and click Next, the **Unpack Method** window appears:



The screenshot shows the 'Commerce Server Site Packager' window with the 'Unpack Method' tab selected. The window title is 'Commerce Server Site Packager'. The tab is 'Unpack Method'. Below the tab, it says 'Select how you want to unpack the contents of the selected package file.' There are four radio buttons: 'Create a new site' (selected), 'Add resources in the package to an existing site', 'Add an application in the package to an existing site', and 'Add a Web server to an existing application in an existing site'. At the bottom are 'Help', '< Back', 'Next >', and 'Cancel' buttons.

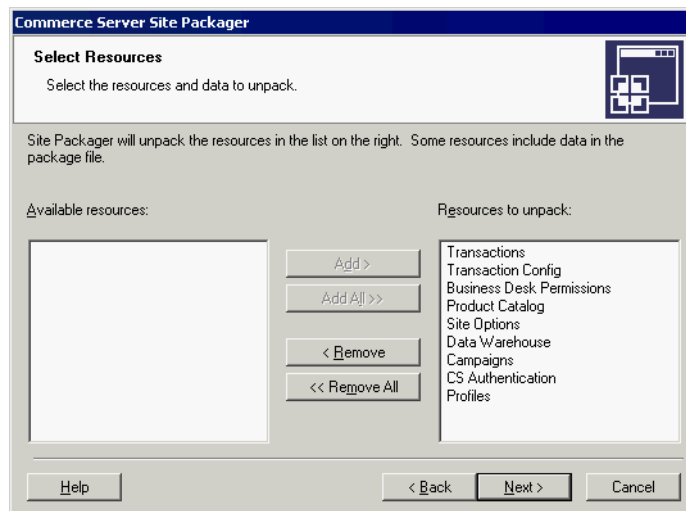
Only the option *Create a new site* is available the first time you carry out the unpacking process.

- 5 When you click Next, the **Site Name** window appears. Enter a name for the new site.



The screenshot shows the 'Commerce Server Site Packager' window with the 'Site Name' tab selected. The window title is 'Commerce Server Site Packager'. Below the title bar, the tab is labeled 'Site Name' with the instruction 'Select a name for the new site'. A text box labeled 'Site name:' contains the text 'CommercePortal'. Below this, a section labeled 'Existing sites:' contains an empty list box. At the bottom, there are three buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

- 6 In the **Select Resources** window, the resources that the Commerce Server Site Packager will unpack are shown in the list on the right. You can add and remove resources from the list.



The screenshot shows the 'Commerce Server Site Packager' window with the 'Select Resources' tab selected. The window title is 'Commerce Server Site Packager'. Below the title bar, the tab is labeled 'Select Resources' with the instruction 'Select the resources and data to unpack.' A note states: 'Site Packager will unpack the resources in the list on the right. Some resources include data in the package file.' The window is divided into two main sections: 'Available resources:' on the left and 'Resources to unpack:' on the right. The 'Available resources:' section contains an empty list box. The 'Resources to unpack:' section contains a list of resources: Transactions, Transaction Config, Business Desk Permissions, Product Catalog, Site Options, Data Warehouse, Campaigns, CS Authentication, and Profiles. Between the two list boxes are four buttons: 'Add >', 'Add All >>', '< Remove', and '<< Remove All'. At the bottom, there are three buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

- 7 In the **Global Resource Pointers** window, you can map global resource pointers to global resources.

**Commerce Server Site Packager**

**Global Resource Pointers**

Map global resource pointers to global resources.

A global resource pointer is created as a Site Resource, but uses the functionality and settings of a corresponding global resource. Select a global resource for each global resource pointer. You can create new instances of some types of global resources during unpacking.

Global resource pointers:

Resource	Maps to global resource
Data Warehouse	(Add new global resource)
CS Authentication	(Add new global resource)
Profiles	(Add new global resource)

Existing global resources:

(Add new global resource)

Help < Back Next > Cancel

- 8 In the **Database Connection Strings** window, you must configure the connection strings for each of the resources that you are unpacking.

**Commerce Server Site Packager**

**Database Connection Strings**

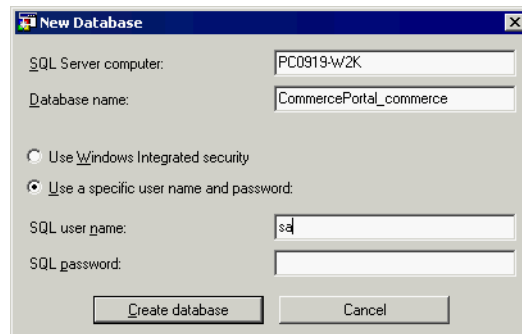
Configure the connection strings for the resources you are unpacking.

Resource	Connection String	Server name	Database name
Business Desk Permissi...	connstr_db_BDSecurity	pc0919-w2k	commerceportal_com...
Profiles	connstr_db_bds	pc0919-w2k	commerceportal_com...
Campaigns	connstr_db_Campaigns	pc0919-w2k	commerceportal_com...
Data Warehouse	connstr_db_dw	pc0919-w2k	commerceportal_dw
Product Catalog	connstr_db_Catalog	pc0919-w2k	commerceportal_com...
Transaction Config	connstr_db_Transacti...	pc0919-w2k	commerceportal_com...
Transactions	connstr_db_Transacti...	pc0919-w2k	commerceportal_com...

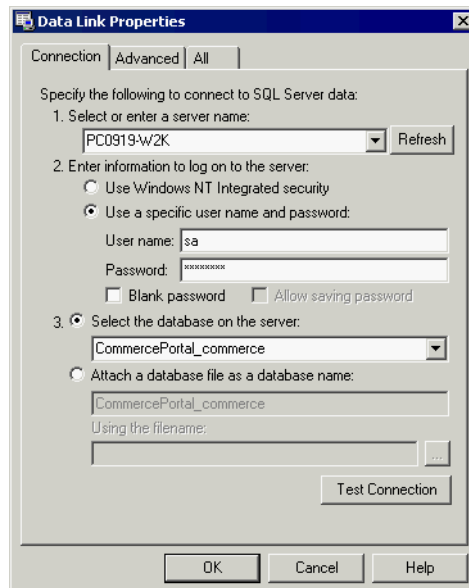
Modify... Defaults Copy Paste New Database...

Help < Back Next > Cancel

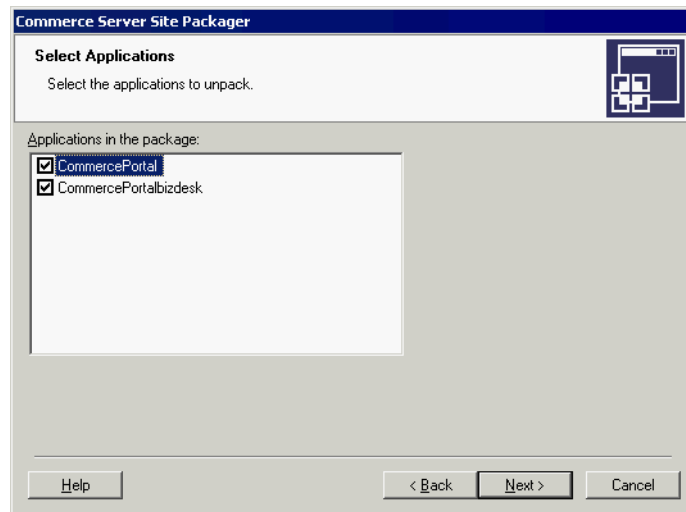
- 9 Create two new databases named commerceportal\_commerce and commerceportal\_dw.



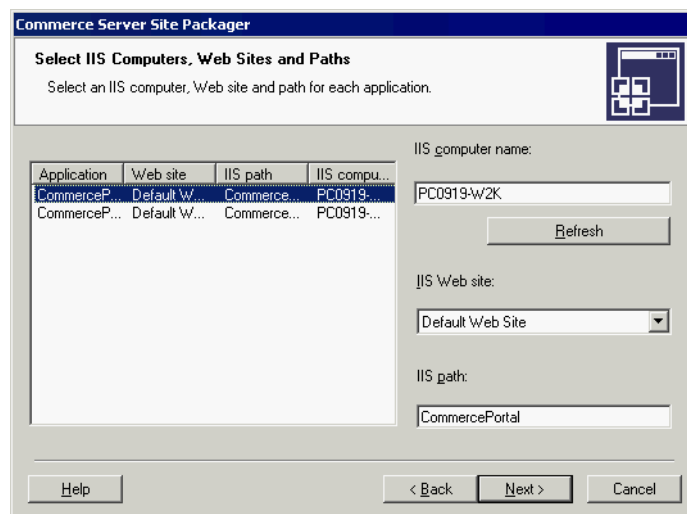
- 10 The **Data Link Properties** window appears where you specify the SQL Server user name and password for your master database. You can also test whether the connection works.



11 In the **Select Applications** window, you can select to unpack the CommercePortal and CommercePortalBizdesk applications.

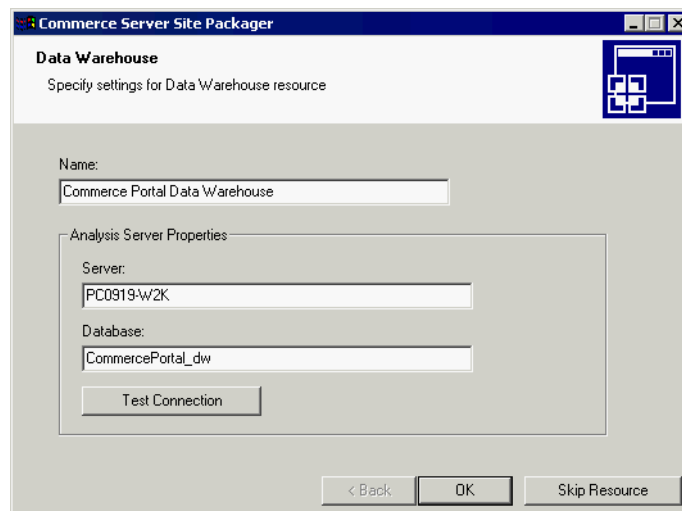


12 In the **Select IIS Web Sites and Virtual Directories** window, you select an IIS Web site and virtual directory for the CommercePortal and CommercePortalBizdesk applications.



When you click Next, the Commerce Server Site Packager begins to unpack the files.

13 The **Data Warehouse** window now appears:



The screenshot shows a Windows-style dialog box titled "Commerce Server Site Packager". Inside, there's a section titled "Data Warehouse" with the subtitle "Specify settings for Data Warehouse resource". A "Name:" label is followed by a text box containing "Commerce Portal Data Warehouse". Below this is a group box labeled "Analysis Server Properties" containing a "Server:" label with a text box "PC0919-W2K", a "Database:" label with a text box "CommercePortal\_dw", and a "Test Connection" button. At the bottom are three buttons: "< Back", "OK", and "Skip Resource".

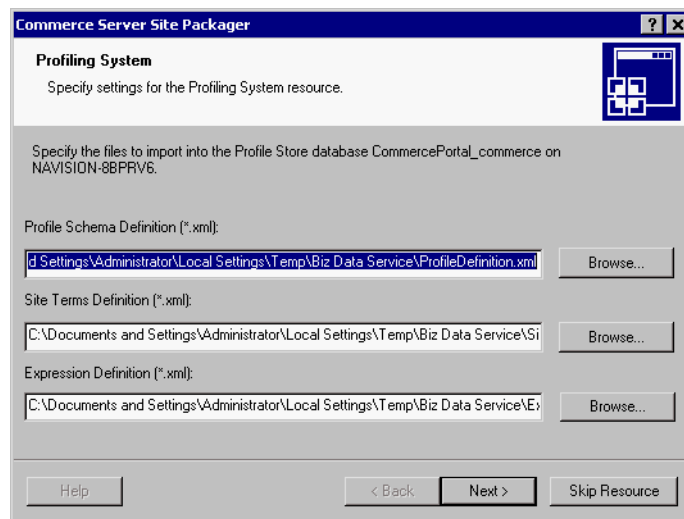
Enter a name for your data warehouse, for example, *Commerce Portal Data Warehouse*. We recommend that you prefix the name of your data warehouse with the name of your site. This will make it easier for you to locate the data warehouse in your SQL database.

Do not change the default server and database names.

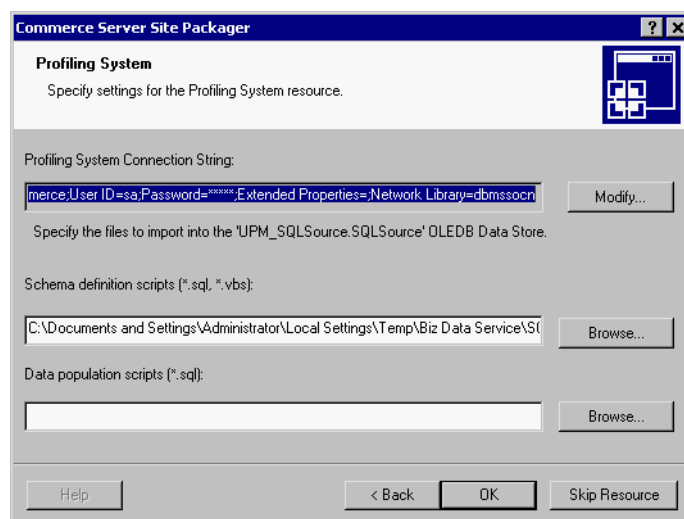


### 1.3 Installing Microsoft Business Solutions-Navision Commerce Portal Web Integration Components

14 In the first **Profiling System** window, accept the default files that will be imported into the Profile Store database:



15 Click Next to open the second **Profiling System** window:



Accept the default path in the **Profiling System Connection String** field and in the **Schema definition scripts (\*.sql, \*.vbs)** field. Leave the **Data population scripts (\*.sql)** field blank. Click OK to continue.

16 When the window displaying the message "The unpacking is complete!" appears, click Finish to complete the installation.

### Installing and Configuring a Navision Application Server Service

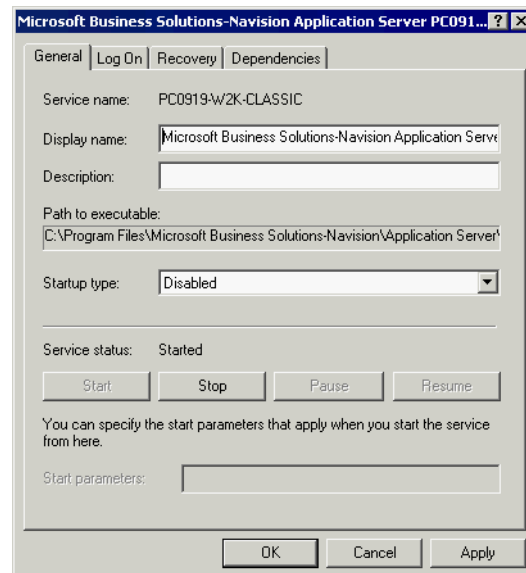
Once you have installed Navision Application Server, you can install a Navision Application Server service for each company in your Navision database that needs the Commerce Portal functionality. During the installation of Navision Application Server, default services for Microsoft Business Solutions–Navision Database Server Server

and SQL Server were created. These services are called "Microsoft Business Solutions-Navision Application Server ServerName-SQL" and "Microsoft Business Solutions-Navision Application Server ServerName-CLASSIC", where "ServerName" is the computer name.

You can remove or disable the Navision Application Server service that you will not be using. Refer to the manual *Installation & System Management: Microsoft Business Solutions-Navision Application Server* for information about how to remove a service.

**Disabling a Service** To disable a service, for example, Microsoft Business Solutions-Navision Application Server ServerName-SQL, do the following:

- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click Microsoft Business Solutions-Navision Application Server ServerName-SQL and select Properties.
- 3 On the **General** tab, in the **Startup type** field, select Disabled. Click OK.



**Installing and Configuring a Service**

You can install and configure a Navision Application Server service by:

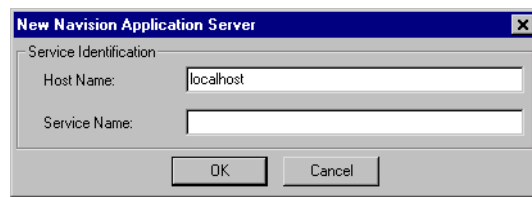
- using the preinstalled service.
- using Navision Application Server.

### Using the Preinstalled Service

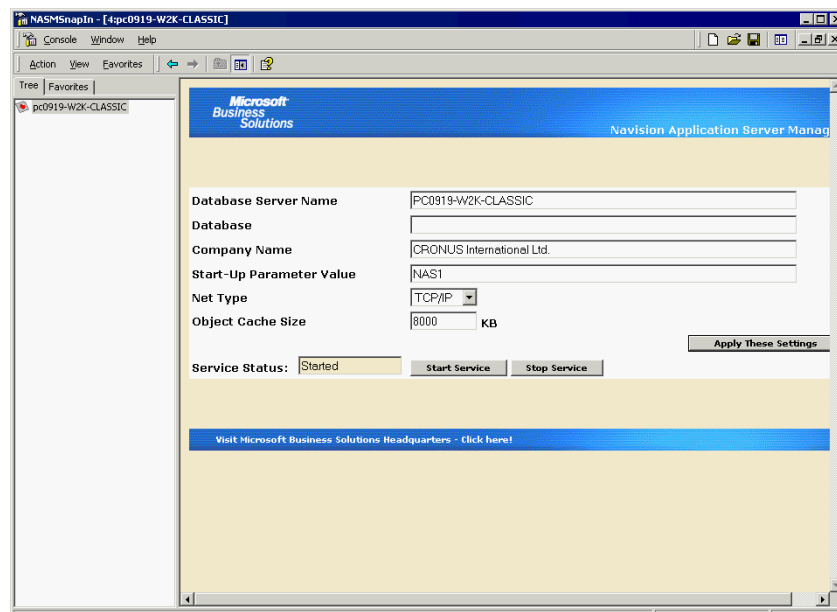
If, for example, you are going to use Navision Database Server, you configure the preinstalled service in the following way:

- 1 On the Start menu, select Programs, Microsoft Business Solutions-Navision, Microsoft Business Solutions-Navision Application Server Manager. The **NASMSnapIn** window appears.
- 2 Under Console Root, right-click Navision Application Server Manager and select New, Application Server. The following window appears:

### 1.3 Installing Microsoft Business Solutions-Navision Commerce Portal Web Integration Components



- 3 In the **Service Name** field, indicate the name of the service that you want to use. In this example, it is "Navision Application Server ServerName-CLASSIC." Click OK.
- 4 Expand Navision Application Server Manager and click "Microsoft Business Solutions-Navision Application Server ServerName-CLASSIC."



- 5 Enter a value for each property. You can read about the properties in the manual *Installation & System Management: Microsoft Business Solutions-Navision Application Server*. The Start-Up Parameter Value property is available for Commerce Portal. You must set it to NAS1.
- 6 Click Start Service.

#### Using Navision Application Server to Install and Configure a Service

Refer to the manual *Installation & System Management: Microsoft Business Solutions-Navision Application Server* for information about how to install and configure a service.

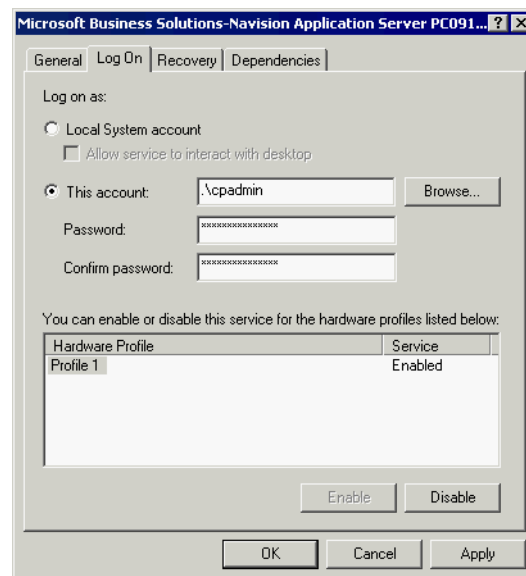
#### Setting up a User Profile for a Navision Application Server Service

For each Navision Application Server service that you have installed, you have to set up a user profile. The names of Navision Application Server services are generated during installation. In the following procedure, we use the service name "Microsoft

Business Solutions-Navision Application Server *ServerName*", where " *ServerName*" represents the name that was used when the service was installed.

To set up a user profile for a Navision Application Server service:

- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click Microsoft Business Solutions-Navision Application Server *ServerName* and click Stop. If the Stop menu item is gray, it means that the service is not running.
- 3 Right-click Microsoft Business Solutions-Navision Application Server *ServerName* again and click Properties.
- 4 Click the **Log On** tab.



- 5 Select the **This account** field.
- 6 In the **This account** field, enter the user name. Make sure that the user is member of the local administrator group. Enter the user's password in the **Password** and **Confirm** password fields. Click OK.
- 7 Right-click Microsoft Business Solutions-Navision Application Server *ServerName* and click Start. The service is now running.

#### Attention

.....  
If you try to view the site now, it may not display correctly. We therefore recommend that you reboot your computer to finalize all the changes and make a full synchronization before you view the site.  
.....

## Summary

At this point, you have installed all of the necessary software. You can now perform a full synchronization of the demo database. Read how to do this in the following section. You can then view the site.

## 1.4 SYNCHRONIZING THE DEMO DATABASE

You must perform a full synchronization of the demo database with Microsoft Business Solutions-Navision Application Server running. A full synchronization of the demo database involves around 7,000 messages. When Navision has completed the synchronization, the synchronization service takes over and starts to process the messages. If the synchronization service is not running, you must start it from Services in the **Computer Management** window.

Once the synchronization service has processed the messages, check your SQL database to see whether tables with the name format **COMMERCE\_<table name>** have been created. Two other – very important – tables should also have been created, **Cronus Catalog\_CatalogProduct** and **UserObjects**. If these two tables have been created and contain data, then the synchronization has been successful.

## 1.5 VIEWING THE COMMERCE PORTAL DEMO SITE

Start a Web browser and browse to the Commerce Portal demo site, `http://pcname/commerceportal`, where `pcname` is your Microsoft Internet Information Server. You should be able to view the site. If you are using the demo database, you should be able to log in as one of the predefined contacts (namely, JOHN ROBERTS/10000(external sales agent), DAVIDHODGSON/10000(partner), MARKHARRINGTON/10000(vendor), CARLANTHONY/10000 (consumer)) and navigate the site. If the system is able to log you in, it means that the two-way communication (ASP-Navision-ASP) is up and running.

## 1.6 THE COMMERCE PORTAL BUSINESS DESK

The Commerce Portal Business Desk is a Web-based site management tool included with Microsoft Commerce Server. You use the Business Desk tool to configure and manage the information on your Web sites. Before you can start using the Business Desk, you must create a directory for the Business Desk files used for Commerce Portal.

### Creating a Business Desk Folder

To create a Business Desk folder for Commerce Portal, follow this procedure:

- 1 Open Internet Explorer.
- 2 In the **Address** field, enter the Internet address for your installation of Commerce Portal Business Desk (for example, *http://ServerName/CommercePortalBizdesk/*) where ServerName is the name of the computer name, and then press Enter.
- 3 The **Browse for Folder** window appears. Browse to the Microsoft Commerce Server folder. Click Create a new directory. The **New Folder** window appears.
- 4 In the **Name** field of the **New Folder** window, enter a name for the new folder. Click OK.
- 5 Browse to the folder that you have just created. Click OK.

You have now created a folder and assigned it to the Business Desk files for Commerce Portal.



## **1.7 MODIFYING OR REMOVING COMMERCE PORTAL COMPONENTS**

You use Windows Installer to modify or remove Commerce Portal Web Integration Components. To do so, open the Control Panel and double-click Add/Remove Programs. The installation wizard guides you from here.



## Chapter 2

### Microsoft Business Solutions-Navision Commerce Gateway

This chapter introduces you to Commerce Gateway and contains information about its software requirements. Furthermore, it describes the installation procedure.

The chapter contains the following sections:

- Introduction to Microsoft Business Solutions-Navision Commerce Gateway
- System Requirements
- Installing Microsoft Business Solutions-Navision Commerce Gateway Request Server
- Specifying Security Settings
- Installing Microsoft Business Solutions-Navision Commerce Gateway Broker

## 2.1 INTRODUCTION TO MICROSOFT BUSINESS SOLUTIONS-NAVISON COMMERCE GATEWAY

The Commerce Gateway solution opens up Navision so that companies can electronically exchange trading documents with their business partners irrespective of each other's conversion requirements and data formats. This exchange of documents means that companies can streamline their business processes and reduce transaction costs. Commerce Gateway also makes it easier for companies to meet the changing demands of their trading partners, regardless of the industry they are in, the system that they use or the standards that their partners require. Commerce Gateway supports the most common trading documents.

The Commerce Gateway solution provides integration with Microsoft BizTalk Server. BizTalk Server is a data and business process integration server, which facilitates e-commerce business processes. It comprises a document interchange engine, a business process execution engine, and a set of business document and server management tools. There are also tools for managing trading partner relationships and tracking transactions.

Commerce Gateway functionality has been added to the Sales & Receivables, Purchases & Payables, and Inventory application areas in Navision. Furthermore, you can access BizTalk administration items from the main menu by clicking General Ledger, Setup, BizTalk.

For more information about Commerce Gateway, see Appendix B, the *Commerce Gateway Training Course* and the Navision online Help.

## 2.2 SYSTEM REQUIREMENTS

Commerce Gateway requires that you install six software products on a Windows platform.

When you install Commerce Gateway, you can choose to install BizTalk Server 2000 or BizTalk Server 2002. BizTalk Server 2002 introduces SEED, a revolutionary new technology for rapidly automating the integration of business partners over the Internet. Furthermore, the support for the traditional EDI formats (EDIFACT and X12) has been improved in BizTalk Server 2002. You can read more about the functionality in BizTalk Server in Microsoft's documentation of the product.

You must also set up certain security information. We strongly recommend that you do these things in the following order:

- 1 Install SQL Server 7.0/2000, Service Pack 3
- 2 Install BizTalk Server 2000 or BizTalk Server 2002, Service Pack 2
- 3 Install Microsoft .NET Framework 1.1
- 4 Install Commerce Gateway Request Server.
- 5 Set up security (Windows 2000/BizTalk Server settings).
- 6 Install the Navision client 3.70.
- 7 Install Navision Application Server 3.70.
- 8 Install Navision Database Server 3.70
- 9 Verify all security settings.

Commerce Gateway can run on either Navision Database Server or on SQL Server. However, even if you only intend to use Navision Database Server, you must still install SQL Server because this is where, for example, the BizTalk Server temporarily stores BizTalk messages. The BizTalk Server is therefore dependent upon the existence of SQL Server.

### Further Information

**Windows Server, SQL Server 2000, BizTalk Server 2000, BizTalk Server 2002 and Microsoft .NET Framework 1.1.** See Microsoft's documentation for information about how to install and configure these products. A Navision client running Commerce Gateway can also run on Microsoft Windows XP. See Microsoft's documentation for information about this product.

**Microsoft Business Solutions–Navision Application Server** For installation and setup information, see the manual *Installation & System Management: Microsoft Business Solutions-Navision Application Server*.

**Navision Client** For installation and setup information, see the manual *Installation & System Management: Microsoft Business Solutions-Navision Database Server*.

The installation procedure that is described in this chapter assumes a one-tier configuration. However, you may, for example, wish to set up Commerce Gateway in a three-tier configuration. For more information, see Appendix B.

## 2.3 INSTALLING MICROSOFT BUSINESS SOLUTIONS-NAVISON COMMERCE GATEWAY REQUEST SERVER

Commerce Gateway Request Server runs as a standard Windows service that uses Microsoft's .NET framework. It acts as a proxy server handling the requests from the Navision client and passes them to BizTalk Server. It then relays the success or failure of the request to Navision.

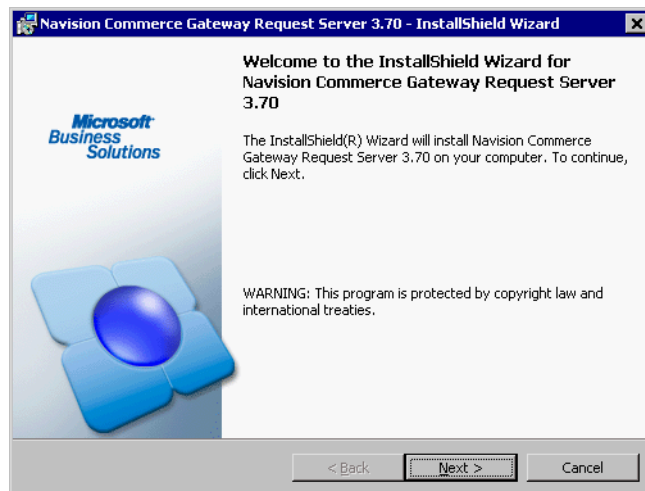
The Commerce Gateway Request Server setup wizard copies the files to the correct destination and install and start the services.

The Commerce Gateway Request Server must be installed on the same computer as BizTalk Server.

### Running the Setup Wizard

To run the Commerce Gateway Request Server setup wizard:

- 1 Double click the `setup.exe` file that is located on the Navision product CD at `\Additional Interfaces\Commerce Gateway\Cgrs`. The **Welcome** window now appears:



In the **Customer Information** window, enter your user name, such as *Administrator*, and company name. You can also leave these fields blank.

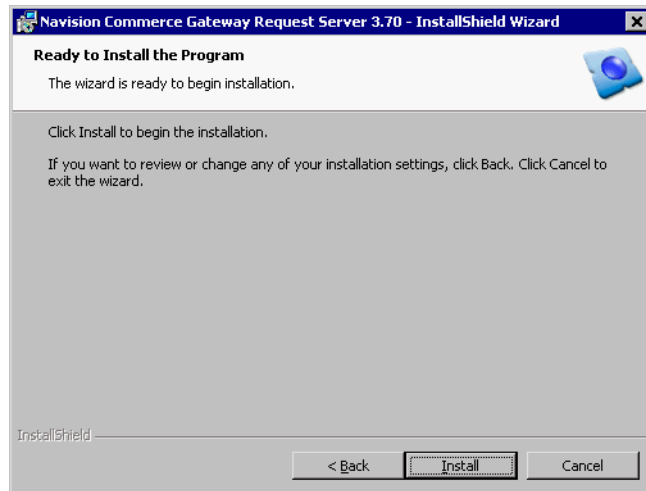
The screenshot shows the 'Customer Information' window of the 'Navision Commerce Gateway Request Server 3.70 - InstallShield Wizard'. The window has a title bar with the text 'Navision Commerce Gateway Request Server 3.70 - InstallShield Wizard' and a close button. Below the title bar, the text 'Customer Information' is displayed, followed by the instruction 'Please enter your information.' There are two text input fields: 'User Name:' and 'Organization:'. The 'Organization:' field contains the text 'Navision a/s'. Below the input fields, the text 'Install this application for:' is followed by two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me ()'. At the bottom of the window, there is a progress bar labeled 'InstallShield' and three buttons: '< Back', 'Next >', and 'Cancel'.

2 In the **Setup Type** window, select Complete.

The screenshot shows the 'Setup Type' window of the 'Navision Commerce Gateway Request Server 3.70 - InstallShield Wizard'. The window has a title bar with the text 'Navision Commerce Gateway Request Server 3.70 - InstallShield Wizard' and a close button. Below the title bar, the text 'Setup Type' is displayed, followed by the instruction 'Choose the setup type that best suits your needs.' There is a text input field labeled 'Please select a setup type.' Below this, there are two radio button options: 'Complete' (which is selected) and 'Custom'. The 'Complete' option is accompanied by a small icon of a computer and the text 'All program features will be installed. (Requires the most disk space.)'. The 'Custom' option is accompanied by a small icon of a computer and the text 'Choose which program features you want installed and where they will be installed. Recommended for advanced users.' At the bottom of the window, there is a progress bar labeled 'InstallShield' and three buttons: '< Back', 'Next >', and 'Cancel'.



- 3 In the **Ready to Install the Program** window, click Install to start the installation of Commerce Gateway Request Server.



- 4 When the installation is complete, the following picture appears:



- 5 Click Finish to exit the setup wizard.

You can now start the service.

## 2.4 SPECIFYING SECURITY SETTINGS

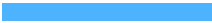
Now that you have installed the Commerce Gateway connectivity components, you can begin to specify the necessary security settings in the following order:

- 1 Create a domain user.
- 2 Add the domain user to the groups Administrators and BizTalk Server Administrators.
- 3 Ensure that the domain user has access to the BizTalk databases.
- 4 Set up a User Profile for the BizTalk Server Interchange Application.
- 5 Set up a user profile for the Commerce Gateway Request Server service.
- 6 Set up user permissions in Navision.
- 7 Install and configure a Navision Application Server service.
- 8 Set up a user profile for a Navision Application Server service.


### Note

.....  
We strongly recommend that you create the same user in the setup of all the security settings.  
.....

### Creating a Domain User

- 
- 1 On the Start menu, click Programs, Administrative Tools, Computer Management.
  - 2 Under System Tools, expand Local Users and Groups.
  - 3 Right-click Users and select New User. You can now create a new domain user. Name it, for example, *BizTalk*.

### Adding the Domain User to the Administrators and BizTalk Server Groups

- 
- 1 While still under Local Users and Groups, click Groups and right-click Administrators. Select Add to Group and add the new domain user to this group.
  - 2 Right-click BizTalk Server Administrators and select Add to Group. Add the new domain user (*BizTalk*) to this group.

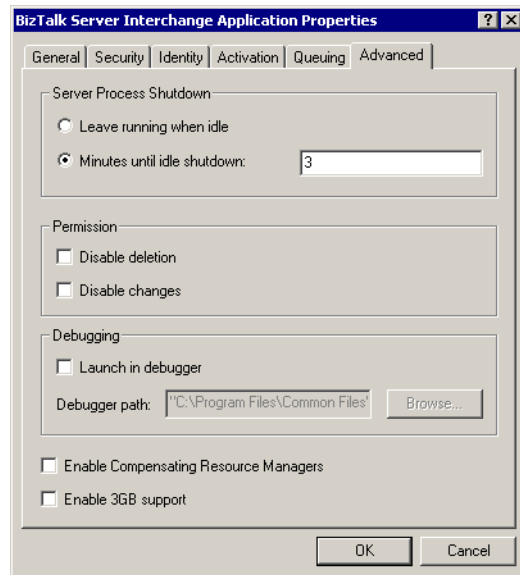
### Ensuring that the Domain User has Access to the BizTalk Databases.

- 
- 1 Make sure that the domain user has access to the BizTalk databases in SQL Server.

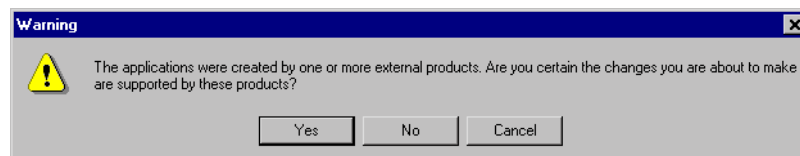
See Microsoft's documentation for information about how to set up a user profile in SQL Server.

### Setting up a User Profile for the BizTalk Server Interchange Application

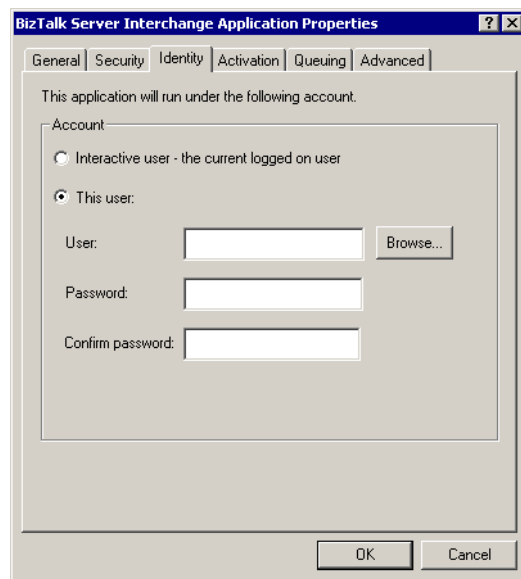
- 1 On the Start menu, click Programs, Administrative Tools, Component Services.
- 2 Double-click Component Services, Computers, My Computer, COM+ Applications.
- 3 Right-click BizTalk Server Interchange Application and click Properties.
- 4 Select the **Advanced** tab.



- 5 Make sure that the **Disable changes** box is not checked. Click OK.
- 6 A warning states that an external product creates the application. Click Yes.



- 7 Right-click BizTalk Server Interchange Application and click Properties.
- 8 Select the **Identity** tab.



9 Select the **This user** field.

10 In the **User** field, enter the name of the user. In the **Password** and **Confirm Password** fields, you must enter the password that you used when you created this user. Click OK.

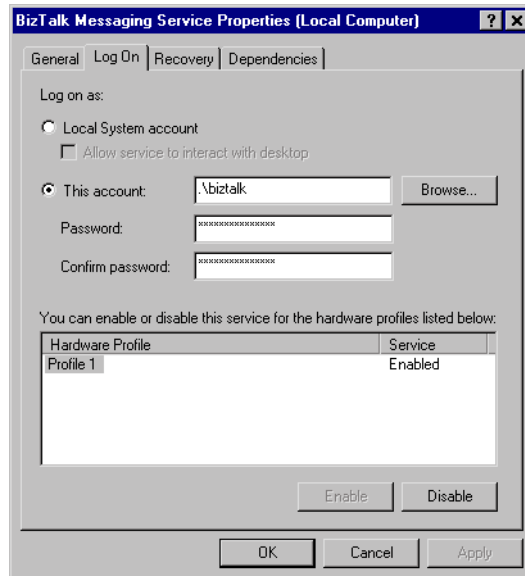
11 The warning appears again. Click Yes.

12 Right-click BizTalk Server Interchange Application and click Shut down. Now click Start. The component will automatically start up with the new settings.

13 To prevent unintentional changes to the component, you must enable the **Disable changes** box again. To do so, right-click BizTalk Server Interchange Application and click Properties. Select the **Advanced** tab and click the **Disable changes** box so that a check mark appears. Click OK. Click Yes when the warning appears.

## Setting up a User Profile for BizTalk Messaging Service

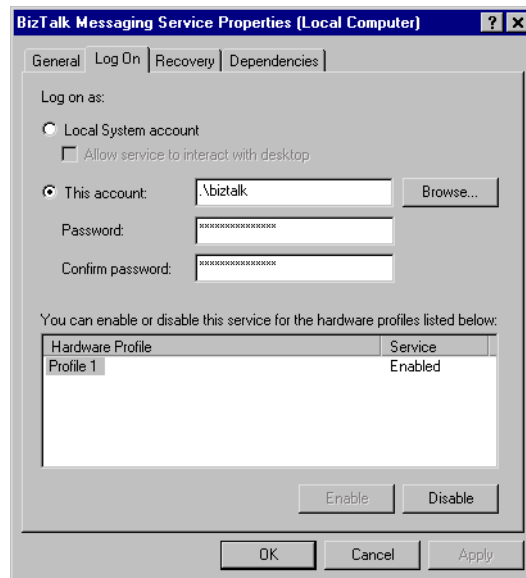
- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click BizTalk Messaging Service and click Stop.
- 3 Right-click BizTalk Messaging Service again and click Properties.
- 4 Click the **Log On** tab.



- 5 Select This account.
- 6 In the **This account** field, enter the name of the user. Make sure that the user is member of the local administrator group. In the **Password** and **Confirm password** fields, enter the password that you used when you created the user. Click OK.
- 7 Right-click BizTalk Messaging Service and click Start.

### Setting up a User Profile for Commerce Gateway Request Server Service

- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click Commerce Gateway Request Server service and click Stop.
- 3 Right-click Commerce Gateway Request Server service again and click Properties.
- 4 Click the **Log On** tab.



- 5 Select This account.
- 6 In the **This account** field, enter the name of the user. In the **Password** and **Confirm password** fields, enter the password that you used when you created the user. Click OK.
- 7 Right-click Commerce Gateway Request Server service and click Start.

### Changing User Profile for BizTalk Server Interchange Application

- 1 On the Start menu, select Programs, Administrative Tools and click Component Services.
- 2 Click Component Services.
- 3 Click Computers.
- 4 Click My Computer.
- 5 Click COM+ Applications.
- 6 Right-click BizTalk Server Interchange Application and click on Properties.
- 7 Select the **Advanced** tab. The following window appears:

- 8 Clear Disable changes and click OK. A warning stating that an external product creates the application will be displayed. Click Yes.
- 9 Right-click on BizTalk Server Interchange Application and click Properties.
- 10 Select the **Identity** tab. The following window appears:
- 11 Select This user.
- 12 In the User field, the name of the user, created during installation of the Request Server, should be entered. The Password and Confirm password fields must match the password that was entered during creation of the user. Click OK. A warning stating that an external product creates the application will be displayed. Click Yes.
- 13 Right-click BizTalk Server Interchange Application and click Shutdown. The component will start automatically with the new setting the next time it is required.
- 14 In order to prevent unintended changes to the component, the Disable changes box should be enabled again. Right-click BizTalk Server Interchange Application and click Properties. Select the **Advanced** tab and select Disable changes. Click OK and Yes when the warning appears.

### Setting up Security in Navision

You must create a Windows login for your user (in this example, biztalk). This user must have the security role of SUPER.

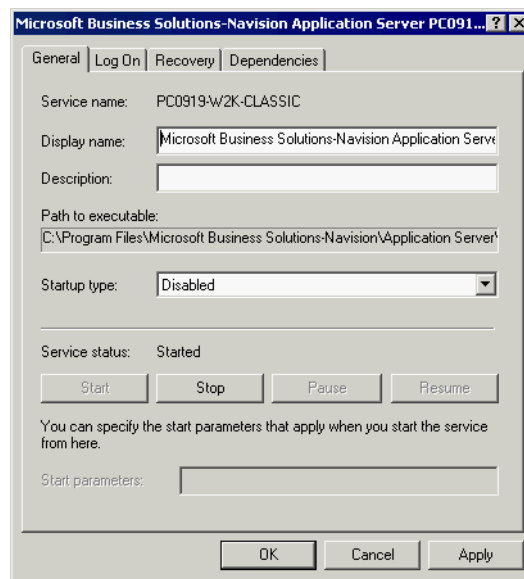
### Installing and Configuring a Navision Application Server Service

Once you have installed Navision Application Server, you can install a Navision Application Server service for each company in your Navision database that needs the Commerce Gateway functionality. During the installation of Navision Application Server, default services for Navision Database Server and SQL Server were created. These services are called "Microsoft Business Solutions– Navision Application Server *ServerName*-SQL" and "Microsoft Business Solutions– Navision Application Server *ServerName*-CLASSIC", where "*ServerName*" is the computer name.

You can remove or disable the Microsoft Business Solutions– Navision Application Server service that you will not be using.

**Disabling a Service** To disable a service, for example, Microsoft Business Solutions– Navision Application Server *ServerName*-SQL, do the following:

- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click Navision Application Server *ServerName*-SQL and select Properties.
- 3 On the **General** tab, in the **Startup type** field, select Disabled. Click OK.



Installing and  
Configuring a  
Service

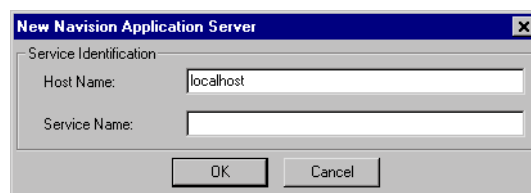
You can install and configure a Navision Application Server service by:

- using the preinstalled service.
- using Navision Application Server.

### Using the Preinstalled Service

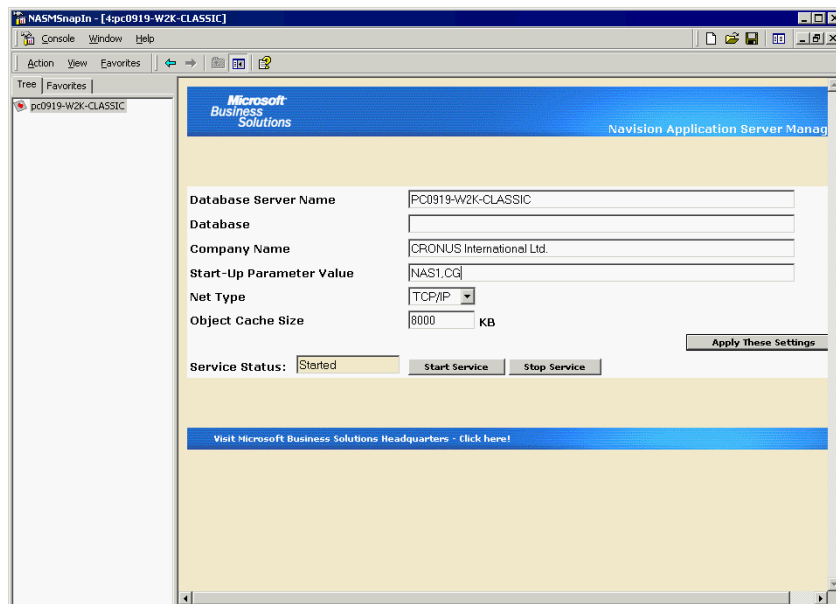
If, for example, you are going to use Navision Database Server, you configure the preinstalled service in the following way:

- 1 On the Start menu, select Programs, Microsoft Business Solutions-Navision, Microsoft Business Solutions-Navision Application Server Manager. The **NASMSnapIn** window appears.
- 2 Under Console Root, right-click Microsoft Business Solutions-Navision Application Server Manager and select New, Application Server. The following window appears:



- 3 In the **Service Name** field, indicate the name of the service that you want to use. In this example, it is "Microsoft Business Solutions– Navision Application Server ServerName-CLASSIC." Click OK.
- 4 Expand Navision Application Server Manager and click "Microsoft Business Solutions– Navision Application Server ServerName-CLASSIC."





5 Enter a value for each property. You can read about the properties in the manual *Installation & System Management: Microsoft Business Solutions– Navision Application Server*. The Start-Up Parameter Value property is used for Commerce Gateway. You must set it to CG.

6 Click Start Service.

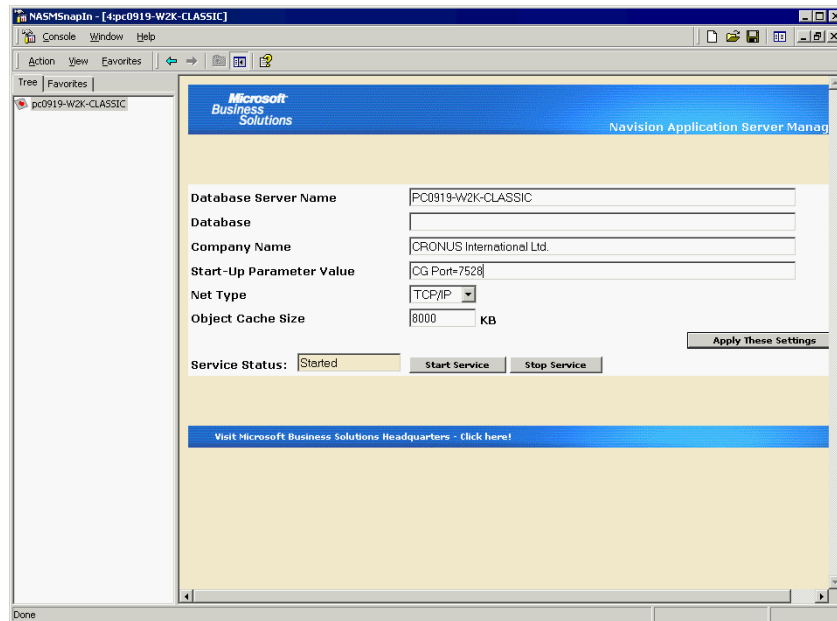
### Installing and Configuring Navision Application Server as a Service

Refer to the manual *Installation & System Management: Microsoft Business Solutions– Navision Application Server* for information about how to install and configure a service.

### Running More Than One Navision Application Server

If you need more than one Navision Application Server to handle your Commerce Gateway communication, you can run several Navision Application Servers on the same computer. You can only do this if you have installed Microsoft Business Solutions-Navision Commerce Gateway Broker to distribute the available Navision Application Servers. When you are running Navision Commerce Gateway Broker, you define the IP address and port number for Navision Commerce Gateway Broker in the Biztalk Management Setup in Navision. Define the port numbers for Navision Application Servers in Navision Navision Application Server Manager in the Start-Up

Parameter Value field. For example, CG Port= 7528 where 7528 represents the number of the receiving port.



Refer to the section *Microsoft Business Solutions– Installing Microsoft Business Solutions-Navision Commerce Gateway Broker* for information about how to install Navision Commerce Gateway Broker.

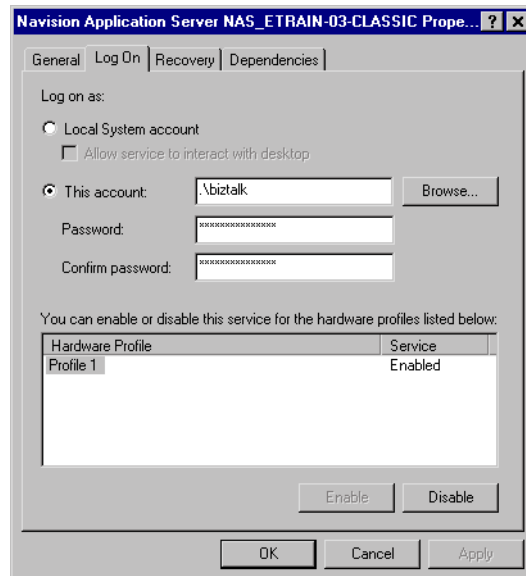
Refer to the manual *Installation & System Management: Microsoft Business Solutions– Navision Application Server* for information about how to install more than one Navision Application Server.

### **Setting up a User Profile for a Navision Application Server Service**

For each Navision Application Server service that you have installed, you have to set up a user profile. The names of Navision Application Server services are generated during installation. In the following procedure, we use the service name "Microsoft Business Solutions– Navision Application Server *ServerName*", where "*ServerName*" represents the name that was used when the service was installed.

To set up a user profile for a Navision Application Server service:

- 1 On the Start menu, select Programs, Administrative Tools, Services.
- 2 Right-click Navision Application Server *ServerName* and click Stop. If the Stop menu item is gray, it means that the service is not running.
- 3 Right-click Navision Application Server *ServerName* again and click Properties.
- 4 Click the **Log On** tab.



- 5 Select the **This account** field.
- 6 In the **This account** field, enter the user name. Enter the user's password in the **Password** and **Confirm** password fields. Click OK.
- 7 Right-click Navision Application Server *ServerName* and click Start. The service is now running.

### Final Security Check

It is extremely important that your security settings are correct. We therefore recommend that you verify that everything has been set up properly. When you have done so, reboot your computer.

## 2.5 INSTALLING MICROSOFT BUSINESS SOLUTIONS-NAVISON COMMERCE GATEWAY BROKER

If you need to run more than one Navision Application Server to handle your Commerce Gateway communication, you must also install Navision Commerce Gateway Broker. Commerce Gateway Broker enables scalability over multiple Navision Application Servers on incoming traffic from Microsoft BizTalk Server. It runs as a Windows service that uses Microsoft's .NET framework.

Commerce Gateway Broker acts as a broker between the Application Integration Component (AIC) and the Navision Application Servers, and between Commerce Gateway Request Server and the Navision Application Server. The broker assigns an available Navision Application Server when one is requested by the AIC or Commerce Gateway Request Server. The broker will send the IP address of the available Navision Application Server to the AIC or Commerce Gateway Request Server. When the AIC or Commerce Gateway Request Server is done sending data, it will tell the broker to mark the Navision Application Server as available.

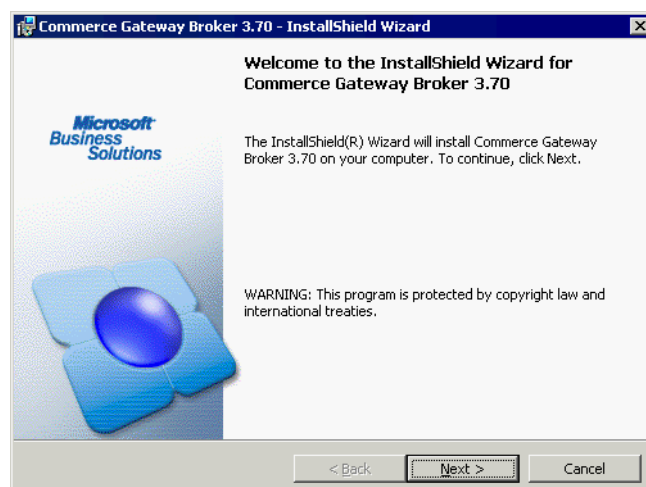
Refer to the manual *Installation & System Management: Microsoft Business Solutions-Navision Application Server* for information about how to install more than one Navision Application Server.

Refer to the section *Running More Than One Navision Application Server* in this manual for information about how to fill in the setup windows when you are running more than one Navision Application Server.

### Running the Setup Wizard

To run the Commerce Gateway Broker setup wizard:

- 1 Double click the `setup.exe` file that is located on the Navision product CD at `\Additional Interfaces\Commerce Gateway\CGBroker`. The **Welcome** window now appears:



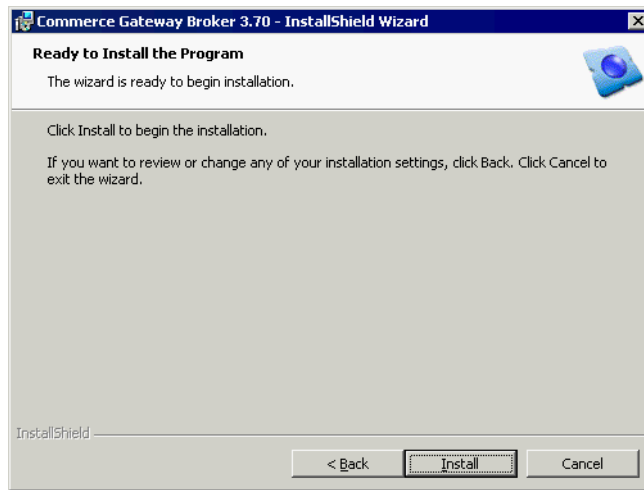
- 2 In the **Customer Information** window, enter your user name, such as *Administrator*, and company name. You can also leave these fields blank.

The screenshot shows the 'Customer Information' window of the 'Commerce Gateway Broker 3.70 - InstallShield Wizard'. The window has a title bar with the text 'Commerce Gateway Broker 3.70 - InstallShield Wizard'. Below the title bar, the text 'Customer Information' is displayed, followed by the instruction 'Please enter your information.' There are two text input fields: 'User Name:' and 'Organization:'. The 'Organization:' field contains the text 'Microsoft Business Solutions'. Below these fields, there is a section titled 'Install this application for:' with two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me ()'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted.

- 3 In the **Setup Type** window, select Complete.

The screenshot shows the 'Setup Type' window of the 'Commerce Gateway Broker 3.70 - InstallShield Wizard'. The window has a title bar with the text 'Commerce Gateway Broker 3.70 - InstallShield Wizard'. Below the title bar, the text 'Setup Type' is displayed, followed by the instruction 'Choose the setup type that best suits your needs.' There are two radio button options: 'Complete' (which is selected) and 'Custom'. The 'Complete' option has a description: 'All program features will be installed. (Requires the most disk space.)'. The 'Custom' option has a description: 'Choose which program features you want installed and where they will be installed. Recommended for advanced users.' At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted.

- 4 In the **Ready to Install the Program** window, click Install to start the installation of Commerce Gateway Broker.



- 5 When the installation is complete, the following picture appears:



- 6 Click Finish to exit the setup wizard.

### Making the AIC Multithreaded

If you are running more than one application server, you need to allow the AIC to handle multiple documents simultaneously, also called multithreading. To make the AIC multithreaded, follow this procedure:

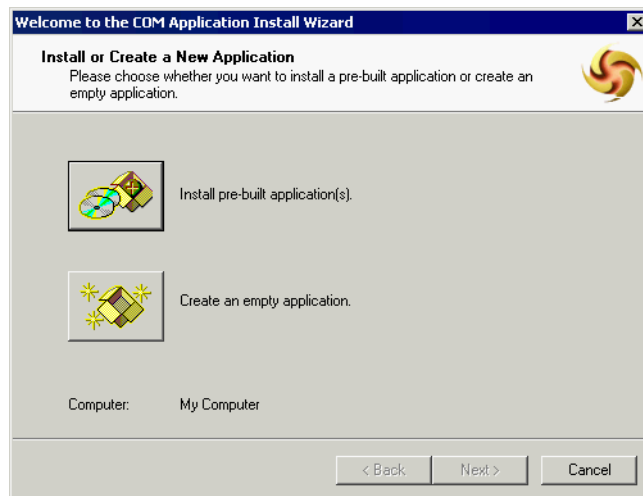
- 1 On the Start menu, select Programs, Administrative Tools, Component Services.
- 2 Under Console Root, select Component Services, Computers, My Computer and COM+ Applications.

- 3 Right click on COM+ Applications, click New and Application. The **Welcome to the COM Application Install Wizard** window appears:

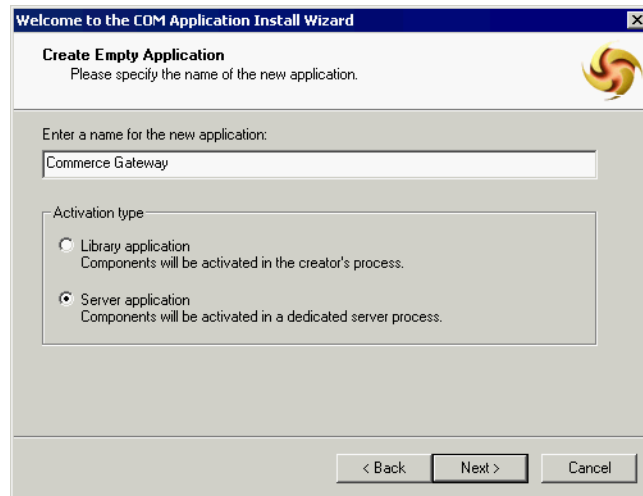


Click Next.

- 4 In the **Install or Create a New Application** window. Select **Create an empty application**.

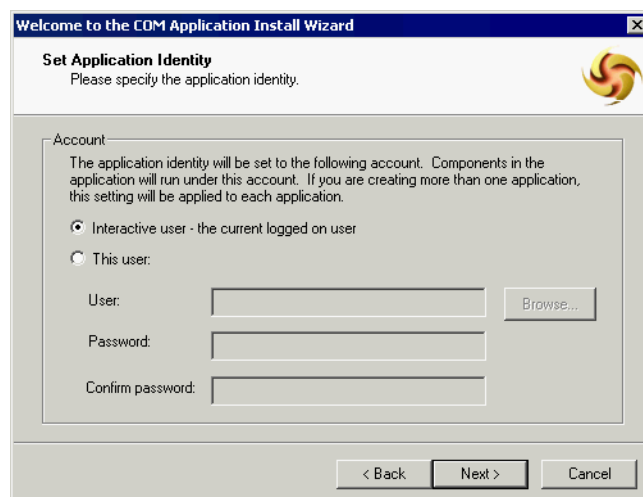


- 5 In the **Create Empty Application** window, in the **Enter a name for the new application** field, enter a name for the new application, for example *Commerce Gateway*.



Click Next.

6 Accept the default setting in the **Set Application Identity** window:

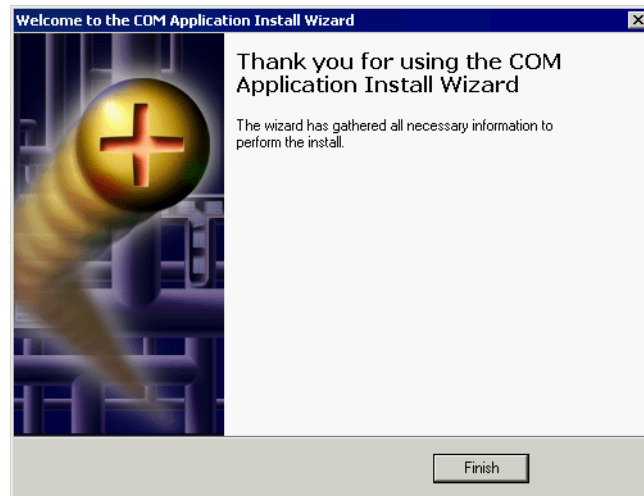


Click Next to create the application.

7 When the application is created, the following picture appears:



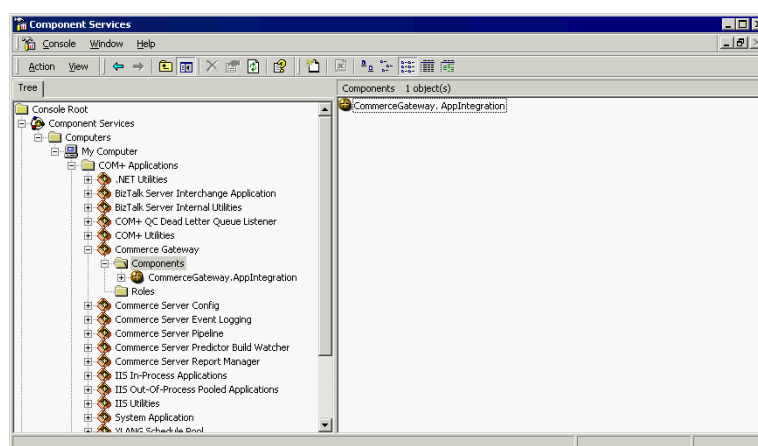
## 2.5 Installing Microsoft Business Solutions-Navision Commerce Gateway Broker



8 Click Finish to exit the wizard.

Finally you must move the CommerceGateway.dll to the application you have just created. The file is located in the C:\Program Files\Microsoft Business Solutions-Navision\Commerce Gateway Request Server folder. Open the folder, and follow this procedure.

- 1 On the Start menu, select Programs, Administrative Tools, Component Services.
- 2 Under Console Root, select Component Services, Computers, My Computer and expand the COM+ Applications folder. Select the application you have just created, in this example *Commerce Gateway*, and open the Components folder.
- 3 Now drag the Commerce Gateway.dll from the C:\Program Files\Microsoft Business Solutions-Navision\Commerce Gateway Request Server folder and drop it in the Components folder.



You must now reboot your computer to finalize the change.

## Adjusting CGBroker\_Config.Xml

Before you start using Commerce Gateway Broker, you must make some adjustments to the CGBroker\_Config.Xml file. You must specify the port number of the broker and make the available Navision Application Servers known to the broker.

The file is located in the C:\Program Files\Microsoft Business Solutions-Navision\Commerce Gateway Broker folder. Open the file, and follow this procedure:

```
- <Settings>
  <PortNumber>7517</PortNumber>
  - <Security>
    <AllowAll Values="Yes/No">Yes</AllowAll>
    <LogIntruders Values="Yes/No">No</LogIntruders>
  - <AllowedIPs>
    <IP>127.0.0.1</IP>
  </AllowedIPs>
</Security>
- <ApplicationServers>
  - <ApplicationServer>
    <Name>NAS</Name>
    <IP>127.0.0.1</IP>
    <PortNumber>7518</PortNumber>
  </ApplicationServer>
</ApplicationServers>
  <RecoveryPoll>5</RecoveryPoll>
</Settings>
```

- 1 In Settings/PortNumber, enter the number of the port that you want Commerce Gateway Broker to be listening to. Make sure that the port number is identical to the number in the **Appln.Srv./Broker Port No.** field in the BizTalk Management Setup in the application.
- 2 You can set Settings/Security/AllowAll Values to Yes or No. If you set it to Yes, the broker will handle the request regardless of the IP address that the request was sent from. If you set it to No, the broker will only accept requests from IP addresses listed in Settings/Security/AllowedIPs/IP.
- 3 Settings/Security/LogIntruders Values is only valid if the value Settings/Security/AllowAll Values is No. If you set Settings/Security/LogIntruders Values to Yes, the intruding IP addresses will be listed in a log file.
- 4 In Settings/Security/AllowedIPs/IP, enter the IP address of the server that contains the Commerce Gateway Request Server. Make sure that the address is identical to the IP address in the **Rqst.Srv. IP Address** field in the BizTalk Management Setup in the application.

- 5 Enter a name for the Navision Application Server in  
`Settings/ApplicationServers/ApplicationServer/Name`, to make the first Navision Application Server known to the broker.
- 6 Enter the IP address of the Navision Application Server in  
`Settings/ApplicationServers/ ApplicationServer/IP`.
- 7 Enter the port number you want the Navision Application Server to be listening to in  
`Settings/ApplicationServers/ ApplicationServer/IP`. Make sure that the number is identical to the port number in the **Start-Up Parameter Value** field the Navision Application Server Manager.

To enter information for the additional Navision Application Servers, you must copy the lines for the first Navision Application Server and paste them into the document. Change the values in the fields mentioned in the above steps to match the values valid for the Navision Application Servers. Make sure to give the application servers unique names.



## Appendix A

### Microsoft Business Solutions-Navision Commerce Portal

This appendix provides background information about the way in which Microsoft Business Solutions-Navision Application Server and Microsoft Business Solutions-Navision Commerce Server communicate with each other. It also identifies some of the key issues you may encounter while working with PUP files.

The appendix contains the following section:

- How Microsoft Business Solutions– Navision Application Server and Commerce Server Interact
- Creating a PUP File
- Uninstalling a PUP File

## A.1 HOW MICROSOFT BUSINESS SOLUTIONS– NAVISION APPLICATION SERVER AND COMMERCE SERVER INTERACT

This section contains background information about how Navision Application Server and Commerce Server communicate with each other.

Your Navision Application Server and Commerce Server computers should now have Registry entries similar to the following:

- *"Job Queue Label"* – for the job message queue on the Microsoft Business Solutions Navision Application Server computer.
- *"Synch Queue Label"* – for the synchronization message queue on the Commerce Server computer.
- *"Error Queue Label"* – for the error message queue on the Commerce Server computer.
- *"Reply Queue Label"* – for the reply message queue on the Commerce Server computer.

Essentially, what this indicates is that the Commerce Server computer sends job messages to the Navision Application Server computer's job message queue. Navision Application Server processes these messages and replies by sending messages to the Commerce Server computer's reply queue.

Further, Navision Application Server sends static data to the SQL database by sending synchronization messages to the Commerce Server computer's synchronization queue. The synchronization service that runs on the Commerce Server computer extracts these messages, deciphers them and carries out the necessary updates on the SQL database. The messages are XML documents, which makes them easy to process and verify.

### Commerce Server PUP Files

In the development phase, you build several PUP files for the same Web site. This appendix identifies some of the key issues you may encounter while working with PUP files.

The first section focus on creating a PUP file for a Commerce Portal solution.

The next section reviews how you uninstall a PUP file from Commerce Server prior to installing a new version of a site.

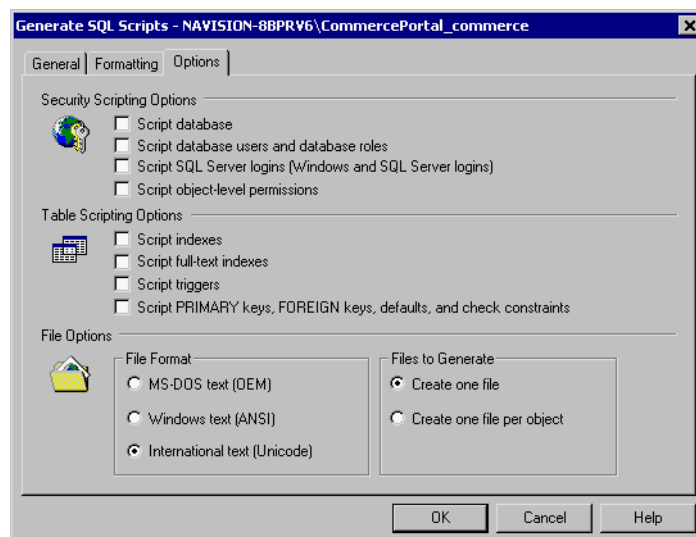
## A.2 CREATING A PUP FILE

In the development phase, you build several PUP files for the same Web site. This section describes how you create a PUP file. Prior to creating the PUP file you need to generate a SQL script based on the **UserObject**, **Addresses**, **BlanketPos** and **OrganizationObject** tables. You then use the Commerce Site Packager delivered with Commerce Server, to create the PUP file.

### Generating the SQL Scripts

Creating a SQL script for the table is straightforward. The steps below guide you through the process.

- 1 Click Option
- 2 To open the Commerce Server Manager, click Start, Programs, Microsoft Commerce Server 2000 and Commerce Server Manager.
- 3 Expand the Microsoft SQL Servers folder.
- 4 Expand the folder for your server (e.g. CommercePortal-SERVER).
- 5 Expand the Databases folder.
- 6 Expand the CommercePortal \_commerce folder and click tables.
- 7 Scroll to the bottom of the right-hand side of the window and right-click the **UserObject** table.
- 8 Click All Tasks, Generate SQL Script... The Generate SQL Script Wizard appears:



The wizard guides you through the process of generating the SQL script.

- 1 On the Option tab, put a checkmark in the **Script indexes**, **Script full-text indexes** and **Script PRIMARY keys, FOREIGN keys, defaults and check constraints** fields. Click OK.
- 2 In the Save As dialog box, enter a name and click the folder that will store the SQL Script. For example `C:\CommercePortal\SQLScripts\UserObject.sql`. Click Save.
- 3 Click Ok when the script has been generated.

Repeat the steps described above for the **Addresses**, **BlanketPOs** and **Organization Object** tables. When you have generated a SQL script for each of the four tables, merge them into one file. Name it, for example, Merged.

The merged SQL script will be included when you create the PUP file.

### Creating a PUP File for Commerce Portal

The tool Commerce Site Packager provided with Commerce Server is used to create a new PUP file of an existing site. The following instructions guide you through the process of creating a PUP file for Commerce Portal.

- 1 To open the Commerce Site Packager, click Start, Programs, Microsoft Commerce Server, Commerce Site Packager.
- 2 In the **Welcome** window, click **Package an existing site** and click Next.
- 3 In the **Site to package** field, click the site you want to package. For example, CommercePortal.
- 4 In the **Package file to create** field enter the path and name of the PUP file you are creating, for example, `C:\CommercePortal\PUP\CommercePortal.PUP`, and click NEXT..

Now the Packager starts to package the site. Shortly thereafter, the screen Profiling System prompts you for the SQL script you generated previously.

In the **Schema definition scripts (\*.sql; \*.vbs)** field enter the path and name of the Merged SQL script. For example, `C:\CommercePortal\SQLScripts\Merged.sql` and click OK.

- 5 When the **Packaging Completed** window appears, click Finish.

Now you have a PUP file containing your new site. The next section describes how you uninstall a PUP prior to installing a new PUP.



## A.3 UNINSTALLING A PUP FILE

Before you reinstall a PUP file, you need to delete the databases, internal references and Web files that the old PUP file created on Commerce Server and on your Internet Information Server (IIS).

There are several areas in the Commerce Server where you need to delete databases and internal references. The order in which you delete these are important, as some databases cannot be deleted until the internal references in Commerce Server have been removed. You must therefore follow the same order as listed in this document.

Most of the deletions must be conducted using the Commerce Server Manager console. This ensures that the references in Commerce Server are removed as well.

The Web site files installed by the old PUP file must also be removed using the Computer Management Console.

### Opening Commerce Server Manager Console

To open the Commerce Server Manager console, click Start, Programs, Microsoft Commerce Server, and Commerce Server Manager.

### Deleting the Analysis Database

Delete the Analysis database using the Commerce Server Manager console. This ensures that the internal references in Commerce Server are removed.

- 1 Open the Analysis Servers and the SQL Server folders to see the list of databases used by the Analysis Server.
- 2 Right-click the database that you want to delete, in this case CommercePortal\_dw, and click Delete.
- 3 Collapse the Analysis Servers folder again.

### Deleting the Commerce Site References

It is important to delete references to continue, otherwise you will not be allowed to delete the Commerce Site before you delete the associated databases and the Global Resources.

- 1 Expand the Commerce Server Manager and the Commerce Sites folders.
- 2 Right-click CommercePortal and click Delete, to delete the internal references in Commerce Server to this site.

### Deleting Global Resources

You need to delete three global resources, Profiles, Authentication and the Warehouse. More specifically, you need to delete:

- Profiles(servername\_ CommercePortal \_commerce)
- CS Authentication(CommercePortal)
- CommercePortal Data Warehouse

For the Warehouse and Profile Global Resources you can verify that you are deleting the correct resources by right-clicking and clicking properties. Here you will find references to CommercePortal.

- 1 Expand the Commerce Server Manager and the Global Resources folders.
- 2 Right-click one of the 3 resources and click Delete. Do the same for the remaining two resources that you need to delete.
- 3 Collapse the Commerce Server Manager folder again.

### **Deleting the Web Sites**

You need to delete two Web sites: CommercePortal and CommercePortalbizdesk. This is a two-step operation. First you delete the references in Commerce Server, then you delete the Web sites from the Web server.

#### **Deleting the internal references to the Web sites**

Expand the Internet Information Services, Server name, Default Web Site folder.

- 1 Right-click the CommercePortal Web site and click Delete.
- 2 Right-click on the CommercePortal bizdesk Web site and click Delete.

This deletes the internal references to the Web sites. The next step is to delete the Web sites from the Web Server.

#### **Deleting the Web sites from the Web Server**

- 1 Refresh the Commerce Server Manager console.
- 2 Right-click the CommercePortal Web site and click Delete.
- 3 Right-click on the CommercePortal bizdesk Web site and click Delete.

Do not close the Computer Management console, as you will use it in the next section.

### **Deleting the Databases**

The final step is to delete the two databases that Commerce Server uses to store information about the CommercePortal Web site. Before you can delete the CommercePortal \_commerce database, you have to stop the Navision Commerce Portal Synchronization service.

- 1 In the Computer Management console, expand the Services and Applications, Services folder.

- 2** Right-click the Navision Commerce Portal Synchronization service and click STOP. Wait for the service to stop.
- 3** In the Commerce Server Manager console, expand the SQL Server Group, Server name, Databases folder.
- 4** Right-click the CommercePortal \_dw database and click Delete.
- 5** Right-click the CommercePortal \_commerce database and click Delete.
- 6** Close the Commerce Server Manager console.
- 7** In the Computer Management console, expand the Services and Applications, Services folders.
- 8** Right-click the Navision Commerce Portal Synchronization service and click START. Wait for the service to start.
- 9** Close the Computer Management console.

**Note**

.....  
The Commerce Server console does not always refresh the view, and therefore it may seem as if the databases were not deleted. If this happens, close the console and open it again to verify that the databases were deleted.  
.....



## **Appendix B**

### **Microsoft Business Solutions-Navision Commerce Gateway**

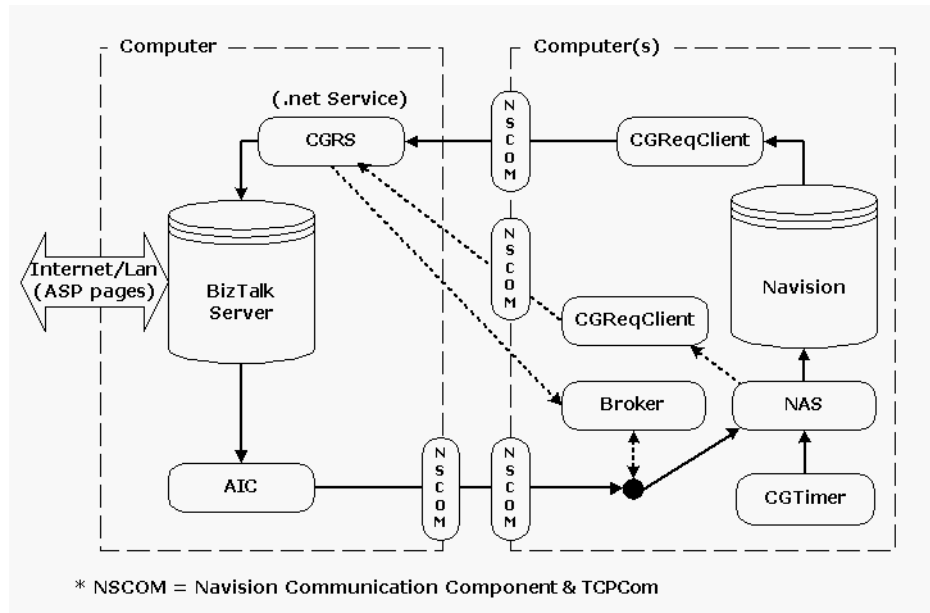
This appendix provides you with supplementary information about Microsoft Business Solutions-Navision Commerce Gateway.

The appendix contains the following section:

- Description of a Three-Tier Configuration
- Configuration of the Microsoft Business Solutions—Navision Commerce Gateway Request Server
- Transaction of Big Documents

## B.1 DESCRIPTION OF A THREE-TIER CONFIGURATION

The following diagram shows Microsoft Business Solutions– Navision Commerce Gateway in a three-tier configuration.



### Abbreviations Used

**AIC** Application Integration Component

The three tiers contain the following components:

- a client containing a Navision client and the Commerce Gateway client components.
- a database server containing either Microsoft SQL Server or Navision Server.
- a number of Microsoft Business Solutions-Navision Application Servers and a Microsoft Business Solutions-Commerce Gateway Broker.
- a BizTalk Server containing BizTalk Server and Commerce Gateway server components.

### Explanation of the Diagram

#### Business Documents are in XML Format

Business documents (from now on referred to as "documents") are delivered to BizTalk Server in XML format. The Navision client generates the XML documents. When Navision Application Server receives a document from the AIC, this document is also in XML format. C/AL™ code running on Navision Application Server validates the XML documents.

### **The Timer Component**

The timer component is installed on both the Navision client and on Navision Application Server. However, it is not used in any client components in the Commerce Gateway product. It is installed to provide timer functionality in C/SIDE® on the client side and to avoid compiler errors in C/AL code that refers to the timer component.

### **The Request Client**

The Request Client is installed on both the client and on Navision Application Server.

### **Why Both a Request Client and a Request Server?**

There is a need for both the Request Client and the Request Server because there are restrictions on Automation objects in C/SIDE that make it impossible to call methods in BizTalk Server directly. The BizTalk Server components contain data types that C/SIDE does not support. The Request Server, which exposes methods with the data types that C/SIDE supports, wraps BizTalk Server components.

The Request Client is used to minimize the network traffic over the TCP/IP connection. When a request is made for more data from BizTalk Server, the data is transferred to the Request Client in one round trip and kept there. The Navision client can now ask the Request Client for the data in several calls without putting load on the network.

### **The Application Integration Component (AIC)**

The AIC is normally only activated by BizTalk Server. However, it can also be activated from the Request Server component when a system check is initiated from the Navision client.

The purpose of the AIC is to deliver documents, which have been received by BizTalk Server, to Navision Application Server. This is done by instantiating a special component, the Navision TCP Communication Component (TCPCom).

The documents delivered to Navision Application Server are XML documents that include the following information:

- Company name of the receiving company.
- Partner ID of the receiving partner in Navision.
- Document name.
- Schema name.
- The received document.
- The schema of the received document.

If an error occurs in the AIC or in Navision Application Server, the error is written to the event log using the EventLog class. An error is raised to BizTalk Server, which then deals with the error according to the configuration.

### **AIC to Navision Application Server Document Transfer**

It is not within the scope of this appendix to explain the transfer of documents from the AIC to Navision Application Server. For more information, see the manual *Installation & System Management: Microsoft Business Solutions– Navision Application Server*. The transfer of documents is more complex and involves more technologies than the diagram implies.

### **Sending Requests from the Navision Client**

The Navision client can send a number of different requests to BizTalk Server. The Request Client receives the requests and forwards them to the Request Server. The Request Server activates the necessary components in BizTalk Server and sends the requested information and/or the result back to the Request Client. The Request Client then forwards the information to the Navision client. "Create organization and messaging port on BizTalk Server" is an example of a request that the Navision client can send.

If you have the need to send big documents, for example product catalogs with thousands of items, you can set up your system as described in the section B.3 *Transaction of Big Documents*.

### **The Task Table for Microsoft Business Solutions-Navision Application Server**

The request is stored in the task table Navision Application Server, for example if BizTalk Server does not respond to a request. Navision Application Server checks the task table at specified intervals. If it finds a request, Navision Application Server sends it to the Request Client on BizTalk Server.

### **Receiving Documents**

When BizTalk Server receives a document from a business partner, the AIC is activated. The AIC wraps the received document with information from BizTalk Server, such as document specification, partner ID and document name. The AIC asks the broker for an available application server. The broker assigns an application server and marks it as busy. The AIC then forwards the document to the assigned Navision Application Server using TCPCom. Once the application server has handled the document, the AIC provides the broker with information about the transaction and the application server is marked as available.

If an error occurs in Navision Application Server while it is validating the document, the error is reported back to the AIC. The AIC informs the broker that the application server is available and writes a message to the Application Log in the Event Viewer using the CGEventLog component. It also informs BizTalk Server of the error. Your BizTalk Server setup determines how the error is handled. Normally, the failed document is placed in the retry queue in BizTalk Server. The document is then delivered to the AIC after a specified amount of time.

If an error occurs while delivering a document to the application server, for example if the application server doesn't respond, the AIC reports this to the broker and the application is marked unavailable. Subsequently the broker starts polling the status



from the application server until it is made available. The rest of the error handling is described above.

**Errors Occurring in the Request Server**

If an error occurs in the Request Server, a message is written to the Application Log or the error code is returned to the client. If the error concerns the network or reading the CGRS\_Config.xml document a message is written in the Application Log. All other types of errors is returned to the client.

## B.2 CONFIGURATION OF THE MICROSOFT BUSINESS SOLUTIONS– COMMERCE GATEWAY REQUEST SERVER

Communication from Navision to Commerce Gateway Request Server is sent in XML documents via TCP/IP socket communication. You can adjust the security settings of the Commerce Gateway Request Server by making changes to the CGRS\_Config.xml document which is located in the same directory as the executable request server files.

### Configuration

The CGRS\_Config.xml document defines the following information:

Field	Comment
<b>Port Number</b>	Specify the address of the port to which the Commerce Gateway Request Server must listen.
<b>AllowAll</b>	Specify if the request server must accept all incoming XML documents or not. <b>Yes:</b> Commerce Gateway Request Server accepts all incoming XML documents. <b>No:</b> Only XML documents sent from an IP-address included in <b>AllowedIPs</b> field will be accepted by the request server.
<b>LogIntruders</b>	If you have entered <i>No</i> in the <b>AllowAll</b> field, specify if the XML documents received from IP addresses not included in the CGRS_Config.xml document must be logged in the application log. <b>Yes:</b> The event is logged in the application log. <b>No:</b> The event is not logged in the application log.
<b>AllowedIPs</b>	If you have entered <i>No</i> in the <b>AllowAll</b> field, specify in this field the IP server.
<b>DumpDocuments</b>	Specify whether the documents will be dumped to the disk or not. <b>Yes:</b> The document will be dumped to the directory defined in the <b>DumpPath</b> field. <b>No:</b> The document will not be dumped.
<b>DumpPath</b>	Specify the path to the directory where the documents are saved.
<b>DocSizeImmediateReply</b>	Specify at what size of document the request server must switch from sending the tracking ID to the client when it has passed the document on to BizTalk Server to sending a message as soon as it has received the document. You can read more about this in the section <i>Transaction of Big Documents</i>

## B.3 TRANSACTION OF BIG DOCUMENTS

When you send an XML document from Navision client to BizTalk Server, the transaction of the document can be handled in two different ways determined by the size of the document. You can decide what the threshold value must be based on your need to work on the client at the same time as the document is transferred.

When you send an XML document smaller than the threshold value, the client is locked until it receives a tracking ID from Commerce Gateway Request Server (CGRS). The tracking ID is sent to the client when CGRS has passed the document on to BizTalk Server. The client will unlock and be available for new tasks.

If you send an XML document bigger than the threshold value, CGRS sends a message back to the client as soon as it has received the document, without waiting for the document to be passed on to BizTalk Server. The client will then unlock and be available for the next task without waiting for the document to be fully delivered to BizTalk Server. This way you can continue your work on the client immediately after sending the XML document. When the document is fully delivered to BizTalk Server, the CGRS sends the tracking ID number to Navision Application Server which will pass it on to Navision Database Server.

By default, the threshold value is set to 50000 bytes. You can change this in CGRS\_Config.XML under Settings/Thresholds/DocSizeImmediateReply:

```
- <Settings>
  <PortNumber>7527</PortNumber>
  - <Security>
    <AllowAll Values="Yes/No">Yes</AllowAll>
    <LogIntruders Values="Yes/No">No</LogIntruders>
  - <AllowedIPs>
    <IP>127.0.0.1</IP>
  </AllowedIPs>
  </Security>
- <Debug>
  - <RequestDocuments>
    <DumpDocuments Values="Yes/No">No</DumpDocuments>
    <DumpPath>C:\CGRS_DocLog\Request</DumpPath>
  </RequestDocuments>
  - <ResponseDocuments>
    <DumpDocuments Values="Yes/No">No</DumpDocuments>
    <DumpPath>C:\CGRS_DocLog\Response</DumpPath>
  </ResponseDocuments>
  </Debug>
- <Thresholds>
  <DocSizeImmediateReply>50000</DocSizeImmediateReply>
</Thresholds>
</Settings>
```

You can read more about how the information in CGRS\_Config.XML is defined in section B.2 *Configuration of the Microsoft Business Solutions– Commerce Gateway Request Server*



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