

Installation & System Management: Microsoft® Business Solutions–Navision® Application Server

MICROSOFT BUSINESS SOLUTIONS–NAVISON

**INSTALLATION & SYSTEM MANAGEMENT:
MICROSOFT[®] BUSINESS SOLUTIONS—NAVISION[®]
APPLICATION SERVER**

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PREFACE

This manual is part of a comprehensive set of documentation and Help materials for Microsoft® Business Solutions–Navision®. It describes how to install and maintain Microsoft Business Solutions–Navision Application Server, which handles the exchange of documents between Navision and external services, such as a CRM product. We recommend, however, that the installation and customization process is carried out with the assistance of a Microsoft Certified Business Solutions Partner representative.

The Navision manuals use certain symbols and typographical conventions. 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.
Address	Field names. They appear in medium bold and start with a capital letter.
<i>Department</i>	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

Getting Started with Navision Application Server

This chapter describes Navision Application Server and explains the installation and maintenance procedures. You can also read how to run more than one Navision Application Server at a time.

The chapter contains the following sections:

- Navision Application Server
- Installing Navision Application Server
- Maintaining Navision Application Server
- Running More Than One Navision Application Server
- Navision Application Server Authentication

1.1 NAVISION APPLICATION SERVER

Navision Application Server is a middle-tier server, which executes business logic without user intervention. With Navision Application Server, it is possible to communicate with external services.

Navision Application Server acts as a client towards a database server and can act as a server for other services.

When you start Navision Application Server, it opens a predefined database and executes C/AL™ code in a predefined codeunit.

To understand more about how Navision Application Server communicates with external services, see *Development Guide for Communication Components* (online Help).

No User Interface

Navision Application Server is able to run without displaying anything on a screen and therefore requires no user interaction. This means, of course, that the user will not get any error messages. Instead, these are logged in the Event Viewer. However, the user can interact with Navision Application Server through the Navision Application Server Manager.

For information about message logging, see page 23.

For information about the Navision Application Server Manager, see page 20.

1.2 INSTALLING NAVISION APPLICATION SERVER

We provide a Windows Installer package. You use the setup program to install, maintain and remove a Navision Application Server. Windows Installer registers Navision Application Server as a service as well as an event source. When the installation has finished, you have the option to start up Navision Application Server through the Navision Application Server Manager.

Cancelling the Installation

You can cancel the installation at any time. Windows Installer will then restore your computer to the state it was in before the installation process began.

Preconditions and System Requirements

License Files

Before you start the installation process, you need to be aware of certain preconditions and system requirements. Once these are met, the installation can start.

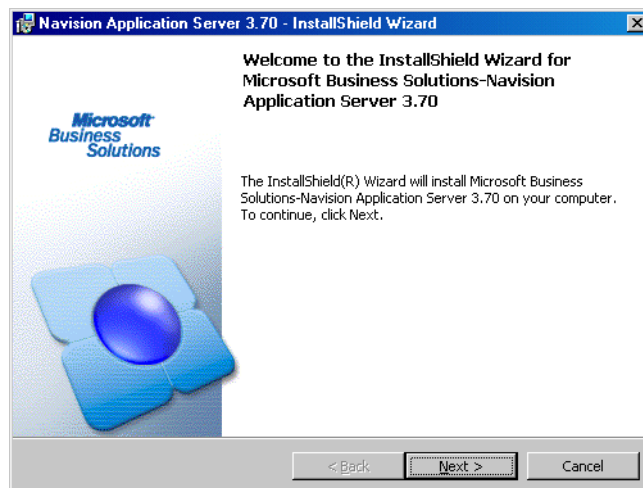
A precondition for running a Navision Application Server is that you have a valid license file installed on your computer that contains the Navision Application Server granule. For information about license files, see chapter 1 in the manual *Installation & System Management: Microsoft Business Solutions–Navision Database Server*.

Make sure that Microsoft Windows XP, Windows 2000 or Windows NT is installed on the computer on which you will be running Navision Application Server. If this is not the case, you must install the correct operating system before installing Navision Application Server. The computer must have at least 64 MB RAM.

Starting the Installation

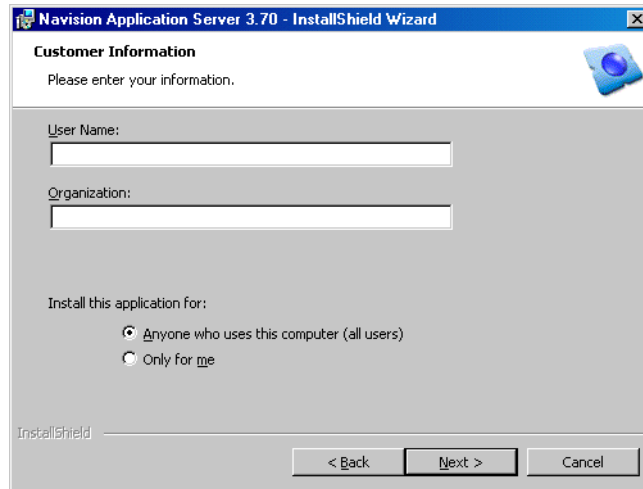
When you start the setup program, Windows Installer checks whether a Navision Application Server is already installed. If it finds an existing installation, the **Program Maintenance** window appears. For more information about this window, see page 9.

If a Navision Application Server is not already installed, the setup program will continue, and the installation wizard starts. The following window appears:



Customer
Information

To continue the installation, click Next. The **Customer Information** window appears:

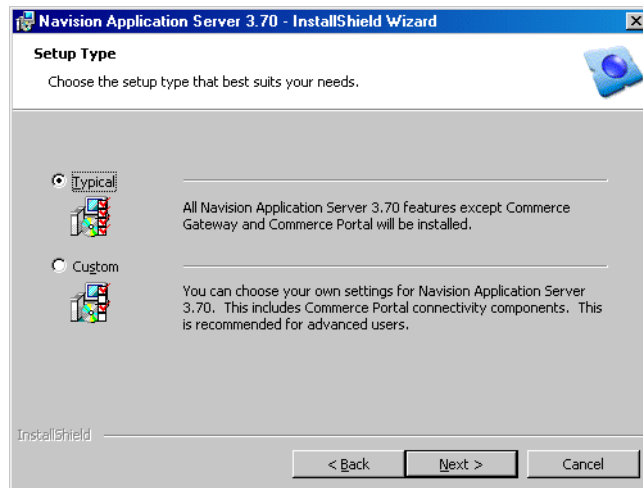


The screenshot shows the 'Customer Information' window of the Navision Application Server 3.70 - InstallShield Wizard. The window has a title bar with the text 'Navision Application Server 3.70 - InstallShield Wizard'. Below the title bar, the text 'Customer Information' is displayed, followed by the instruction 'Please enter your information.' There are two text input fields: 'User Name:' and 'Organization:'. Below these 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 are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

Your name and the name of your organization appears automatically in this window. You can also specify to whom this installation belongs. You can select the person who installed it or any user who logs onto this computer. This determines who is allowed to modify or uninstall it. It does not determine who is able to use the program from this computer.

Selecting the
Installation Type

Click Next. The **Setup Type** window appears:



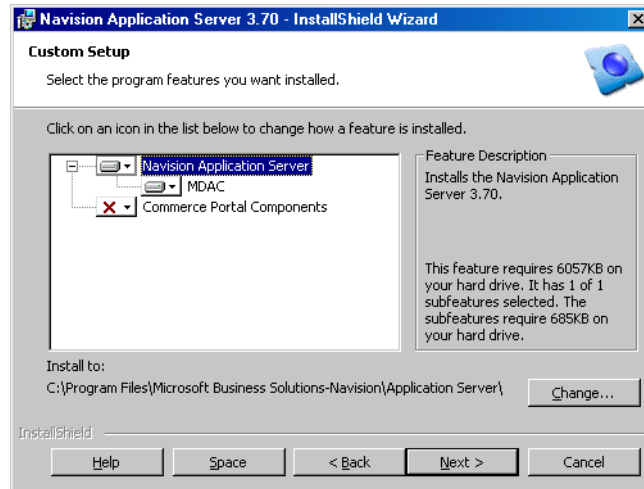
The screenshot shows the 'Setup Type' window of the Navision Application Server 3.70 - InstallShield Wizard. The window has a title bar with the text 'Navision Application Server 3.70 - InstallShield Wizard'. Below the title bar, the text 'Setup Type' is displayed, followed by the instruction 'Choose the setup type that best suits your needs.' There are two radio button options: 'Typical' (which is selected) and 'Custom'. Each option has a small icon to its left. To the right of the 'Typical' option, the text reads: 'All Navision Application Server 3.70 features except Commerce Gateway and Commerce Portal will be installed.' To the right of the 'Custom' option, the text reads: 'You can choose your own settings for Navision Application Server 3.70. This includes Commerce Portal connectivity components. This is recommended for advanced users.' At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

In the **Setup Type** window, you can select a typical installation or a custom installation.

- Select Typical to install all Navision Application Server settings.
- Select Custom to choose your own settings. Furthermore, you can change the default destination for the Navision Application Server program files. The custom setup type also enables you to select Commerce Portal connectivity components. For information about these components, see the manual *Installation & System Management: E-Commerce Solutions*.

Customized
Installation

If you select Custom, the **Custom Setup** window appears:



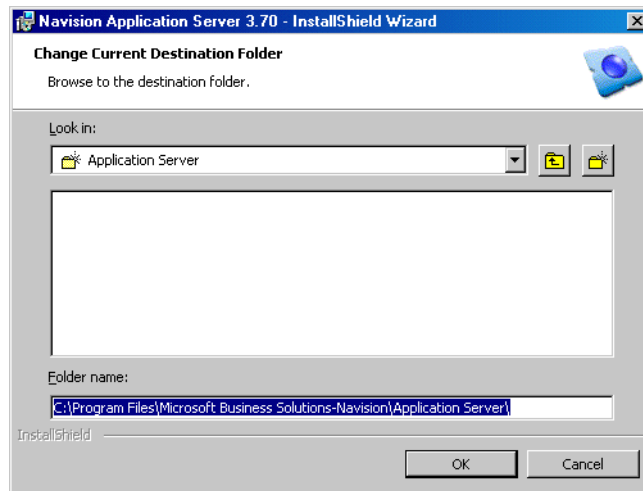
This is where you select the features that you want to install. The window is divided into three sections:

- A feature selection area.
- A feature description area that displays a short description of a feature when you select it. It also displays an estimate of how much disk space the feature requires.
- An installation destination folder that tells you where the feature will be installed. If you want to install, for example, Navision Application Server in a different folder, click Change.

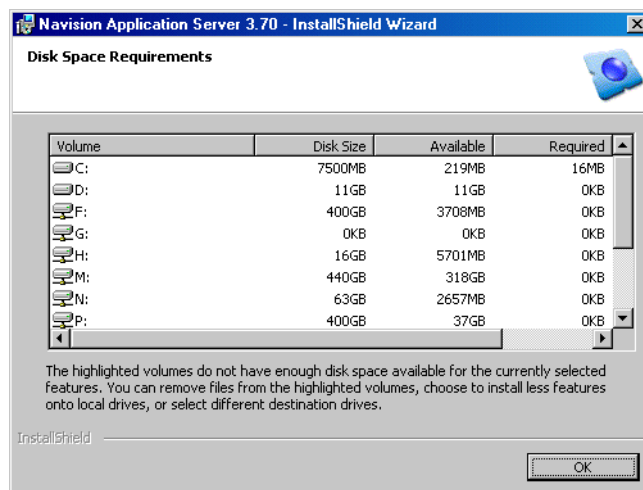
Note

.....
 Microsoft Data Access Components (MDAC) are installed by default. These operating system components facilitate access to data in a Navision database with third-party tools. The components are primarily used with the Microsoft Business Solutions–Navision SQL Server Option.

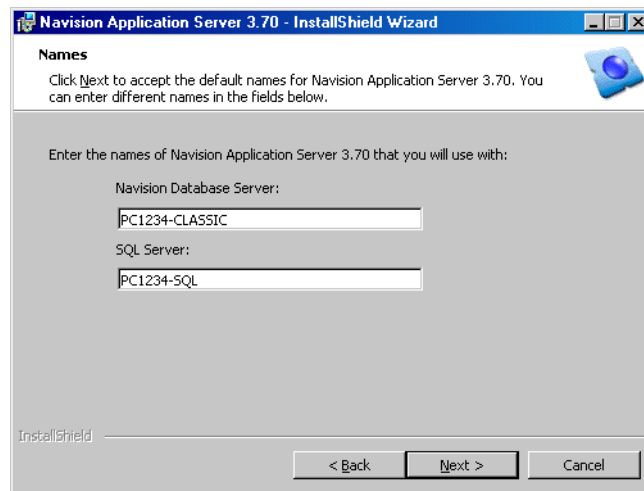
If you click Change, the **Change Current Destination Folder** window appears:



If you click Space in the **Custom Setup** window, the following window appears, which informs you of how much space is available on the various drives to which you have access:



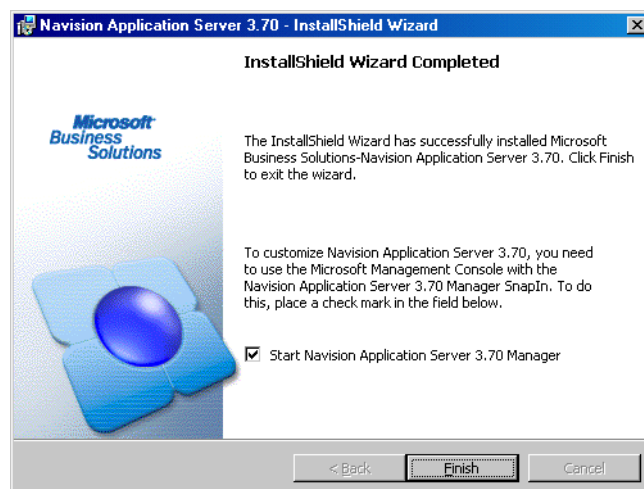
Naming the Navision Application Server Click Next in the **Custom Setup** window. The **Names** window now appears:



You can either accept the default names shown for Navision Application Server – for use with Navision Database Server and SQL Server – or you can enter different names. By default, the installation program will select the name that your computer has in the network. If the name you select already exists, a window appears asking you to rename the server.

If you selected Typical in the **Setup Type** window, the installation uses your computer name as the server name. If this name already exists, it will add #1 at the end of the computer name. If this name also exists, it will try with #2, and so on. For example, if the computer name is *MyComputer515* and this server name already exists, the installation will try *MyComputer515#1*.

When you click Next, the installation is ready to begin. Click Install in the **Ready to Install the Program** window. When the installation is finished, the following window appears to inform you that the installation has been completed successfully:



Chapter 1. Getting Started with Navision Application Server

Installation Complete In this window, you can choose to finish the installation or finish the installation and continue with the customization of Navision Application Server. To customize Navision Application Server, place a check mark in the **Start Navision Application Server 3.70 Manager** field and click Finish. See page 20 for information about the Navision Application Server Manager.

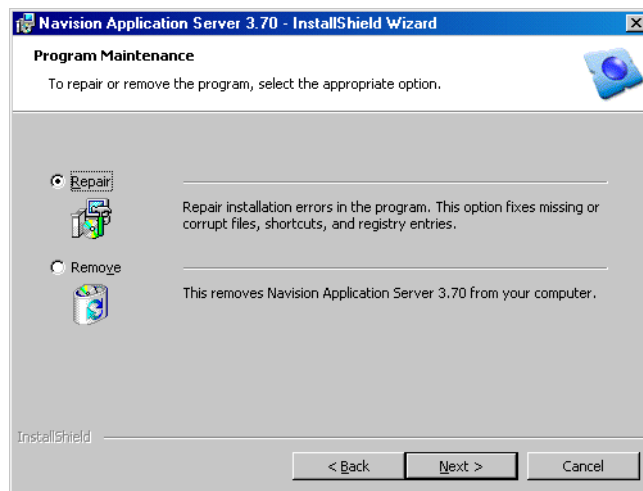
1.3 MAINTAINING NAVISION APPLICATION SERVER

Attention

.....
 We recommend that you make a backup of any license files, databases and database backups that are stored locally before repairing or removing the server installation.

You can use Windows Installer to repair and remove a Navision Application Server. To do so, follow this procedure:

- 1 Open the Control Panel and double-click the Add/Remove Programs icon.
- 2 Select Navision Application Server.
- 3 Click Add/Remove (for Windows NT) or Change (for Windows 2000/Windows XP). The Installation Wizard opens.
- 4 Click Next. The **Program Maintenance** window appears:



In this window, you can choose to repair or remove Navision Application Server.

Repairing the Installation

If you select *Repair*, the **Ready to Repair the Program** window opens. Click Install to fix any installation errors such as missing or corrupt files. Windows Installer will protect any license files and database backups. It will therefore not overwrite these files if you have to repair the installation. When Navision Application Server has been repaired, the **Installation Complete** window appears.

Removing the Installation

If you select *Remove*, a **Ready to Remove the Program** window appears. Click Remove to uninstall the product.

You can cancel the removal process at any time. If you do so, Windows Installer returns the computer to the state it was in before you started the removal process.

When you remove Navision Application Server, everything will be removed except any license files (.flf except for *cronus.flf*), database files (.fdb) and database

backup files (.fbk) that are stored locally. If you want to remove these files, you will have to do so manually.

When Navision Application Server has been removed, a window appears to inform you that it has been removed successfully.

Losing the Server Connection

If Navision Application Server for some reason loses its connection to Navision Database Server, either accidentally (for instance, due to network problems) or due to maintenance (for example, the shutting down of a database server), the lost connection will not cause Navision Application Server to stop. Instead, Navision Application Server will attempt to connect to the server at regular intervals.

1.4 RUNNING MORE THAN ONE NAVISION APPLICATION SERVER

You can run more than one Navision Application Server with the same database or with different databases. However, Windows Installer can only install one Navision Application Server on each computer. This is because Windows Installer checks for other Navision Application Server installations when installing. In other words, only one installation can be completed with the Windows Installer. To install more than one Navision Application Server, you must copy all files that belong to the previously installed Navision Application Server to another target folder. The files that you have to copy depends on whether you are using Navision Database Server or SQL Server.

- When running Navision Application Server with Navision Database Server, you must copy the following files: `nas.exe`, `cronus.flf`, `fin.etx`, `fin.stx`, `dbm.dll` and `slave.exe`.
- When running Navision Application Server with SQL Server, you must copy the following files: `nassql.exe`, `cronus.flf`, `fin.etx` and `fin.stx`.

After copying the necessary files, you must use the Microsoft DOS command line to install Navision Application Server as a service and set the necessary parameters.

1.5 NAVISION APPLICATION SERVER AUTHENTICATION

The user cannot use database authentication when logging on to Navision Application Server. The user will always be logged on to Navision Application Server as the current Windows user, using Windows authentication. When Navision Application Server is running as a service, the user's account can be specified in the **Services** window, which you access by clicking Control Panel, Administrative Tools, Services.

To be allowed to gain access to or modify a database, the user has to be added to the **Windows Logins** window in the Navision client. To do this, click Tools, Security, Windows Logins.

For more information about security issues, see the manual *Installation & System Management: Microsoft Business Solutions—Navision Database Server*.

Chapter 2

Navision Application Server Setup

This chapter describes how to set up and manage Navision Application Server. There is also a description of how to log messages.

The chapter contains the following sections:

- Navision Application Server Setup Properties
- Setting Navision Application Server Properties
- Managing Navision Application Server
- Message Logging

2.1 NAVISION APPLICATION SERVER SETUP PROPERTIES

When starting up Navision Application Server, you must provide start up parameters to control how you want Navision Application Server to work. The following table lists the properties that you can set at start up:

Property	See page
Application Server Name	14
Server Name	15
Database	15
Company	16
Startup Parameter	16
Object Cache	17
Net Type	17
Install as Service	18
Uninstall as Service	18

Application Server Name - Name of Navision Application Server

Program Property	Purpose	Where Specified	Default Value	Value
appservername	Specifies which Navision Application Server is starting up.	Command line: appservername= <appservername>	AppServer	Navision Application Server name

You use the *appservername* program property to specify the name of a Navision Application Server. You only have to set the properties for a Navision Application Server once. The program remembers the information the next time you run it.

EXAMPLE

Run a Navision Application Server from the command line:

```
>nas appservername=nas1, servername=srv1, company="Cronus International Ltd.", startupparameter=p
```

Navision Application Server with the name *nas1* starts running. When stopped and restarted, you only need to type in the following:

```
>nas appservername=nas1
```

Server Name - Choosing the Database Server

Program Property	Purpose	Where Specified	Default Value	Value
servername	Specifies which server to connect to.	Command line: <code>servername= <servername></code>	None	Database Server name

You use this program property to specify the database server that Navision Application Server will connect to. A Navision Application Server that uses Navision Database Server works without a specified database server name (that is, it can run directly on the database). However, if a Navision Application Server uses SQL Server, you must specify the server name.

You can set up the connection to the database server on the command line by entering the name of the server after `servername=`.

Database - Selecting a Database File

Program Property	Purpose	Where Specified	Default Value	Value
database	Specifies which database to open. A Navision Database Server can only have one database open at a time.	Command line: <code>database= <databasename></code> In a client/server installation, this only works in combination with <code>servername=</code>	None	Name of database (including path if database is not located in Microsoft Business Solutions–Navision folder).

You use the database program property to make Navision Application Server start up with a particular database open.

If Navision Application Server is running with Navision Database Server and the database server name is specified, then this property is not used, or it will be overruled by the server name property. If the database server name is unspecified, then you must specify the database name in order for Navision Application Server to

start up. Navision Database Server can only work with one database at a time. If you specify another database, then the program generates an error message.

When running Navision Application Server with SQL Server, you must specify both properties.

On the command line that starts Navision Application Server, type the name of the database immediately after `database=`.

Company - Selecting a Company

Program Property	Purpose	Where Specified	Default Value	Value
company	Specifies which company to open.	Command line: <code>company=</code> <code><companyname></code>	CRONUS International Ltd.	Company name

You use this program property to specify which company will automatically open when Navision Application Server starts running. You must specify this property to enable Navision Application Server to start up.

Startup Parameter - Starting the Application Server

Program Property	Purpose	Where Specified	Default Value	Value
startupparameter	Starts up Navision Application Server.	Command line: <code>startupparameter</code> <code>=<parameter></code>	Has no value	Text selected by the user.

This parameter is passed to the codeunit trigger, which is always executed when Navision Application Server starts up (codeunit 1, trigger 99). The parameter is in the form of a string that has a maximum length of 1024 characters. This trigger is not defined in the standard application. Interpretation of the string is the responsibility of the C/AL programmer. If you do not supply the parameter, the Navision Application Server startup procedure fails.

Object Cache - Improving Response Time

Program Property	Purpose	Where Specified	Default Value	Value
objectcache (KB) (clients only)	Makes the program run faster.	Command line: <code>objectcache=<cache size></code>	8,000 KB	More than 0 KB and less than 1,000,000 KB.

The Object Cache property increases the speed of Navision Application Server. Objects, such as codeunits and tables that are used on the Navision Application Server computer, are stored in the object cache. This means that the Navision Application Server computer only needs to retrieve these objects once from the server, and then they will be stored in the object cache. The Navision Application Server computer must therefore have enough memory to store the objects while Navision Application Server is using them.

NetType - Selecting a Net Type

Program Property	Purpose	Where Specified	Default Value	Value
nettype	Permits choice of network protocol.	Command line: <code>nettype=<nettype></code>	TCP	Netb, TCP

To use Navision Application Server in a network, you must select the network protocol that is used for communication between Navision Database Server, Navision Application Server and the clients. There are two possible values, `nettype=tcp` (for TCP/IP) or `nettype=netb` (for NetBIOS).

You must enter the same value on all the client computers and Navision Application Servers in the network as well as on Navision Database Server. On Navision Application Server, enter the net type you have selected on the command line after the start command. When running Navision Application Server with SQL Server, you must use the network protocol TCP.

Install as Service

Program Property	Purpose	Where Specified	Default Value	Value
installasservice	Installs the server as a service on Windows NT.	Command line: installasservice	Has no value.	Has no value.

Windows NT allows you to install Navision Application Server as a service. When Navision Application Server is installed as a service, it starts every time you start Windows NT – without the user having to log on to the system. To install Navision Application Server as a service, enter the following after the command prompt:

```
nas installasservice
```

Do not use the equal sign with this property.

Navision Application Server will not start up automatically after the installation. You must start it using the Navision Application Server Manager.

Uninstall as Service

Program Property	Purpose	Where Specified	Default Value	Value
uninstallasservice	Uninstalls the server as a service on Windows NT.	Command line: uninstallasservice	Has no value.	Has no value.

If you want to uninstall Navision Application Server as a service on Windows NT, enter the following after the command prompt:

```
nas uninstallasservice
```

Do not use the equal sign with this property.

2.2 SETTING NAVISION APPLICATION SERVER PROPERTIES

As explained in the previous section, you can customize the system setup by changing the settings of the various Navision Application Server properties.

When you run Navision Application Server from the command line, you can specify the program properties in any order on the command line. Enter the properties after Navision Application Server's start command, separated by commas. The name of each property is followed by an equal sign (=) and the value to which the property is to be set, for example:

```
database=database.fdb,company=cronus
```

This does not apply, however, to the two server properties:

```
installasservice and uninstallasservice.
```

For these properties, enter the parameter on the command line as follows:

```
installasservice
```

When you run Navision Application Server as a service, you can set properties in the Navision Application Server Manager. For information about this, see page 20.

Startup

Before you start a Navision Application Server, you must create a trigger on codeunit 1 with ID number 99. You must create a parameter of type Text that takes 1024 characters.

If you installed Navision Application Server as a service and you set the *Startup Type* option to automatic, Navision Application Server will automatically start up every time you start the computer.

2.3 MANAGING NAVISION APPLICATION SERVER

When you set up Navision Application Server to run as a service, you can use the Microsoft Management Console to change its properties.

Note

.....
If you run Navision Application Server from a command line, you must reconfigure it from the command line.
.....

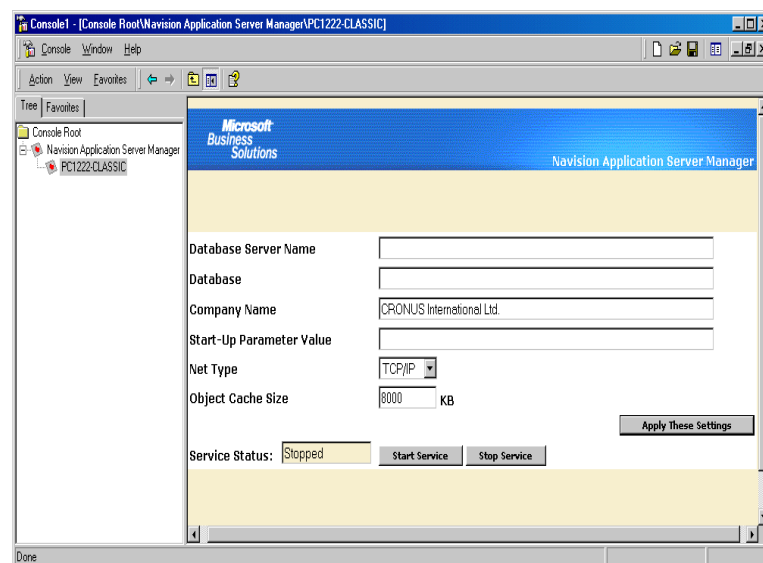
Navision Application Server Manager

The Navision Application Server Manager is a Microsoft Management Console snap-in that does the actual managing of Navision Application Server. With the Navision Application Server Manager, you can see which Navision Application Server properties you have set on the command line. You can also add and reconfigure Navision Application Server. You can start the Navision Application Server Manager immediately after the installation of Navision Application Server is complete. See page 8 for information.

The Navision Application Server Manager interacts with Navision Application Server and requires that the latter is installed. The Navision Application Server Manager accesses Navision Application Server properties through the Registry. If any changes are made to the properties, the Navision Application Server Manager notifies Navision Application Server so that it can respond accordingly.

You can change the properties at runtime, and they will be effective immediately. If Navision Application Server is not running, the properties will take effect the next time you start up Navision Application Server.

The following window displays the Navision Application Server Manager:



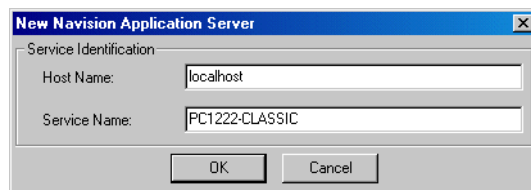
The **Navision Application Server Manager** window consists of two panes - the left-hand and right-hand panes. The left-hand pane displays the actual contents of the Manager, that is, an overview of the Navision Application Servers that have been added to the view.

Adding Navision Application Servers

You can add as many Navision Application Servers to the Navision Application Server Manager as you want. They will be listed under the Navision Application Server node as shown in the previous picture.

To add a Navision Application Server, follow this procedure:

- 1 Right-click the Navision Application Server node.
- 2 Click New, Application Server, and the following window appears:



- 3 Enter the name of the Navision Application Server that you want to add and the name of its host machine. The default value that is entered in the Host Machine field is *localhost*.

Properties

In the right-hand pane of the **Navision Application Server Manager** window, you can define or change the properties of Navision Application Server. To see the configuration settings for a specific Navision Application Server, you click the Navision Application Server that you want to see the properties for on the left-hand pane of the Navision Application Server Manager. On the right-hand pane of the window, the properties are displayed.

The *Property* column displays the properties that apply to Navision Application Server.

The *Value* column displays the current values of the Navision Application Server that you have chosen in the left-hand pane. In this column, you can enter new values.

You can also see the status of Navision Application Server, that is, whether it is running or not. The **Service Status** field can have one of the following values: *Stopped*, *Start pending*, *Stop pending* or *Running*. You have the option to start or stop the Navision Application Server as a service.

When you have made your changes to the configuration (by editing the values) and confirmed the changes by clicking Apply These Settings, the Navision Application Server Manager does the following:

- It changes the properties for Navision Application Server and places them in the Registry.
- If Navision Application Server is running, the Navision Application Server Manager notifies Navision Application Server that changes have been added to the Registry. The changes take effect immediately. If Navision Application Server is not running, the changes will only take effect when you restart Navision Application Server.

If the configuration change fails, Navision Application Server shuts down, and the program reacts in the following way:

- The value in the **Service Status** field changes to *Stopped*. An error message is then logged in the Event Viewer.

2.4 MESSAGE LOGGING

When you run Navision Application Server as a service, it runs without displaying anything on-screen and requires no user interaction. In short, this means that there is no user interface. Consequently, the user is not able to see events or error messages on-screen. Instead, these messages are logged in the Event Viewer. When you run Navision Application Server from the command line, you can see messages on-screen. Read more about this in the following section.

Error and Event Logging

There are slight differences with the error and event logging when you run Navision Application Server as a service and when you run it from the Microsoft DOS command line. The reason for the differences is that in the former there is no user interface, while in the latter the console user interface is used.

Navision Application Server Running as a Service

When you run Navision Application Server as a service, events and error messages are written to the Event Viewer. The Navision Application Server is registered as an event source, so you can filter the messages in the log.

Navision Application Server Running from the Microsoft DOS Command Line

When Navision Application Server is started from a command line, all events and error messages are, by default, displayed on the command line. Alternatively, they can be written to a file in the following way:

```
nas {property settings} > file name
```


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