

Automated Data Capture Systems for Microsoft Navision[®] 3.70

NAVISON[®]
The Way to Grow

**Automated Data Capture
Systems for Microsoft
Navision[®] 3.70**

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PREFACE

Microsoft Navision is a collaborative business management solution for medium-sized companies. It is an integrated solution that includes functionality to support financial and relationship management, distribution, manufacturing, advanced warehouse-handling module (WMS) and, now, the use of hand-held devices in warehouse processes.

Navision Automated Data Capture Systems is aimed at companies with the need of using handheld devices in their warehouse processes.

This Installation guide is part of the Navision Product Specialist Training, Supply Chain curriculum, and is aimed at resellers and implementers of Automated Data Capture Systems (ADCS).

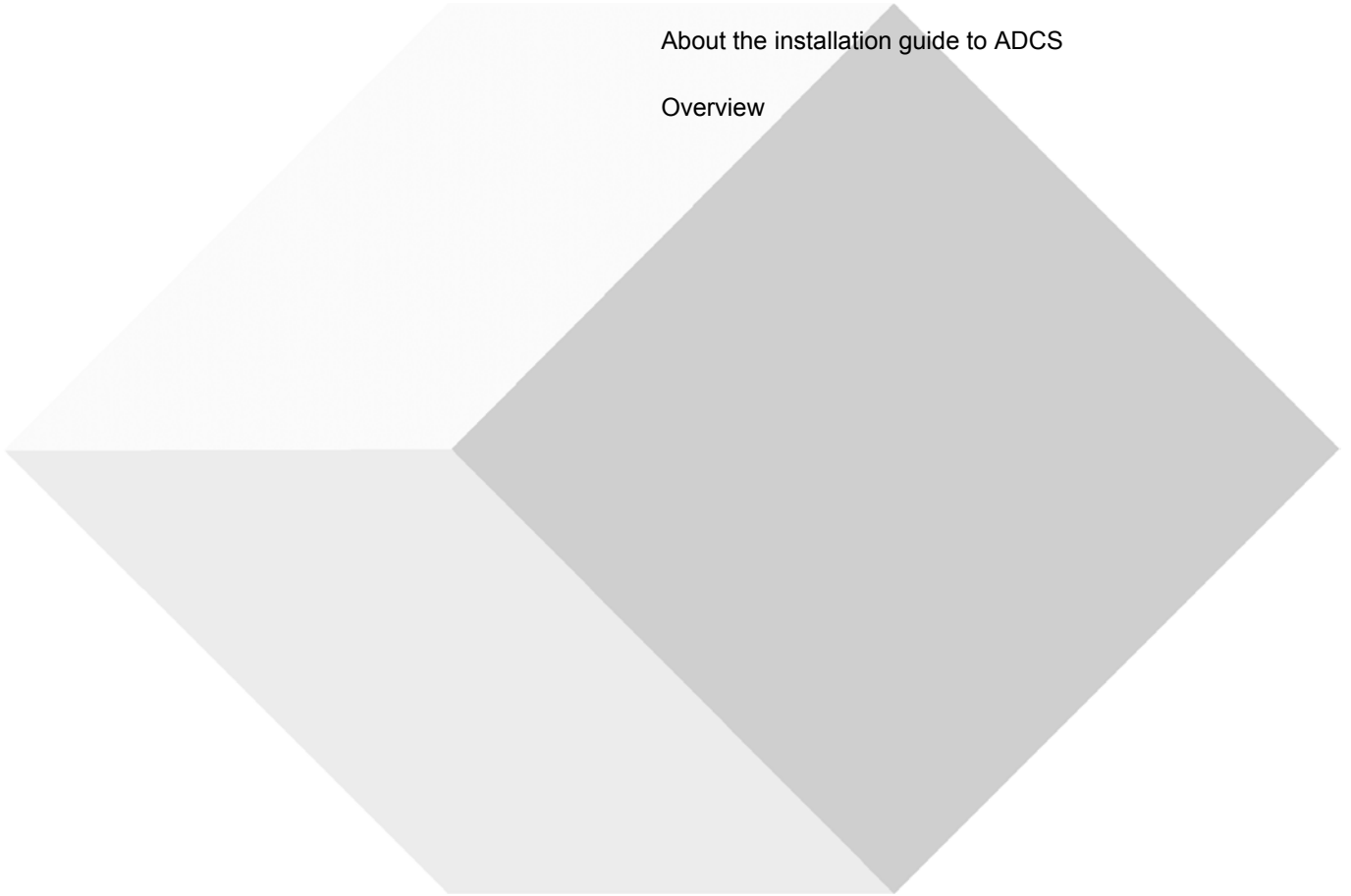
Chapter 1.

Introduction

This chapter contains the following sections:

About the installation guide to ADCS

Overview



1.1 ABOUT THE INSTALLATION GUIDE FOR ADCS

The purpose of this installation guide is to give the resellers and implementers of ADCS a full understanding of the installation procedures of the application.

Installation Requirements

In order to use the ADCS functionality, additional Microsoft Navision products beside the standard Client must be installed. The additional programs consist of ADCS, Navision Database Server and Navision Application Server (NAS).

Operating System

This installation guide is based on the Microsoft Windows 2000 Professional operating system.

Navision Database Server and Navision Application Server requires either Windows NT4, Windows 2000 Professional or Windows XP Professional. Windows95, Windows98 or Windows Millenium Edition can not be used.

It is NOT recommended to use a PC where Windows NT4, Windows 2000 Professional or Windows XP Professional has been installed on top of Windows95, Windows98 or Windows Millenium Edition.

1.2 OVERVIEW

Using accurate data in warehouse documents is essential to keep inventory accuracy, both in regards to item no., quantity and additional information such as Lot. No. and Serial No (Not supported in this version).

Due to the period that this installation guide was updated, illustrations are of the W1 370Beta2.

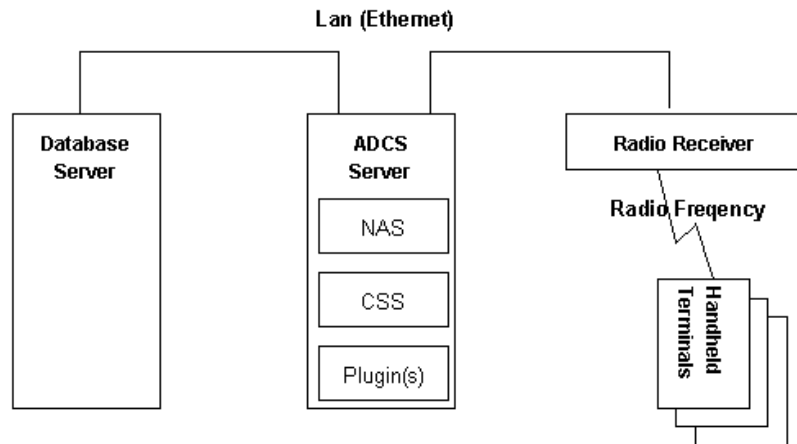
In supply chain operations, companies are experiencing increased pressure for faster operations, and batch of data capture represents a problem in this since it means that the warehouse worker will have to make a number of return trips to their desk to collect and enter information. Online operation with the use of radio frequency technology provides the user with continuous validation of every single item movement in the warehouse.

At the same time, the high staff turnover that many companies experience makes it harder and more time-consuming to make items known to and recognized by a number of inexperienced staff.

Based on the above, it is essential for a supply chain company to have a fast and accurate method of recording items' data. The fastest and most reliable current method of doing this is by using bar codes in connection with a number of different possible capture systems.

The Automated Data Capture Systems (ADCS) granule provides companies with the necessary functionality to capture accurate data for inbound, outbound and internal documents (primarily in connection with warehouse activities).

This document first describes how to set up ADCS for Microsoft Navision. It then explains how the operating system is managed in connection with the use of ADCS.

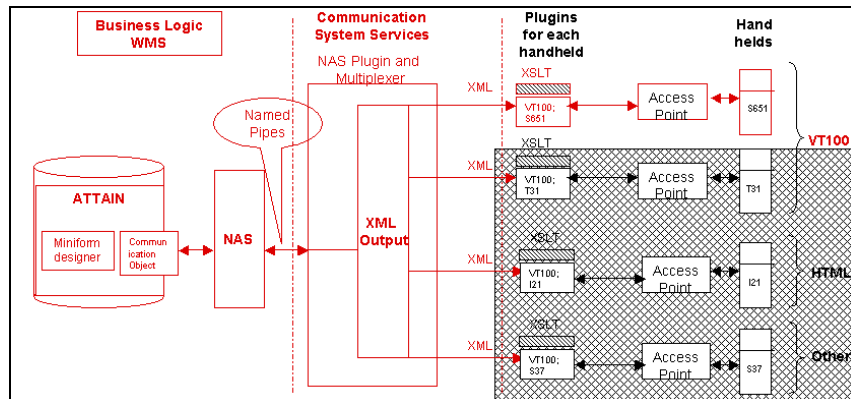


The ADCS solution is designed around the Navision Application Server. The Navision Application Server (NAS) can be compared to a normal Microsoft Navision Client without the User Interface. However, it is possible to communicate with the NAS by the use of a Communication Service System (CSS) and a plugin that supports the protocol used by the handheld terminals.

The NAS is responsible for processing data coming to it from the handhelds, and sending the appropriate response to them. A standard XML format is used to send and receive the data.

The Communication Service System is responsible for handling requests directly from the plugin. The CSS is also responsible for ensuring that the response from the NAS is directed to the correct handheld, thus reducing the load on the NAS.

The plugin provides the link between the CSS and the Access Points for the handhelds, and as a virtual Telnet server. All connection requests and data transmissions are handled by this service, and the incoming native protocol is transformed into Standard XML that the NAS can interpret. Once a request has been transformed it is forwarded to the CSS for onward transmission to the NAS. When a reply is received, it is converted from XML into the Native Protocol of the handheld (function keys are mapped using an XLST file that may be modified by the end user). Once the data has been transformed and formatted, it is forwarded to the handheld.



The above diagram illustrates the technical design of the ADCS solution. The functionality covered by the chequered area is not part of the standard solution but could be developed by a third party.

For a quick overview of typical procedures associated with specific ADCS activities, it is recommended that you read the respective topic in online Help.

Types of handhelds and performance

All character-based handhelds that has a VT100 interface should work, but minor adjustments might have to be implemented with some models. You have to be able to connect either the Access Point or the RF terminal to the IP or port address of the ADCS server.

If you want to use graphics based handheld you will need to develop your own plugin.

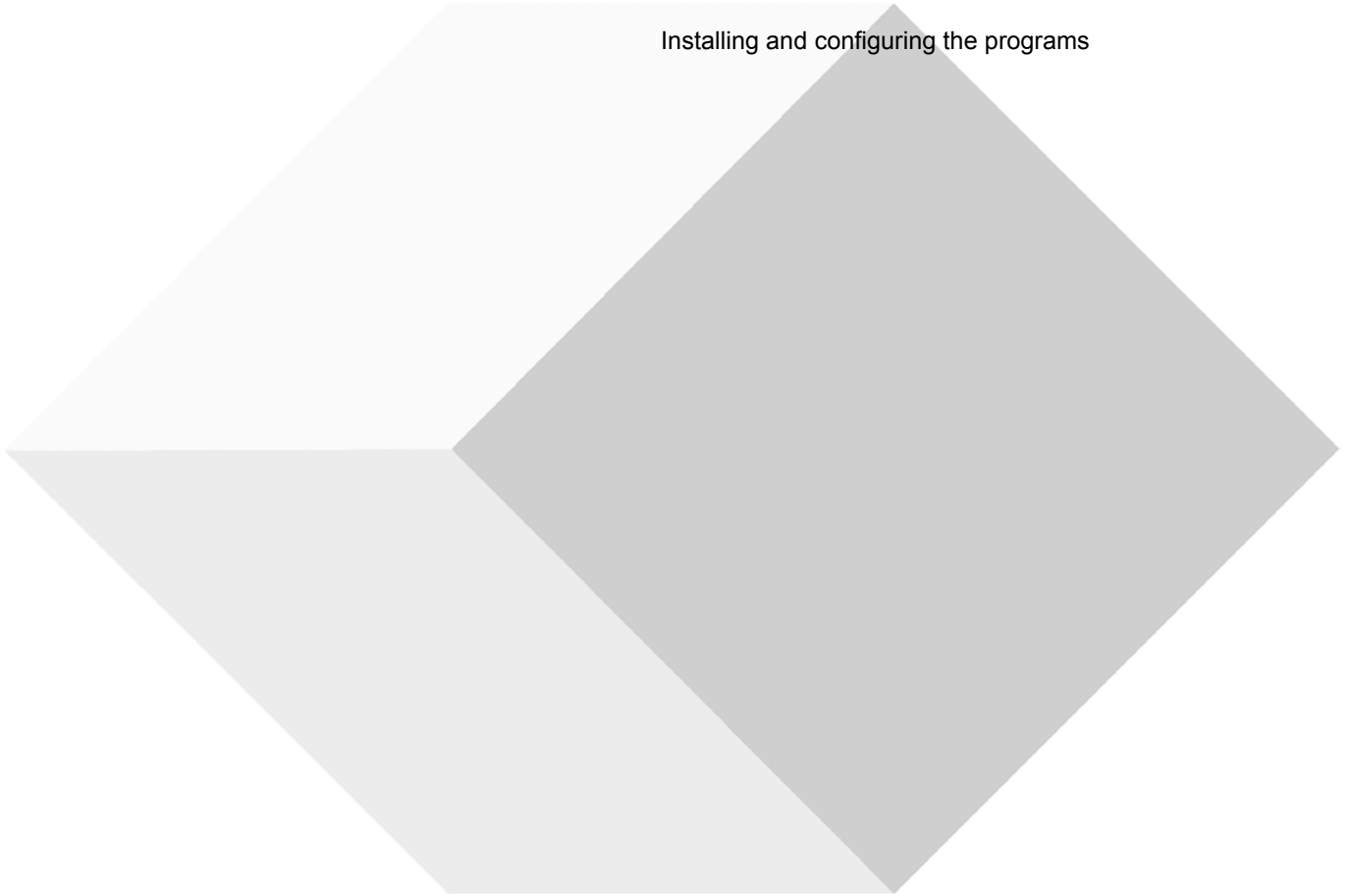
A setup with one NAS server and 10 remote terminals has been tested and the performance was fine. In theory you should be able to connect any number of remote terminals to a NAS server. But if performance becomes an issue you can always add an extra NAS server and direct some of the terminals to the new NAS server and achieve improved performance in that way.

Chapter 2.

How to Install

This chapter contains the following sections:

Installing and configuring the programs



2.1 INSTALLATION PROCEDURE

TIP:

ADCS has been designed to be used with access to a network. Without network access it will not work.

However, if you want to install ADCS on a PC without access to a network and use it for demonstration purposes, you have to install a Microsoft Loopback network adapter.

When not connected to the network you have to disable your normal network adapter and enable the Loopback adapter. And do the opposite when you have connection to a network.

To install the Loopback network adapter you have to use the Add/Remove Hardware wizard in the Control Panel. During the installation you should make the following selections:

- Add/troubleshoot a device
- Add a new device
- No, I want to select the hardware from a list
- Network Adapters
- Microsoft
- Microsoft Loopback Adapter

This installation manual is based on a situation where you have access to a network.

The installation of ADCS consists of multiple application installations from the Microsoft Navision 3.70 Product CD.

Important:

In order to function it is recommended that the Navision Database Server, Navision Application Server, the Communication Services System server and the VT100 plugin are all installed on the same computer.

- 1 Enter the product CD in your CD drive and hold down the SHIFT key while the CD is spinning up. Click the Windows Start button, Run, Browse, and browse to your CD drive.
-

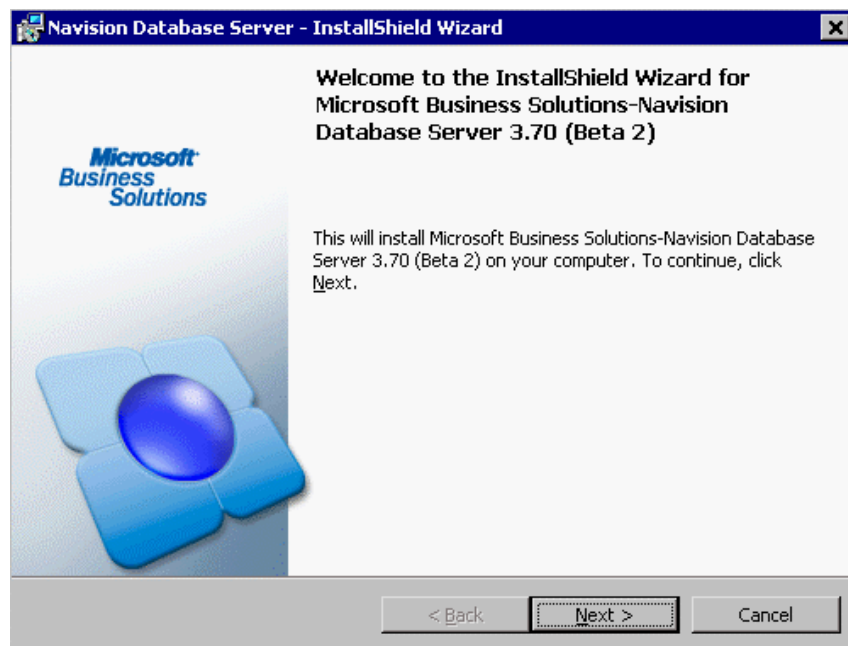
- 2 Click Program files, Microsoft Business Solutions-Navision.

The programs that are to be installed are the Navision Client, Navision Database Server, Navision Application Server (NAS) and the ADCS application. It is strongly recommended that you start by installing the Client. By installing the Client first, you will not have to specify the path of the database to the Database Server at a later time.

- 3 Click the Client folder and then the click the Setup file.
- 4 Follow the instructions from the Installation Wizard, and when prompted, select Typical installation.

When this installation is complete, you have installed the client. Your next step is to install the Database Server.

- 5 From your product CD, select and open first the Server folder, then the NTintel folder and then click the Setup file.



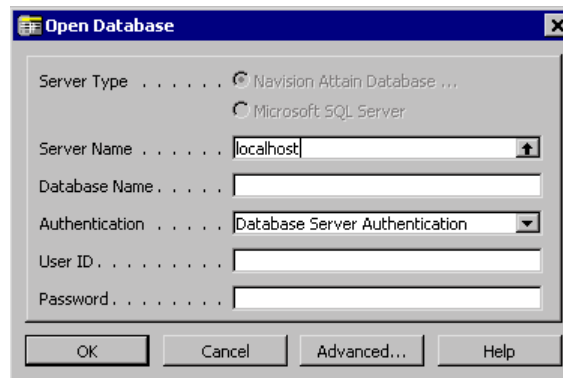
- 6 Follow the instructions from the Installation Wizard and, when prompted, select Typical installation.

When this installation is complete, you have installed the Database Server. To test that the Database Server can access the database you need to do the following:

Note

.....
You have to copy your license file to the database folder. Remember to rename the file to fin.flf when copying.
.....

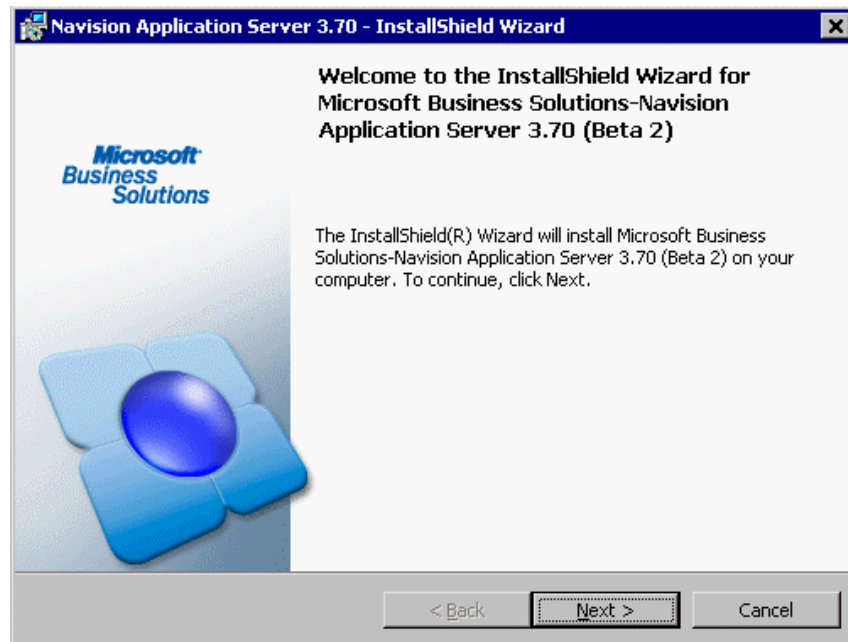
- 7 Start the Microsoft Navision client.
- 8 From your File menu bar, click File, Database, Close.
- 9 Click File, Database, Open.



- 10 In the Server Name field, enter "localhost".
- 11 In the Authentication field, Database Server Authentication should be selected.
- 12 Click OK.
- 13 Press F12 to start the Main Menu. If you see the Main Menu the Database Server can connect to the database. If you get an error you need to sort the problem out and get the Database Server to access the database.

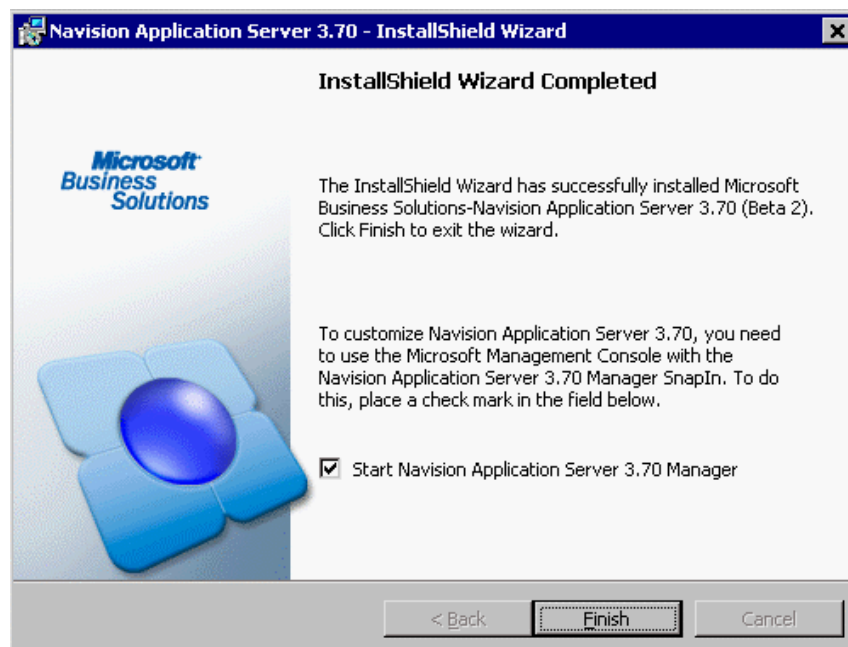
Your next step is to install the Microsoft Business Solutions-Navision Application Server (NAS).

- 14 From your product CD, select and open the Nas folder and then click the setup file.
-

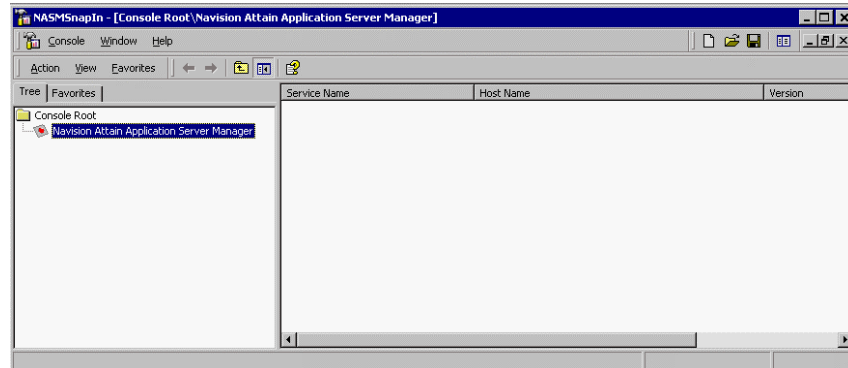


- 15 Follow the instructions from the Installation Wizard, and when prompted, select Typical Installation.

Near the end of the installation process, the program will ask whether you would like the Navision Application Server to be started when completing the installation. As you do, leave the check mark in the field.

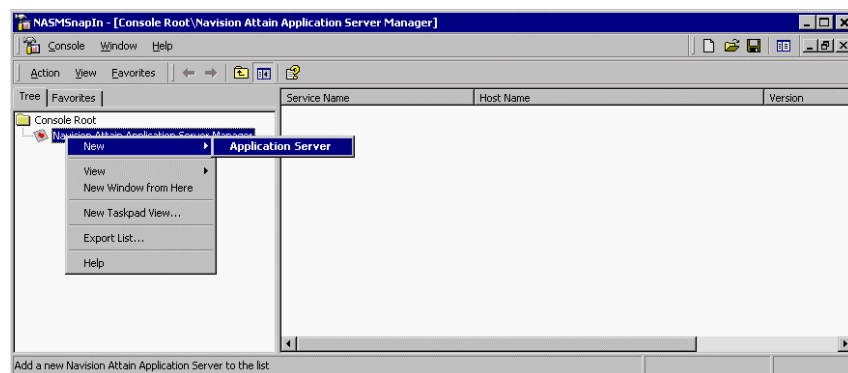


- 16 Click Finish and the Microsoft Management Console window appears.



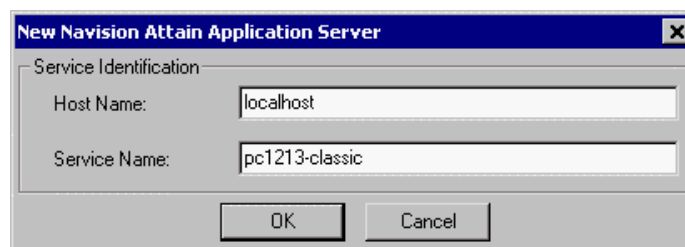
You are now ready to configure the application server.

- 17 Right-click Navision Application Server Management then click New, Application Server.

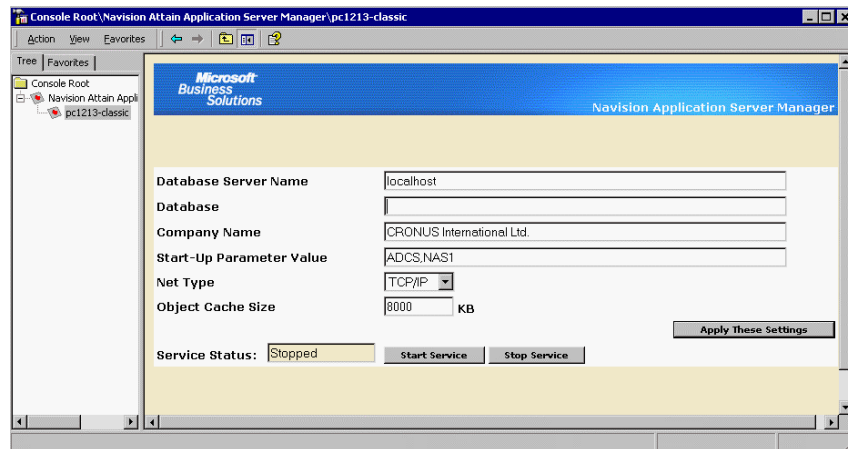


The New Navision Application Server window appears.

- 18 Enter your computer's network name in the Service Name field, enter "-classic" at the end, then click OK.



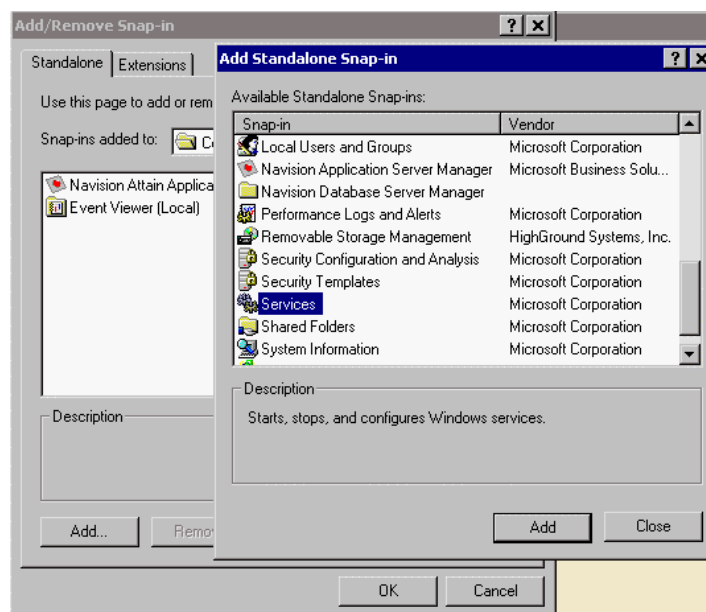
The Navision Application Server window is now filled in but you will also need to fill in the fields to configure the NAS.



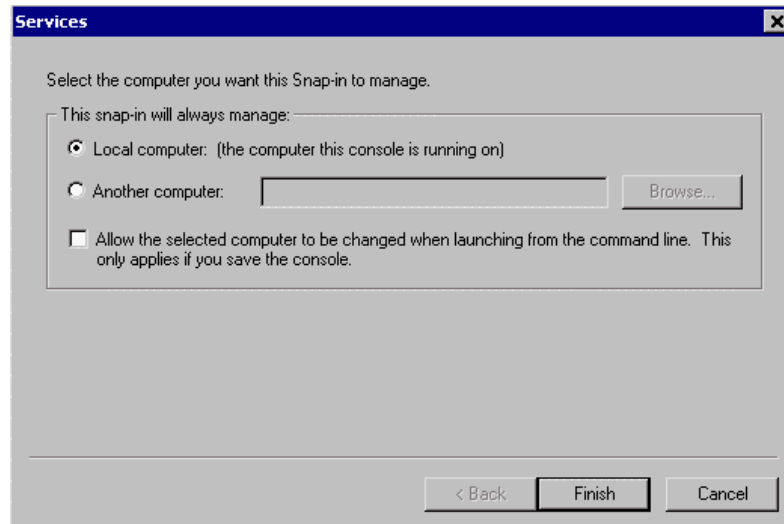
The Company Name and the Net Type fields are already filled in, if not, fill in according to the company information of the application.

- 19 In the Database Server Name field, enter localhost, in the Start-Up Parameter Value field, enter “ADCS,NAS1” and in the Object Cache Size field enter 8000. The company name should be changed to the name of the company that you want the NAS server to access in the Microsoft Navision database.

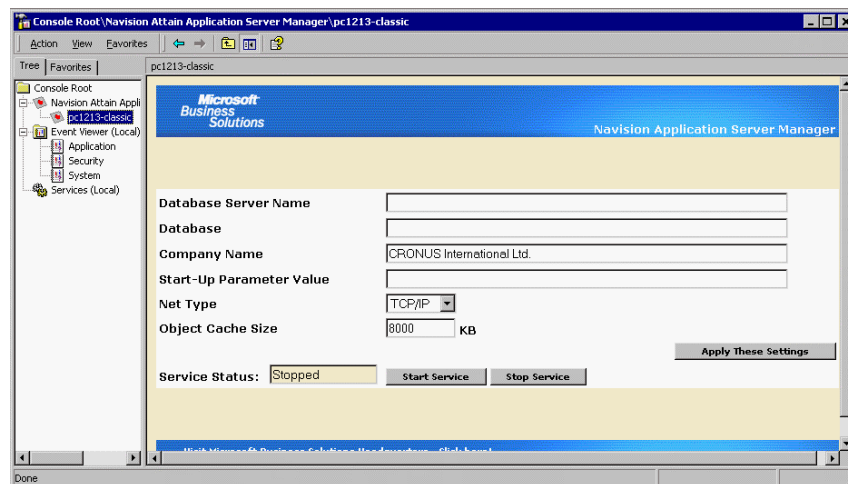
In order to make the application server available for the user of the computer, there are a few preparations to be made. Windows Services and the Windows Event Viewer are to be made visible and can be applied to the Console Management window.



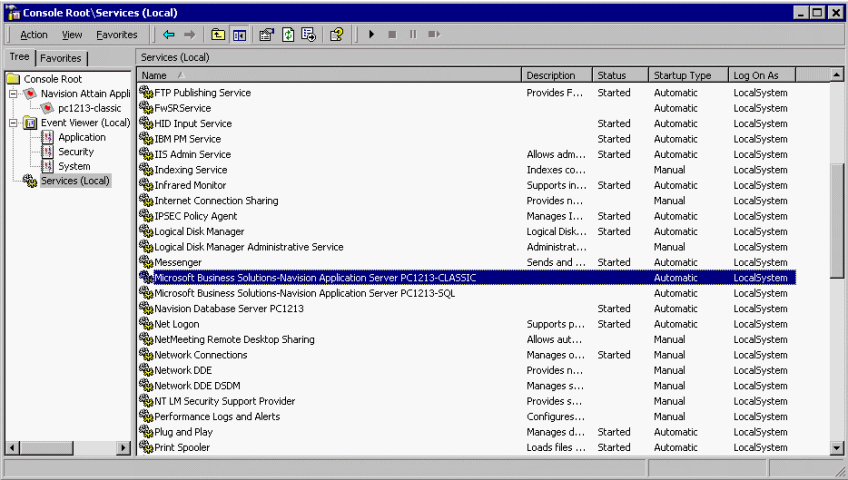
- 20 From the Console Management window, click Console, Add/Remove Snap-in and click the Add button.
- 21 Select Services and click Add.



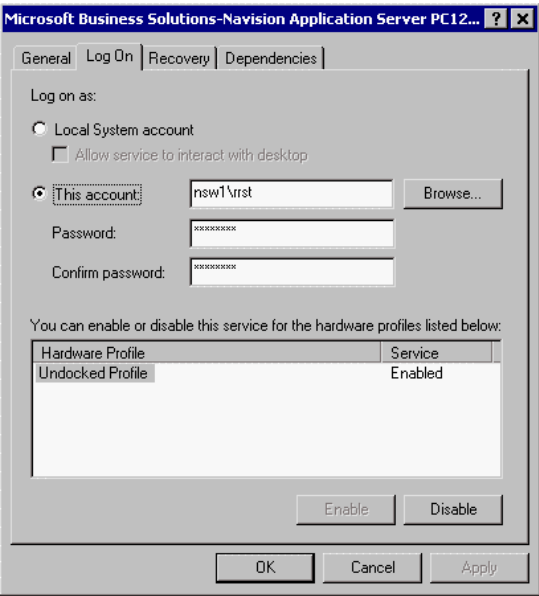
- 22 Turn on the Local Computer field and click Finish to add Services to your Console Management window.
- 23 Repeat the above process and select Event Viewer.



- 24 Click Services and select Microsoft Business Solutions-Navision Application Server.



25 Right-click, Properties, and then click the Log On tab.



26 Click the This Account button, and enter your username and Windows login password, confirm the password and click OK. NOTE: If you are connected to a Windows Domain, you need to enter the Windows login as Domain name\login.

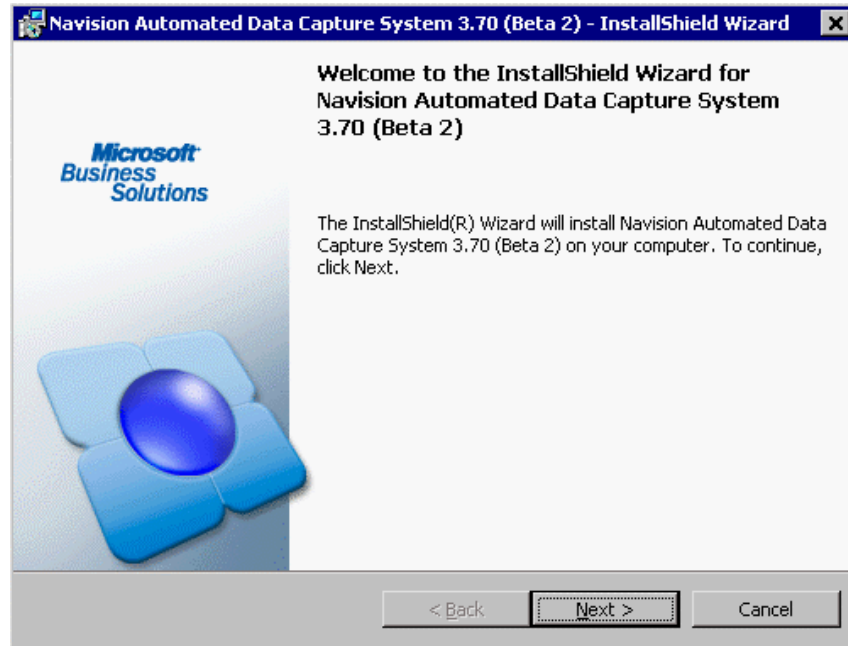
Note

.....
You have to copy your license file to the database and application server folder. Remember to rename the file to fin.flf when copying.
.....

It is now time to install the last program needed to complete the installation

of ADCS.

- 27 From your Product CD, select and open the ADCS folder, and then click the Setup file.

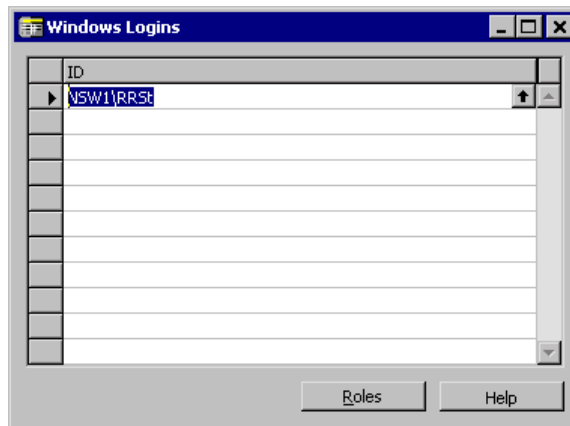


- 28 Follow the instructions from the Installation Wizard, when prompted, select the folder on your hard drive containing the previous installed Navision applications.

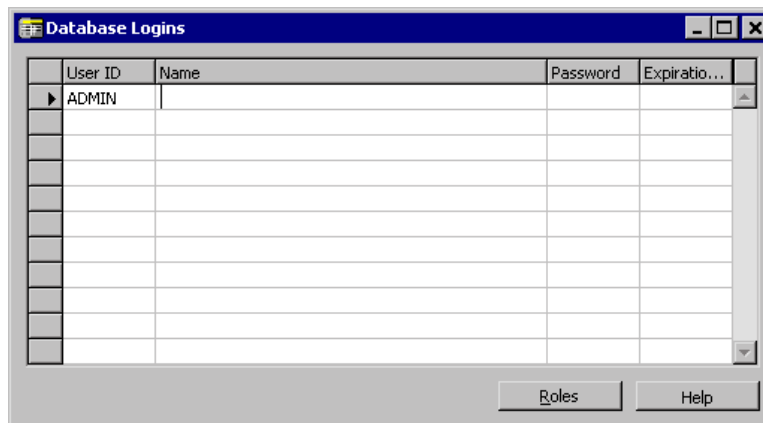
When the installation is complete, you have finished installing Automated Data Capture Systems for Microsoft Navision 3.70.

Your next step is to configure Microsoft Navision to use the ADCS application.

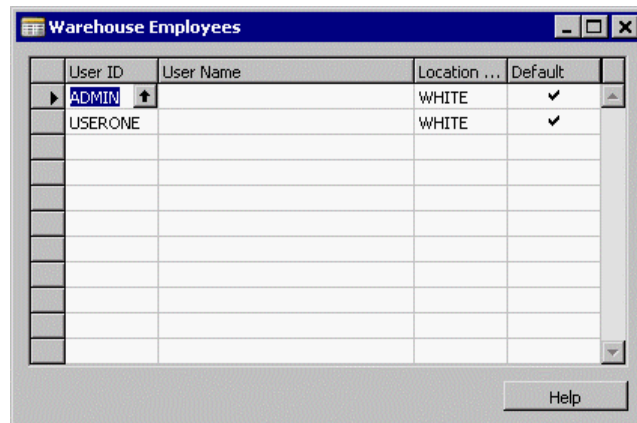
- 29 From the Windows start bar, click Start, Programs, Microsoft Business Solutions-Navision, Microsoft Navision. The Navision Application appears.
- 30 From the File menu click Tools, Security, Windows Logins.



- 31 Add the same user as on the Navision Application Server.
- 32 Click Roles, add Role ID "Super".
- 33 From your File menu bar, click Tools, Security, Database Logins.



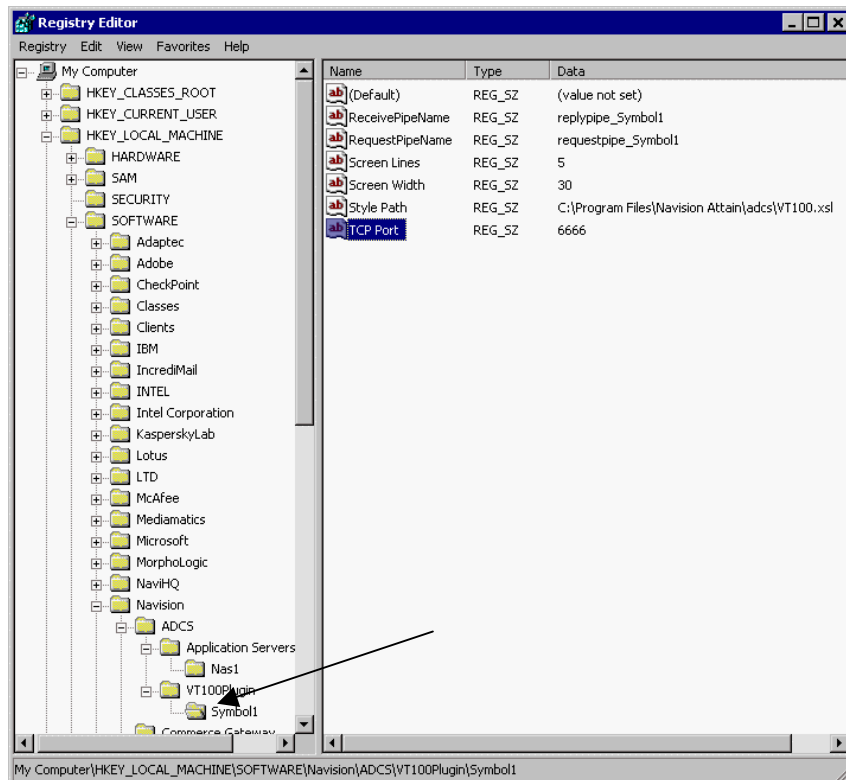
- 34 Add a user(s) and assign roles. In this example select ADMIN, as user and SUPER for the role.
- 35 From the Warehouse Management menu, click Setup, Warehouse Employees.



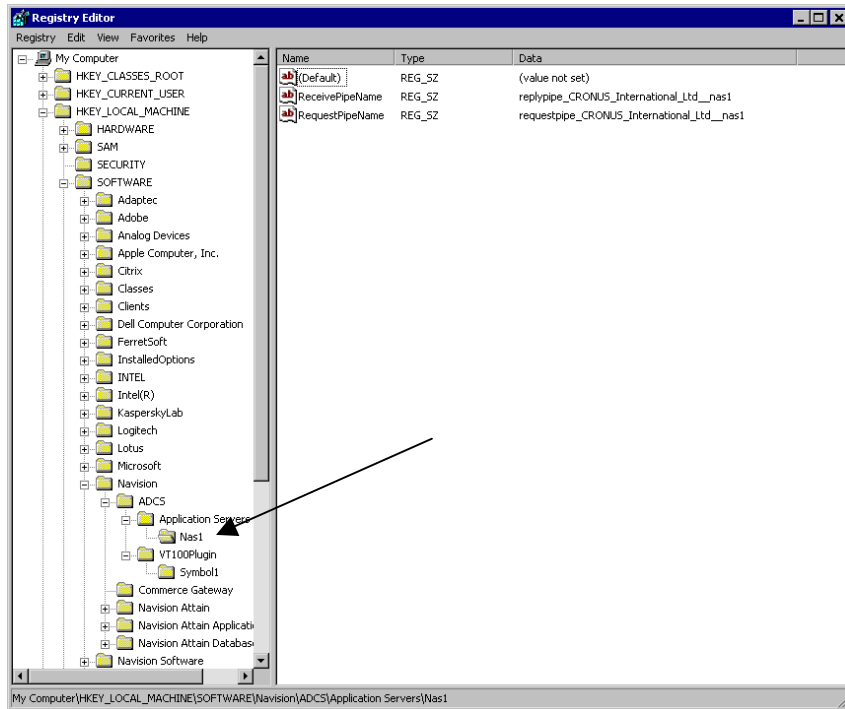
- 36 Enter the user(s) you previously inserted, fill in the Location and in this example select location WHITE and put a check mark in the default field.

Changing the parameters for the handheld device

In case you would like to change the value of the TCP port or the number of lines and width in the handheld device screen in the VT100Plugin, go to the Windows Registry by using the Registry Editor typing the "regedit" command in the Windows Run field.



You may have to change the name of the Named Pipe in the Nas1 folder in the same registry.



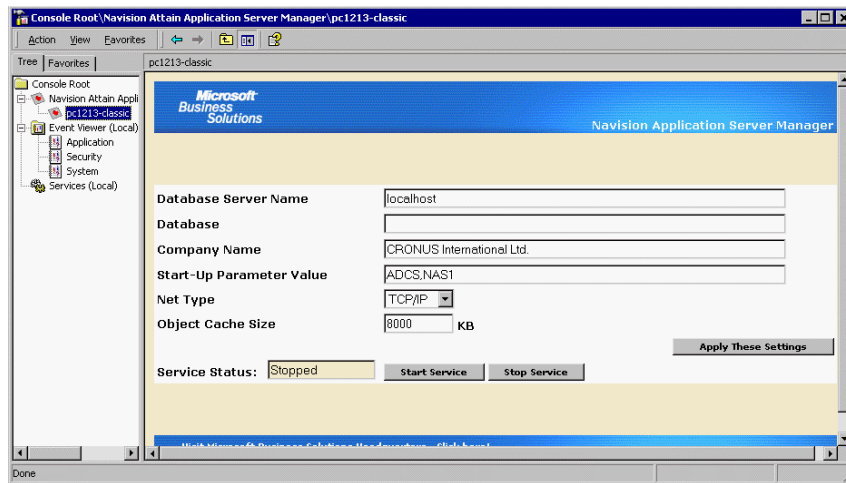
Click OK to confirm the values. Remember to reboot the PC after these changes have been made to the registry.

After the PC has restarted you need to check that the services has started up correctly and is running. The services are as follows:

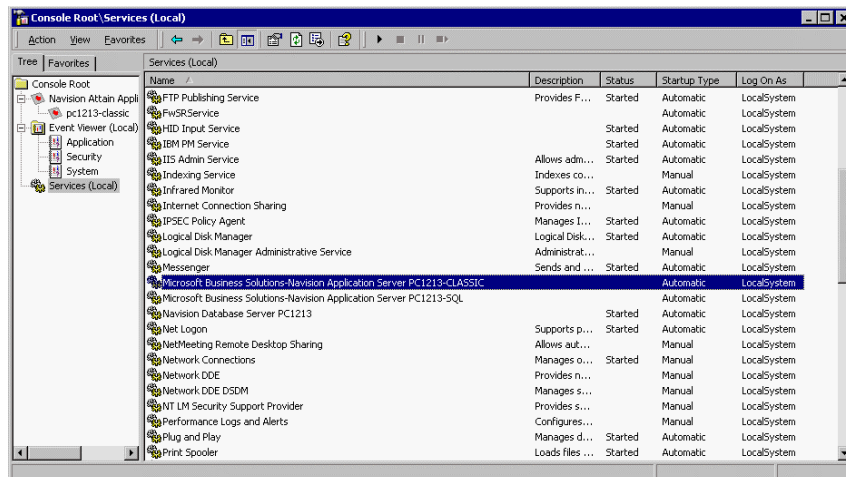
- Microsoft Navision Application Server (classic)
- Microsoft Navision Database Server (classic)
- Microsoft Navision Communication System Service
- Microsoft Navision VT100 Plugin.

To check these services:

- 1 From the Windows start bar, click Start, Programs, Microsoft Business Solutions-Navision, Microsoft Business Solutions-Navision Application Server Manager.

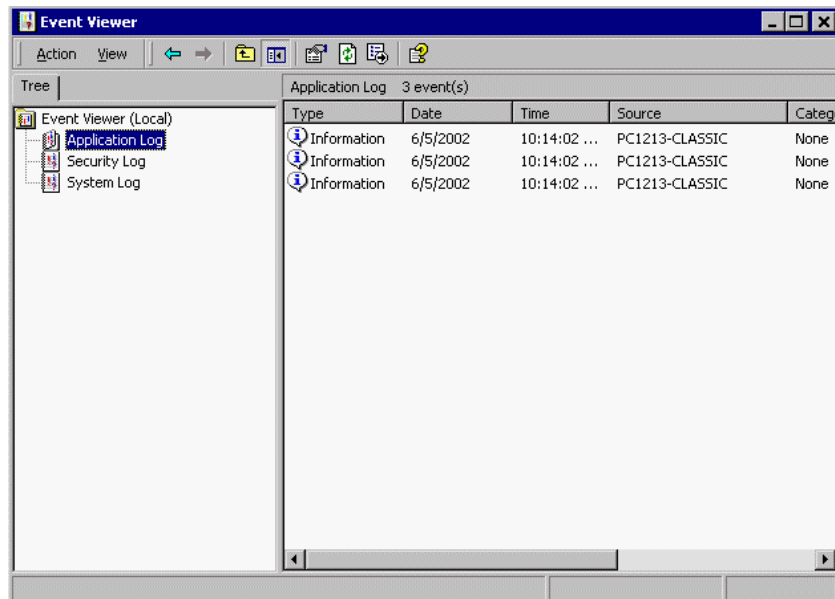


2 Click Services.

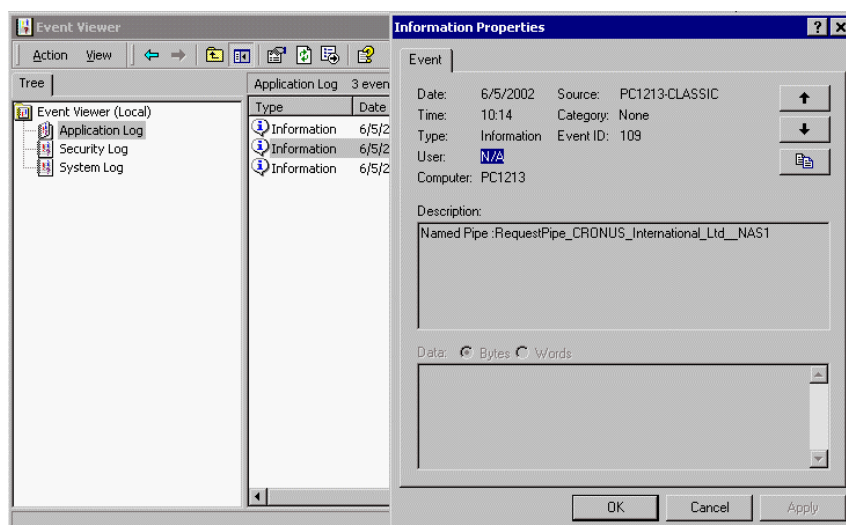


3 Check that each service has Status Started next to it. If one or more of the services does not have Status Started you will need to check the Event Viewer to see the reason.

4 Click Event Viewer, and select the Application Log.



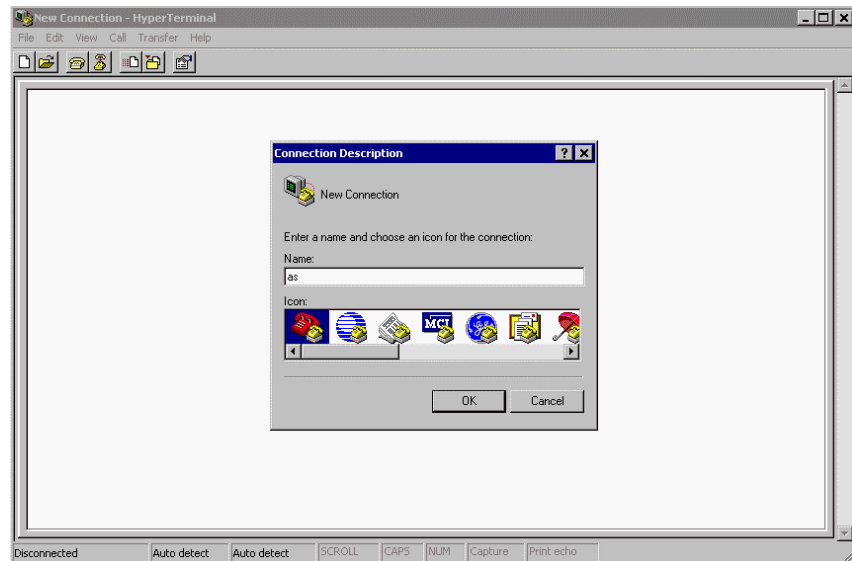
The information lines displayed in the log should all be without a warning, if they are not, click the event in question and correct the problem according to the information given on the information lines in the Event Viewer there is the opportunity to see the name of Named Pipe.



Using HyperTerminal to test the connections

If a handheld device is not present the connection can be tested within a Windows application, the HyperTerminal.

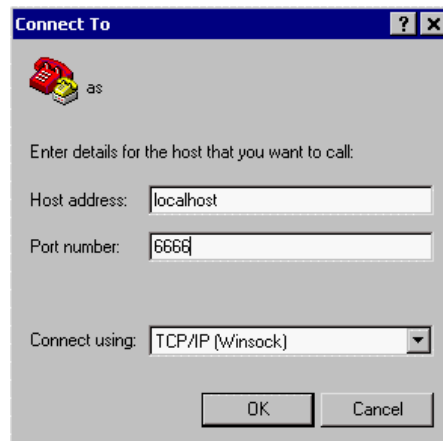
- 5 From the Windows start bar, click Start, Programs, Accessories, Communication, HyperTerminal.



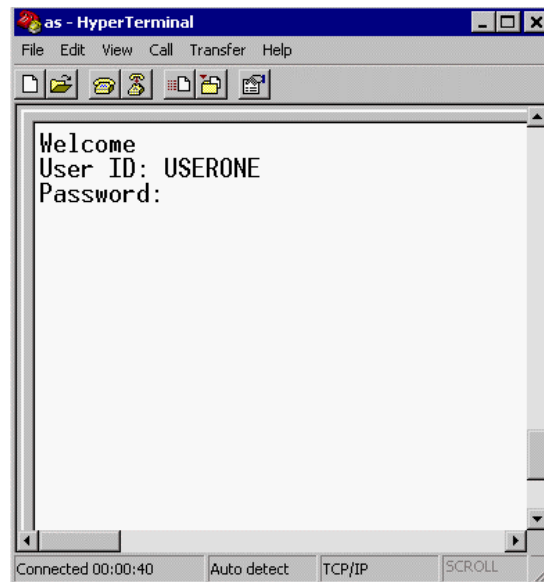
- 6 Enter a suitable name (In this case we chose "as" for the application server).



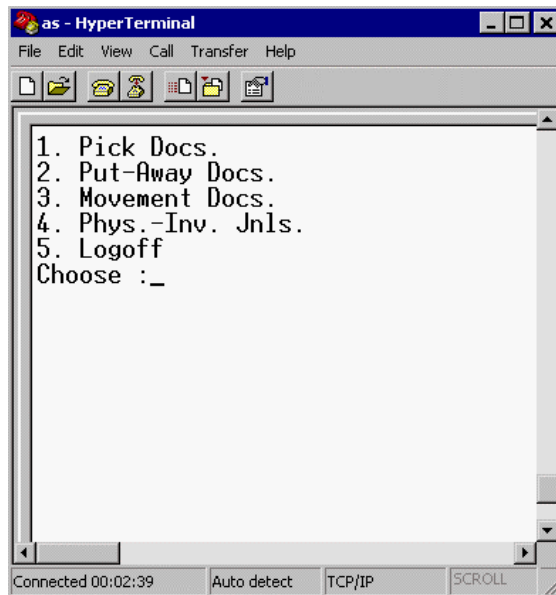
- 7 Select connection "TCP/IP (Winsock)"



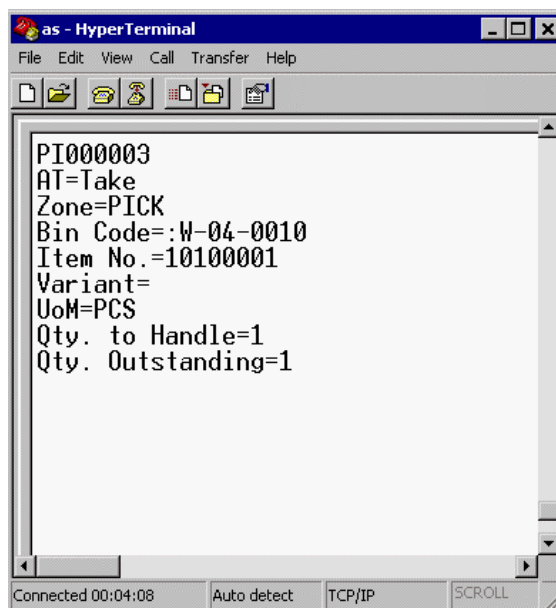
- 8 In the Host address field, enter “localhost”, and in the Port number field enter “6666”. Then click OK.



- 9 Enter User ID (ADMIN or USERONE) and password (if any).



10 Select, as an example number 1, Pick Docs.



This data is the same as will be seen on the handheld device. The number of lines displayed on a handheld device depends on the ability of the equipment in use and the setup of the device.

Chapter 3.

Forms and Functions

This chapter contains the following sections:

Miniform

Functions

Identifier

Forms, Tables and Codeunits

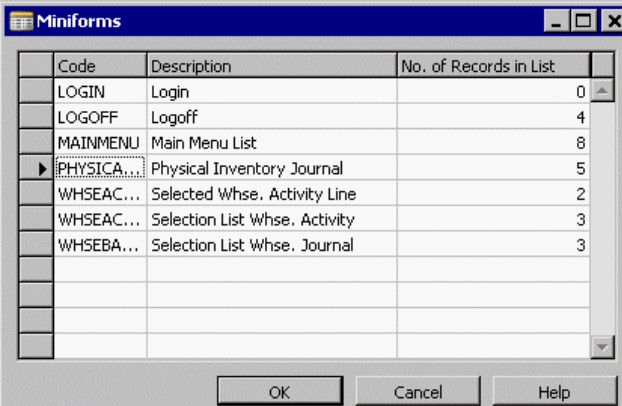
3.1 MINIFORM

The Miniform is used to define the amount of information displayed on the hand-held. This information can be data originating from tables (like a list of documents the user can select from), text information (for example, the main menu), comments that can be used to show error messages, or positive results to activities processed by the user. Or any combination of these.

The Miniforms are designed so that each form represents a series of one or more actions that are to be carried out by the hand-held. Miniforms that contain more than one action will be repeatedly sent until all the actions are completed, or the user leaves the form by using an escape function.

The Miniforms in the demodata consists of seven forms, each with specific values. The existing forms are:

- LOGIN
- LOGOFF
- MAINMENU
- PHYSICALINV
- WHSEACTLINES
- WHSEACTLIST
- WHSEBATCHLIST



Code	Description	No. of Records in List
LOGIN	Login	0
LOGOFF	Logoff	4
MAINMENU	Main Menu List	8
PHYSICA...	Physical Inventory Journal	5
WHSEAC...	Selected Whse. Activity Line	2
WHSEAC...	Selection List Whse. Activity	3
WHSEBA...	Selection List Whse. Journal	3

OK Cancel Help

- 1 From the Warehouse Management menu, click Setup, ADCS,

Miniforms.

The screenshot shows a window titled "LOGIN - Miniform". It has a "General" tab selected. The fields are as follows:

- Code: LOGIN
- Description: Login
- Form Type: Card (dropdown menu)
- No. of Records in List: 0

Below these fields is a table with 5 columns: Area, Field Type, Table No., Field No., and Text.

Area	Field Type	Table No.	Field No.	Text
Header	Text	0	0	Welcome
Body	Input	2000000002	1	User ID
Body	Input	2000000002	2	Password

At the bottom right, there are buttons for "Mini Form" (with a dropdown arrow) and "Help".

The Code field represents a code to identify the Miniform. The Description field is a description of what the form is used for. The Form Type field consists of four different types, from which you can choose the following:

- Card The form is a card-type form that can show text. Only used for Login.
- Selection List A list-type form that contains a text list (for example main menu) from which the user can make a selection.
- Data List A list-type form that contains a list of data (for example Phys. Inventory) where the user can choose a document.
- Data List Input A list-type form that contains a list of data (for example Warehouse Activity Lines) where the user can enter data.

Note: There are five columns on the form window.

Area

Here you can select the area to display the data on the hand-held. The final entry on the hand-held is handled by the XSLT style sheet for the specific hand-held.

Header	The information in the Miniform line will be displayed in the header area of the hand-held.
Body	The information in the Miniform line will be displayed between the header area and the footer area of the hand-held.
Footer	The information in the Miniform line will be displayed in the footer area of the hand-held.

Field Type

Here you can specify the type of data defined in the Miniform line.

Text	Any kind of plain text like a header information (main menu) or the contents of any kind of menu.
Input	Data originating from the database where the user on the hand-held is allowed or expected to enter data.
Output	Data originating from the database that is only displayed to the user. The user on the hand-held is not allowed to enter data.

Table No.

The number of the database table from which the data is coming or to which it is entered.

The screenshot shows the 'LOGIN - MiniForm' dialog box with the 'General' tab selected. The fields are as follows:

Area	Field Type	Table No.	Field No.	Text
Header	Text	0	0	Welcome
Body	Input	2000000002	1	User ID
Body	Input	2000000002	2	Password

Below the dialog box is the 'Fields' list, which is a table with the following data:

TableNo	No.	TableName	FieldName	T..	C..
3	1	Payment Terms	Code	C..	N..
3	2	Payment Terms	Due Date Calculation	D..	N..
3	3	Payment Terms	Discount Date Calculation	D..	N..
3	4	Payment Terms	Discount %	D..	N..
3	5	Payment Terms	Description	T..	N..
3	6	Payment Terms	Calc. Pmt. Disc. on Cr. Memos	B..	N..
4	1	Currency	Code	C..	N..
4	2	Currency	Last Date Modified	D..	N..
4	3	Currency	Last Date Adjusted	D..	N..
4	6	Currency	Unrealized Gains Acc.	C..	N..

At the bottom of the dialog box are buttons for 'OK', 'Cancel', and 'Help'.

Field No.

The number of the field in the database table from which the data is coming from or to which it is entered.

Text

Field Type "Text": plain text.

Field Type "Input" and "Output": populated with the field name that will be used as the field label on the hand-held. It can be modified by the user.

Note

.....

This text is hard coded and for localization purposes this must also be changed in the code. The codeunit in question is CU7702

.....

Modification and creation of Miniforms is to be carried out by the Miniform form, which is displayed below.

Area	Field Type	Table No.	Field No.	Text
Header	Text	0	0	Welcome
Body	Input	2000000002	1	User ID
Body	Input	2000000002	2	Password

It is possible to define multiple input fields. In this case, to meet the restriction to have only one input field on the hand-held, the Miniform will be sent repeatedly, each time with the next input field marked as an active input field.

Functions

The Functions table contains functions that are available within the application.

- 1 From the Miniform, click Mini Form, Functions.

Function...
ESC
FIRST
LAST
REGISTER
RESET

The Miniform Functions table contains a combination of Miniforms and

corresponding Functions. The Function form contains a menu button that takes the user to the Miniform Functions form.

- 2 Click the ESC Function field.

The Form for creating Functions is for display purposes only. It lists the functions for which reactions have been coded in the Communication codeunit (CU7701), and the user may not create new functions!

Code	Description
CODE	Description
ESC	Escape
FIRST	First Line
LAST	Last Line
PGDN	Page down
PGUP	Page up
REGISTER	Register Warehouse Document
RESET	Reset Qty. to Null

OK Cancel Help

Identifier

To identify items to, for example, a bar code, relations between the bar code and the item no. must be set. This is done in the Identifier field on the item card.

- 1 From the Inventory menu, click Items and browse to item no. LS-81 and then click the Warehouse tab.

LS-81 Loudspeaker, Walnut, 80W - Item Card

General Invoicing Ordering Manufacturing Foreign Trade Item Tracking Commerce Portal Warehouse

Special Equipment Code . . .

Put-away Template Code . . .

Put-away Unit of Meas... PALLET

Phys Invt Counting Pe... . . .

Last Phys. Invt. Date . . .

Last Counting Period U... . . .

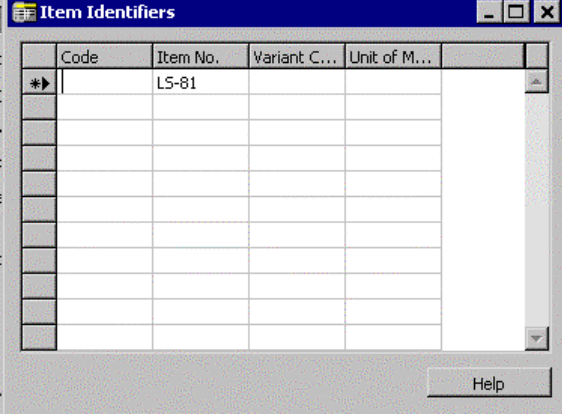
Next Counting Period . . .

Identifier Code

Use Cross-Docking . . . ☒

Item Sales Purchases Functions Help

- 2 Click Item, Identifier and the Item Identifiers window appears

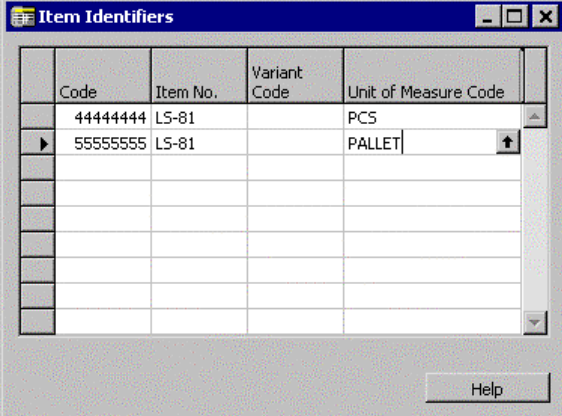


	Code	Item No.	Variant C...	Unit of M...
*▶		LS-81		

Help

In the Code field, you can scan in the barcode for item no. LS-81. Since item LS-81 is handled both in pieces and pallets, you are able to enter multiple codes for one item.

- 3 Enter 44444444 (for simplicity) in the code field and PCS in the Unit of Measure field.
- 4 In the next line, enter 55555555 (for simplicity) in the Code field and PALLETS in the Unit of Measure field.



	Code	Item No.	Variant Code	Unit of Measure Code
	44444444	LS-81		PCS
▶	55555555	LS-81		PALLET

Help

- 5 Close the Item Identifiers window, and the Identifier Code field on the item card is updated.

LS-81 Loudspeaker, Walnut, 80W - Item Card

General | Invoicing | Ordering | Manufacturing | Foreign Trade | Item Tracking | Commerce Portal | Warehouse

Special Equipment Code . . .

Put-away Template Code . . .

Put-away Unit of Meas... PALLET

Phys Invt Counting Pe... . . .

Last Phys. Invt. Date . . .

Last Counting Period U... . . .

Next Counting Period . . .

Identifier Code 5555555

Use Cross-Docking . . . ☒

Item Sales Purchases Functions Help

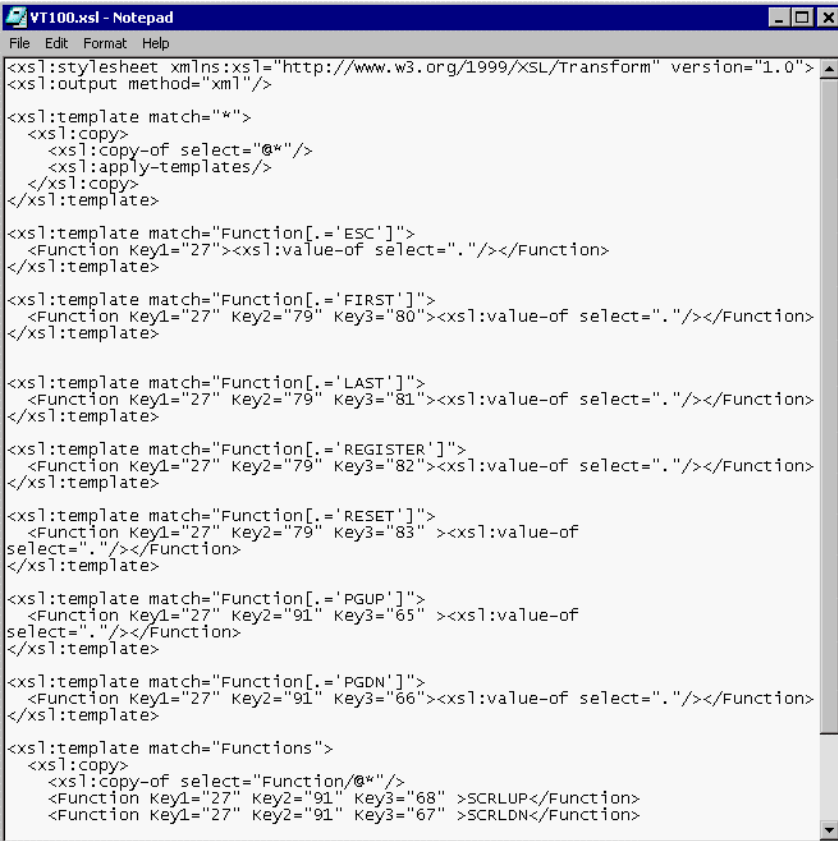
Scanning the information on the bar code, for example, one unit of 55555555 on a warehouse pick line will enter one PALLET (or twelve pieces) of item no. LS-81. Variants of an item can also be entered in the Items Identifier, the same way as entering the unit of measure information.

Key Functions

Many users might prefer to have different key functions to operate their hand-held device than the default setup from the manufacturer. It is possible to change these key functions as long as you use the key sequence. You can take the string and change it from one function to another, but you cannot change the sequence.

To access the key functions:

Open your Windows Notebook, and from your ADCS folder select file VT100.XSL.



```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:output method="xml"/>

<xsl:template match="*">
  <xsl:copy>
    <xsl:copy-of select="@*" />
    <xsl:apply-templates/>
  </xsl:copy>
</xsl:template>

<xsl:template match="Function[.='ESC']">
  <Function Key1="27"><xsl:value-of select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='FIRST']">
  <Function Key1="27" Key2="79" Key3="80"><xsl:value-of select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='LAST']">
  <Function Key1="27" Key2="79" Key3="81"><xsl:value-of select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='REGISTER']">
  <Function Key1="27" Key2="79" Key3="82"><xsl:value-of select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='RESET']">
  <Function Key1="27" Key2="79" Key3="83"><xsl:value-of
select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='PGUP']">
  <Function Key1="27" Key2="91" Key3="65"><xsl:value-of
select="."/></Function>
</xsl:template>

<xsl:template match="Function[.='PGDN']">
  <Function Key1="27" Key2="91" Key3="66"><xsl:value-of select="."/></Function>
</xsl:template>

<xsl:template match="Functions">
  <xsl:copy>
    <xsl:copy-of select="Function/@*" />
    <Function Key1="27" Key2="91" Key3="68">SCRLUP</Function>
    <Function Key1="27" Key2="91" Key3="67">SCRLDN</Function>
  </xsl:copy>
</xsl:template>

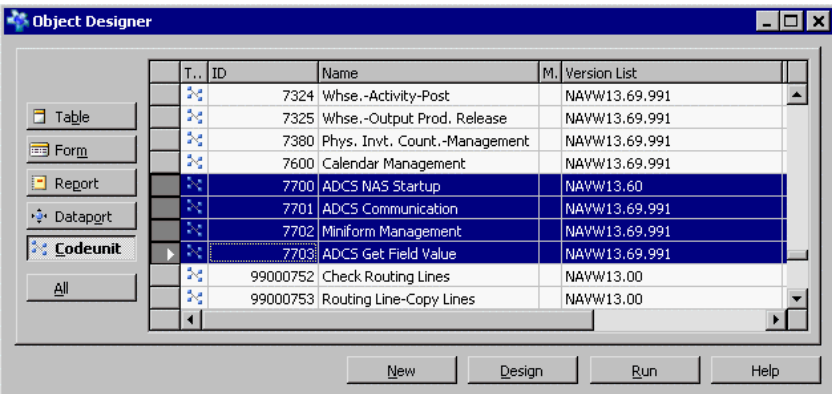
```

By using a simple text editor, you are able to change the function keys.

New Forms, Tables and Code Units

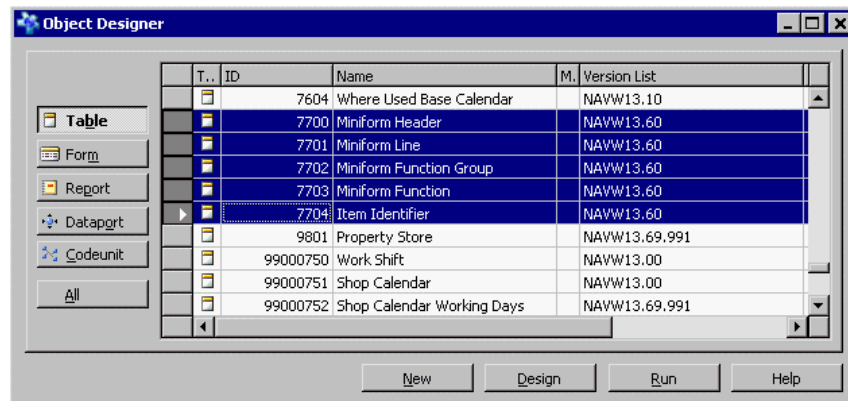
In the creating process of the ADCS functionality, new coding has been added to the Navision product. The ADCS has been restricted to the 7700 number series.

Code Units:

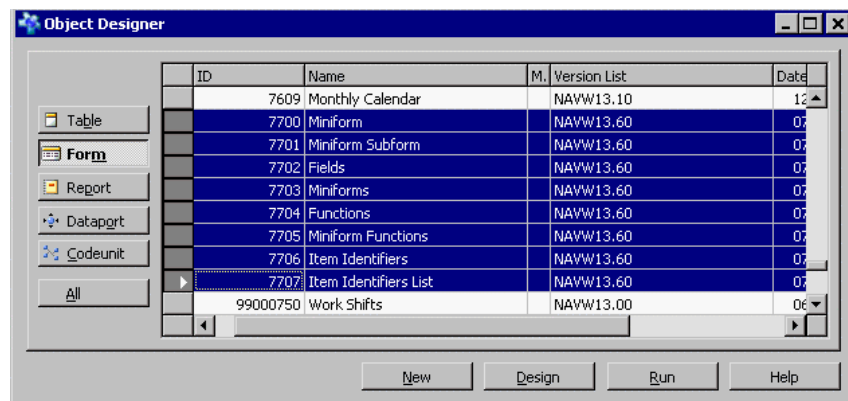


T..	ID	Name	M.	Version List
	7324	Whse.-Activity-Post		NAVW13.69.991
	7325	Whse.-Output Prod. Release		NAVW13.69.991
	7380	Phys. Invt. Count.-Management		NAVW13.69.991
	7600	Calendar Management		NAVW13.69.991
	7700	ADCS NAS Startup		NAVW13.60
	7701	ADCS Communication		NAVW13.69.991
	7702	Miniform Management		NAVW13.69.991
	7703	ADCS Get Field Value		NAVW13.69.991
	99000752	Check Routing Lines		NAVW13.00
	99000753	Routing Line-Copy Lines		NAVW13.00

Tables:




Forms:



Appendix A.

List of typical problems

This appendix contains a list of typical problems that you may experience when installing and configuring Automated Data Capture Systems for Microsoft Navision.



List of typical problems

Problem	Solution
<p>You get an error in the Event Viewer saying:</p> <p>You must specify a parameter for Codeunit 1 Trigger 99. This trigger is executed when starting up Microsoft Navision Application Server.</p>	<p>Cause:</p> <p>You have forgotten to specify the Start-up Parameter Value ADCS,NAS1 in the Microsoft Navision Application Server Management window.</p> <p>Correction:</p> <p>Specify the correct parameter in the Microsoft Navision Application Server Management window and try again.</p>
<p>You get an error in the Event Viewer saying:</p> <p>Trigger 99 in Codeunit 1 does not exist. This Trigger must be executed to establish connection to the Message Bus.</p>	<p>Cause:</p> <p>This error means that the Database Server either:</p> <ul style="list-style-type: none">• Is not available• Is available but can not access the database• The database is not the correct version <p>Correction:</p> <p>Check that the Database Server can connect to the database by opening a normal Microsoft Navision Client, click File, Database, Open and enter localhost in the Server Name field. Click OK. Press F12 to open the Main Menu. If that fails, the Database Server can not connect to the database.</p> <p>You need to sort the connection to the database out before you can progress.</p>

<p>Everything is installed correctly but when you start HyperTerminal nothing happens</p> <p>You also get a warning in the Event Viewer saying that the TCP/IP address has not been identified.</p>	<p>Cause:</p> <p>You may not have logged on to the correct Domain Server.</p> <p>Solution:</p> <p>Make sure that you actually have a network cable attached to the PC and that you have logged on to the Domain Server that you indicated in the Log On tab for Microsoft Navision Application Server properties i.e. nsw1.</p>

Appendix B.

Terminology list

This appendix contains the terminology list for Automated Data Capture Systems for Microsoft Navision.



ADCS Terminology List

Name	Description
Access Points	An Access Point is a hardware relay between a hand-held device and the PC that runs the Plug-in.
ADCS device	Automated Data Capture System: Any device such as a bar code reader or optical character reader that mechanizes the entry of information into an information system.
EAN	European Article Number, a standardized item number. This number must be uniquely assigned to a single item.
Hand-held	A device similar to that as described in ADCS, but using a display as the user interface to display data and as a means to guide him.
Miniform	A way to define and display the contents and appearance of the data and functions used on the hand-held.
MSXML DOM	The XML Document Object Model (DOM) provides a standardized way to access and manipulate the information stored in XML documents. The DOM application-programming interface (API) serves as a bridge between applications and XML documents.
Named Pipes	<p>A named pipe is a named, one-way or duplex pipe for communication between the pipe server and one or more pipe clients.</p> <p>Named pipes can be used to provide communication between processes on the same computer or between processes on different computers across a network.</p>

VT100	Introduced by DEC in August 1978, Video Terminal 100 was the first terminal to use a general-purpose processor for interpreting the newly published (1977) ANSI control codes (ANSI X3.64).
XML	A character-based data format for structured document exchange that is optimized for delivery over the Internet. XML consists of data elements including both the actual data content and a description of the content.
XSLT/XML Parser	A function of the MSXML DOM, which loads the XML or XSLT from a string or file into the MSXML DOM object.
XML/XSLT Multiplexer	A device that can interleave two or more independent data streams into one. With multiplexing, many messages can be transmitted simultaneously in one network channel, and several computers can retrieve data in a network simultaneously.
XSLT	A language that is used to reformat XML documents into other XML documents. A transformation in the XSLT language is expressed as well-formed XML.
Plug-in	An accessory software program that extends the capabilities of an existing application.