

SIEMENS

SINUMERIK

SINUMERIK Integrate Analyze MyCondition (AMC), Access MyMachine/Ethernet (AMM/E)

Installation Manual

Preface

Fundamental safety instructions	1
---------------------------------	----------

Introduction	2
--------------	----------

Analyze MyCondition (AMC) client setup	3
--	----------

Access MyMachine/Ethernet (AMM/E) client setup	4
--	----------

Configuring ASC-SE/ASC-MO	5
---------------------------	----------

Appendix	A
----------	----------

Valid for control:
SINUMERIK 840D, SINUMERIK 840D sl/ 840DE sl
SINUMERIK 828D
Software
SINUMERIK Integrate, version 4.1 SP7
AMC, version 4.13 SP7
AMM/E, version 4.1 SP7

06/2017

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Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.
--

 WARNING
--

indicates that death or severe personal injury may result if proper precautions are not taken.

 CAUTION
--

indicates that minor personal injury can result if proper precautions are not taken.
--

NOTICE

indicates that property damage can result if proper precautions are not taken.
--

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

 WARNING
--

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.
--

Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Preface

SINUMERIK documentation

The SINUMERIK documentation is organized into the following categories:

- General documentation/catalogs
- User documentation
- Manufacturer/service documentation

Additional information

You can find information on the following topics at the following address (<https://support.industry.siemens.com/cs/de/en/view/108464614>):

- Ordering documentation/overview of documentation
- Additional links to download documents
- Using documentation online (find and search in manuals/information)

If you have any questions regarding the technical documentation (e.g. suggestions, corrections), please send an e-mail to the following address (<mailto:docu.motioncontrol@siemens.com>).

mySupport/Documentation

At the following address (<https://support.industry.siemens.com/My/ww/en/documentation>), you can find information on how to create your own individual documentation based on Siemens' content, and adapt it for your own machine documentation.

Training

At the following address (<http://www.siemens.com/sitrain>), you can find information about SITRAIN (Siemens training on products, systems and solutions for automation and drives).

FAQs

You can find Frequently Asked Questions in the Service&Support pages under Product Support (<https://support.industry.siemens.com/cs/de/en/ps/faq>).

SINUMERIK

You can find information about SINUMERIK at the following address (<http://www.siemens.com/sinumerik>).

Target group

This document addresses commissioning engineers and machine tool manufacturers. The document provides detailed information that commissioning engineers require to commission the SINUMERIK Integrate software.

Benefits

The software installation manual instructs the target group on how to install and uninstall the software correctly.

Standard scope

This documentation describes the functionality of the standard scope. Additions or revisions made by the machine manufacturer are documented by the machine manufacturer.

Other functions not described in this documentation might be executable in the control system. This does not, however, represent an obligation to supply such functions with a new control or when servicing.

For the sake of simplicity, this documentation does not contain all detailed information about all types of the product and cannot cover every conceivable case of installation, operation, or maintenance.

Security information on the product

Note

SINUMERIK Integrate

The SINUMERIK Integrate product is available as standalone (intranet) version or in cloud operation (ASP).

- Standalone (intranet):
Read and write access to the file system and resources of the operating system of the SINUMERIK Integrate server is enabled only for users with administrator rights.
- Cloud mode (ASP):
Siemens AG as operator ensures the security of the SINUMERIK Integrate server.
Customers must only ensure the security of the infrastructure on the machine side.

Further information about server operation can be found at Industrial Security Configuration Manual (<https://support.industry.siemens.com/cs/us/en/view/108862708>).

NOTICE
Misuse of data
<p>It is essential to use secure data storage when saving your data - particularly your confidential data. It is best to store this data encrypted locally or encrypted on the network. Make sure that this data cannot be accessed by unauthorized personnel.</p> <p>This applies to the following data:</p> <ul style="list-style-type: none">• Archive files• Image files• Project files• Trace files• Safety-relevant files <p>Further information on secure data storage can be found at Industrial Security Configuration Manual (https://support.industry.siemens.com/cs/us/en/view/108862708).</p>

NOTICE
Danger due to insecure Internet connection
<p>Before establishing a network connection, ensure your PC is connected to the Internet via a secure connection. Pay attention to the security-relevant notes. Further information about communications security can be found at Industrial Security Configuration Manual (https://support.industry.siemens.com/cs/us/en/view/108862708).</p>

NOTICE
Security risk through administrator rights
<p>If you operate a PC with permanent administrator rights, there is an increased security risk. Therefore, ensure that there is a secure operating environment, and assign administrator rights only temporarily and selectively.</p> <p>Further information on the secure administration of user accounts and the assignment of rights can be found at Industrial Security Configuration Manual (https://support.industry.siemens.com/cs/us/en/view/108862708).</p>

EC Declaration of Conformity

The EC Declaration of Conformity for the EMC Directive can be found on the Internet at the following address (<https://support.industry.siemens.com/cs/https://support.industry.siemens.com/cs/ww/de/ps/14604/certww/en/ps/13231/cert>).


Table of contents


	Preface	3
1	Fundamental safety instructions	9
1.1	General safety instructions.....	9
1.2	Warranty and liability for application examples.....	10
1.3	Industrial security.....	11
2	Introduction	13
2.1	Product overview.....	13
2.2	Application areas and interaction.....	15
2.3	System preconditions.....	17
3	Analyze MyCondition (AMC) client setup	19
3.1	Overview.....	19
3.2	Machine with SINUMERIK Operate.....	20
3.2.1	Display the "SINUMERIK Integrate" softkey.....	20
3.2.2	Release applications.....	20
3.2.3	Locking applications.....	22
3.2.4	Installing the basis installation.....	23
3.2.4.1	Basis installation, installing Installer.....	23
3.2.4.2	App installation, installing Base Setup.....	24
3.2.5	Configuring proxy settings.....	28
3.2.6	Proxy authentication.....	29
3.2.7	Configuring URL settings.....	32
3.2.8	Uninstalling the basis installation.....	34
3.2.8.1	App installation, uninstalling Base Setup.....	34
3.2.8.2	Basis installation, uninstalling Installer.....	35
3.2.9	Client update of SINUMERIK Integrate.....	36
3.2.9.1	Requirement.....	36
3.2.9.2	Client update under Windows.....	36
3.2.9.3	Client update under Linux.....	40
3.3	Machine with HMI-Advanced.....	45
3.3.1	Installing SINUMERIK Integrate client.....	45
3.3.2	Correcting connection problems.....	57
3.3.3	Importing the root certificate.....	60
3.3.4	Configuring user-specific parameters - expert mode.....	65
3.3.4.1	Overview of the expert mode.....	65
3.3.4.2	Configuring URL settings.....	66
3.3.4.3	Configuring Internet access.....	67
3.3.4.4	Selecting a driver.....	71
3.3.4.5	Specifying data volumes and protocol settings.....	73
3.3.4.6	Specifying the target directory data buffering.....	75
3.3.4.7	Changing the log file target directory.....	77

3.3.4.8	Changing the download method for the boot script.....	79
3.3.4.9	Changing the start parameter client.....	81
3.3.4.10	Changing the time synchronization between PLC and HMI.....	83
3.3.5	Integrating the client setup as external applications.....	84
3.3.6	Changing, repairing and uninstalling programs.....	87
3.4	Machine PC.....	93
3.4.1	Installing SINUMERIK Integrate client (IPC).....	93
3.5	Workstation PC.....	108
3.5.1	Client setup	108
4	Access MyMachine/Ethernet (AMM/E) client setup.....	109
4.1	Overview.....	109
4.2	Machine with SINUMERIK Operate.....	111
4.2.1	Installing the AMM/E SE.....	111
4.2.2	Installation/Update AMM/E SE (ASC-MO).....	111
4.2.3	Uninstalling AMM/E Service Client.....	114
4.3	Machine with HMI-Advanced.....	115
4.3.1	Teleservice Client-Update.....	115
4.3.2	Installation/Update AMM/E SE (ASC-MO).....	117
4.3.3	Configuring SINUMERIK Integrate client.....	119
4.3.4	Uninstalling client setup.....	133
4.4	Machine PC.....	136
4.4.1	Configuring SINUMERIK Integrate Client SE (IPC).....	136
4.5	Workplace PC.....	149
4.5.1	Installing AMM/E Service Client SE Client-Setup.....	149
4.5.2	Uninstalling AMM/E Service Client SE.....	155
5	Configuring ASC-SE/ASC-MO.....	157
5.1	Overview.....	157
5.2	Setting the log-on data.....	158
5.3	Setting the file transfer.....	159
5.4	Entering the address of a proxy server.....	161
5.5	Setting/changing the language.....	163
5.6	Setting the log file.....	165
5.7	Activating functions.....	167
A	Appendix.....	169
A.1	List of abbreviations.....	169
A.2	Documentation overview SINUMERIK 840D sl.....	172
	Index.....	173

Fundamental safety instructions

1.1 General safety instructions

 WARNING
Danger to life if the safety instructions and residual risks are not observed
If the safety instructions and residual risks in the associated hardware documentation are not observed, accidents involving severe injuries or death can occur.
<ul style="list-style-type: none">• Observe the safety instructions given in the hardware documentation.• Consider the residual risks for the risk evaluation.

 WARNING
Malfunctions of the machine as a result of incorrect or changed parameter settings
As a result of incorrect or changed parameterization, machines can malfunction, which in turn can lead to injuries or death.
<ul style="list-style-type: none">• Protect the parameterization (parameter assignments) against unauthorized access.• Handle possible malfunctions by taking suitable measures, e.g. emergency stop or emergency off.

1.2 Warranty and liability for application examples

The application examples are not binding and do not claim to be complete regarding configuration, equipment or any eventuality which may arise. The application examples do not represent specific customer solutions, but are only intended to provide support for typical tasks. You are responsible for the proper operation of the described products. These application examples do not relieve you of your responsibility for safe handling when using, installing, operating and maintaining the equipment.

1.3 Industrial security

Note

Industrial security

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens products and solutions only represent one component of such a concept.

The customer is responsible for preventing unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit:

Industrial security (<http://www.siemens.com/industrialsecurity>).

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed at:

Industrial security (<http://www.siemens.com/industrialsecurity>).

WARNING

Unsafe operating states resulting from software manipulation

Software manipulations (e.g. viruses, trojans, malware or worms) can cause unsafe operating states in your system that may lead to death, serious injury, and property damage.

- Keep the software up to date.
- Incorporate the automation and drive components into a holistic, state-of-the-art industrial security concept for the installation or machine.
- Make sure that you include all installed products into the holistic industrial security concept.
- Protect files stored on exchangeable storage media from malicious software by with suitable protection measures, e.g. virus scanners.

Introduction

2.1 Product overview

Overview of the applications

As a whole, applications are available that completely cover all aspects of integrating machines into your communication, engineering and production processes.

Harmonized to address your particular requirements, you can access the following applications of SINUMERIK Integrate:

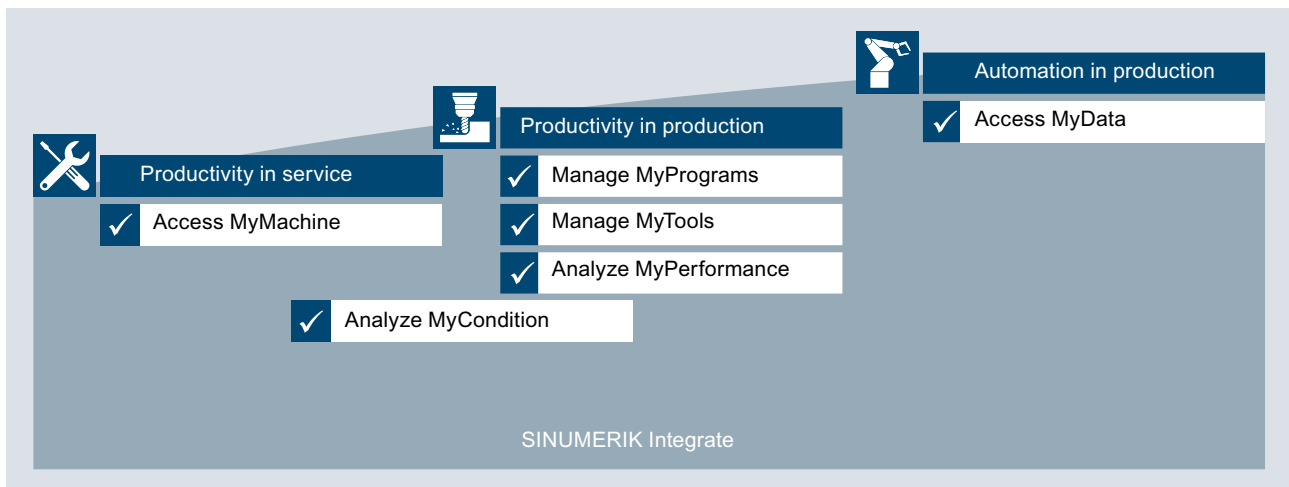


Figure 2-1 Overview

Delivery format

The latest packages and further information on the applications are stored on PridaNet and can be downloaded directly from there.

Client setup directory

The client setups can be found in the following directories:

AMC

Sinumerik_Integrate_Clients > SinInt > Operate > Version > Linux/Windows

or

Sinumerik_Integrate_Clients > SinInt > HMI_Advanced

AMM/E

The AMM/E Service Client Setup is located in the following directory:

Sinumerik_Integrate_Clients > AMM > AMM-ServiceClient-MO

Regular software updates

The security patches regularly supplied by Microsoft are checked by the Cloud mode (ASP) operator for compatibility with the current version of SINUMERIK Integrate by way of an internal system test and are then released. An overview of the patch compatibility is generally given shortly after the release of the security patch on the Service & Support Portal of Siemens Industry Automation and Drive Technologies.

Additional software

SINUMERIK Integrate additionally uses the following software:

Software that was developed for "OpenSSL" to use the "OpenSSL Toolkit" (<http://www.openssl.org/>).

Software that was developed for "OpenEvidence" to use the "OpenEvidence Toolkit" (<http://www.open-evidence.com/about/>).

Cryptographic software written by Eric Young (eay@cryptsoft.com).

Software written by Tim Hudson (tjh@cryptsoft.com).

Software developed by Bodo Moeller.

Example: Remote access Access MyMachine (AMM/E)

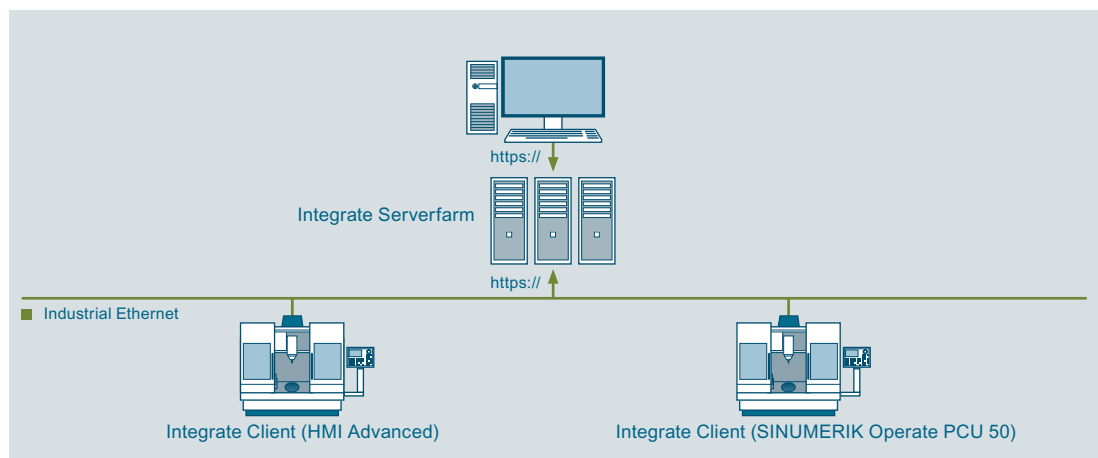


Figure 2-2 Overview AMM/E

2.2 Application areas and interaction

In order to integrate machine tools into SINUMERIK Integrate, various server and client setups are required, depending on the computer version.

Note

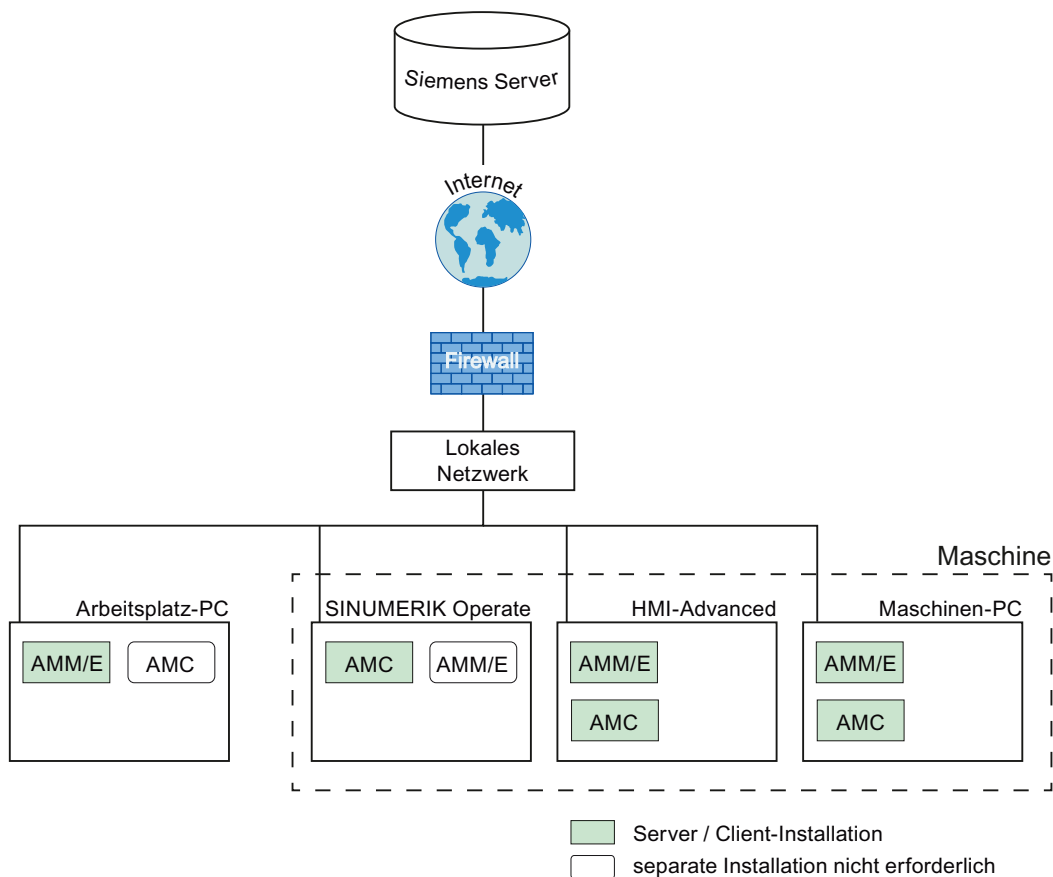
Combining SINUMERIK Integrate applications

- A machine can only be connected with one server. It is not possible to distribute applications across various servers (Siemens **and** local servers).
- Parallel operation with the MindApp "Manage MyMachines" is not possible.

SINUMERIK Integrate in Cloud mode (ASP)

This server is provided by Siemens and need not be installed on the customer's premises. The software functions are retrieved via the Internet and global telecommunication infrastructures.

The following section gives an overview of server/client installations if SINUMERIK Integrate is operated via the Siemens server.



Installation

Clients can be installed in different ways:

Client installation:

- Installation via network
- Installation via USB interface

Client installation

You must install the appropriate clients, depending on the version of your PC, IPC or machine.

You can install the client as follows:

- Via PridaNet
- Via the USB interface

The following overview table shows which client setup is required on IPCs, PCs and machines.

Analyze MyCondition (AMC)	
Machine with SINUMERIK Operate	
Basic installation: Installer Base Setup	X
Client setup SINUMERIK Integrate (SI)	X
Machine with HMI-Advanced	
Client setup SINUMERIK Integrate (SI)	X
Machine PC (IPC)	
Client setup SINUMERIK Integrate (SI)	X
Workplace PC	
Client setup SINUMERIK Integrate (SI)	X

2.3 System preconditions

To operate SINUMERIK Integrate Analyze MyCondition or SINUMERIK Integrate Access MyMachine/Ethernet, it is essential that the system requirements listed in the tables below are fulfilled depending on their user version. The use of SINUMERIK Integrate Analyze MyCondition or SINUMERIK Integrate Access MyMachine/Ethernet under different basic conditions is explicitly not supported!

NOTICE
Operational safety jeopardized
If the system requirements are not observed, functional restrictions may occur. This may also jeopardize operational safety!

Hardware and software requirements

As a minimum, the following hardware and software requirements must be met:

Product	SINUMERIK Integrate 4.1 SP7	
Applications	AMC 4.13 SP7	AMM/E 4.1 SP7 ¹⁰⁾
Workplace PC		
Processor	at least 1-GHz processor	
RAM (GB)	min. 4	
Free hard disk capacity (GB) ¹⁾	min. 1	
Operating systems	Windows 7 SP1 (x64) Professional/Enterprise/Ultimate ¹⁾	
	Windows XP SP2 (x32) Professional Windows XP Embedded (x32) SP3 Standard	
Web browser		
Microsoft Internet Explorer	IE11 with Compatibility Mode	
Machine PC		
Processor	1 GHz processor	
RAM (GB)	4	
Free hard disk capacity (GB) ¹⁾	1	
Operating systems	Windows 7 SP1 (x64) Professional/Enterprise/Ultimate ¹⁾³⁾	
	Windows XP SP3 (x32) Professional	
Web browser		
Microsoft Internet Explorer ⁹⁾	IE10, IE11 with comp. mode	
Databases	-	
Machine⁴⁾⁵⁾		
SINUMERIK 840D sl with SINUMERIK Operate	As of 2.6 SP1 HF5 ⁷⁾ As of 2.7 / 4.4 SP4 HF2 As of 4.5 SP4 As of 4.7 SP2 HF1	

2.3 System preconditions

Product	SINUMERIK Integrate 4.1 SP7	
Applications	AMC 4.13 SP7	AMM/E 4.1 SP7 ¹⁰⁾
Hardware	As of NCU 710.3 As of NCU 720.2 As of NCU 730.1 As of PCU 50.3 (Windows XP SP3 or higher)	
SINUMERIK 840D with HMI-Advanced⁶⁾	As of 7.3 SP3	
Hardware	As of PCU 50.3 ⁸⁾	
Free hard disk capacity	Not specified	
Database	-	
Screen resolution	640 x 480 800 x 600 1024 x 768 1280 x 768 (Ergoline Panel) ²⁾ 1280 x 1024 800 x 480 (16:9.6; TP 900) 1366 x 768 (16:9; WXGA (TV)) 1280 x 800 (16:10; TP 1200)	

- 1) The Aero desktop representation under Windows 7 is not supported.
- 2) Not released for SINUMERIK Operate 2.6.
- 3) Embedded operating systems are not supported.
- 4) The SINUMERIK software versions that can actually be used are verified within the framework of the Q-Gate.
- 5) No data regarding the processor and operating system, as these parameters are specified by the hardware components.
- 6) To increase the fault tolerance, a RAID1 system with two hard disks (73 GB each) is recommended.
- 7) Restricted functional scope for AMM Remote STEP 7 is NOT available for HMI-Advanced and SINUMERIK Operate under Windows (PCU).
- 8) PCU 50.3 available with Windows XP SP3 or higher.
- 9) Only Internet Explorer 32-bit version has been released for the AMM Service Client MO.
- 10) SINUMERIK Integrate ASC-MO Client is available in Cloud mode (ASP) with Windows XP SP3 or higher and only with SINUMERIK Integrate V04.01.07 or higher.

Analyze MyCondition (AMC) client setup

3.1 Overview

Requirements

You require the following access authorization to install and uninstall client setups: Access level 1 (password: machine manufacturer).

Overview

The following section describes the client installation of Analyze MyCondition (AMC) for the following workplaces:

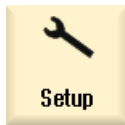
- Machine with SINUMERIK Operate (Page 20)
- Machine with HMI-Advanced (Page 45)
- Machine PC (Page 93)
- Workstation PC (Page 108)

3.2 Machine with SINUMERIK Operate

3.2.1 Display the "SINUMERIK Integrate" softkey

The softkey on the user interface to call SINUMERIK Integrate is activated by a display machine data.

Procedure



1. At the control system, start the SINUMERIK Operate operating software.
2. Press the "Commissioning" and "Masch. data" softkeys.

3. Press the menu forward key and press the "Display MD" softkey.

4. Set the machine data
MD9108 \$MM_SINUMERIK_INTEGRATE to "1".
The "SINUMERIK Integrate" softkey is displayed on the extended horizontal softkey bar.

- OR -

If you are working on a control with operating software up to V4.5.1, the machine data is:

MD9108 \$MM_ENABLE_EPS_SERVICES.

Set the machine data to "1."

The "ePS Network services" softkey is displayed on the extended horizontal softkey bar.

3.2.2 Release applications

When installing the applications for the first time, SINUMERIK Integrate is always stopped, and you must enable the applications.

During operation on the controller, you have the possibility to stop SINUMERIK Integrate again, see chapter: Locking applications (Page 22)

Procedure



1. SINUMERIK Operate is started.
2. Press the menu forward key and press the "SINUMERIK Integrate" softkey.



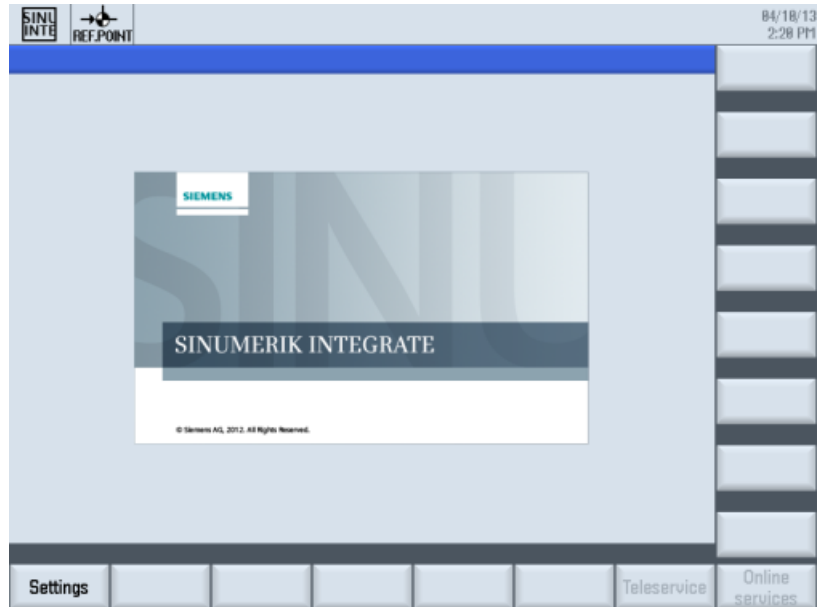
If the softkey is not displayed in the horizontal bar, then you must first enable the softkey, see chapter: Display the "SINUMERIK Integrate" softkey (Page 20).



- OR -

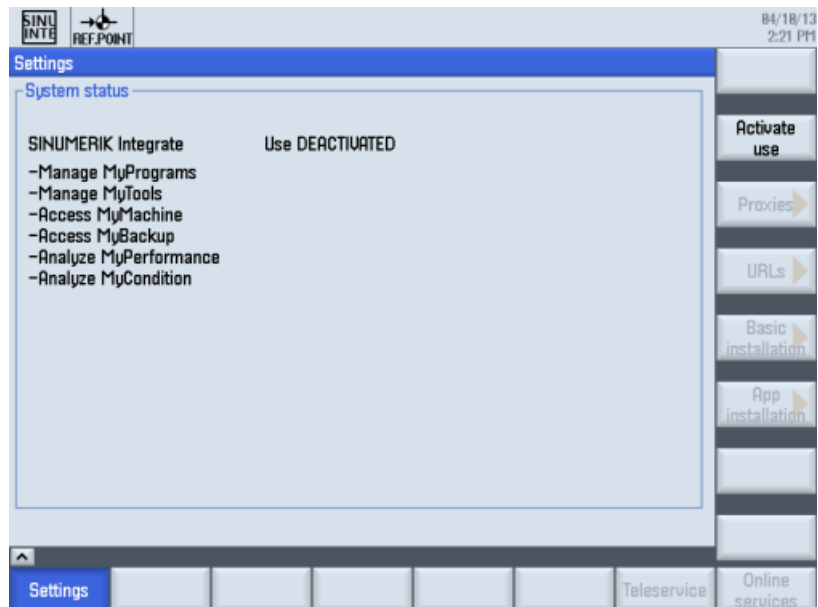
If you are working on a control with operating software up to V4.5.1, the softkey with the previous designation "ePS Network services" is displayed instead of the "SINUMERIK Integrate" softkey.

The welcome window opens.



3. Press the "Settings" softkey.

The "Settings" window opens displaying the system status "Use LOCKED".





4. Press the "Enable use" softkey to activate SINUMERIK Integrate.
You obtain the safety prompt "Do you really want to enable the use of SINUMERIK Integrate applications?"



5. Press the "OK" softkey to confirm the confirmation prompt.
The use of SINUMERIK Integrate applications is enabled.



- OR -
- Press the "Cancel" softkey.
The applications are not enabled, and the previous window is displayed.

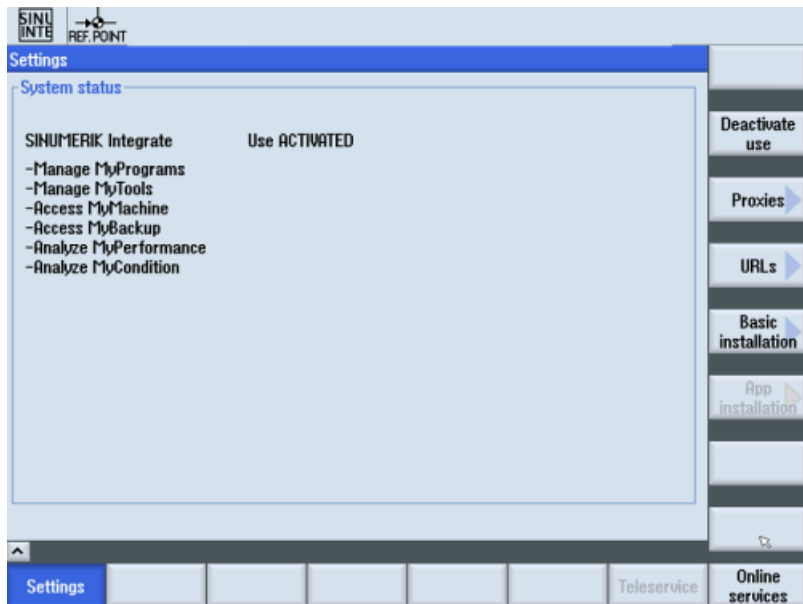
3.2.3 Locking applications

You can stop SINUMERIK Integrate if you do not need the applications during operation at the control system.

Procedure



1. The "Settings" window is displayed.
Use is enabled for SINUMERIK Integrate applications.
Select the "Inhibit use" softkey to inhibit the applications.



2. The following confirmation warning is displayed:
"Do you really wish to inhibit the use of SINUMERIK Integrate applications?"



3. Select the "OK" softkey to confirm the confirmation warning.
- OR -



- Select the "Cancel" softkey not to stop SINUMERIK Integrate.

4. After the applications have been inhibited, the following message is displayed in the "Settings" window: "SINUMERIK Integrate use LOCKED".
5. Then restart the control system.

3.2.4 Installing the basis installation

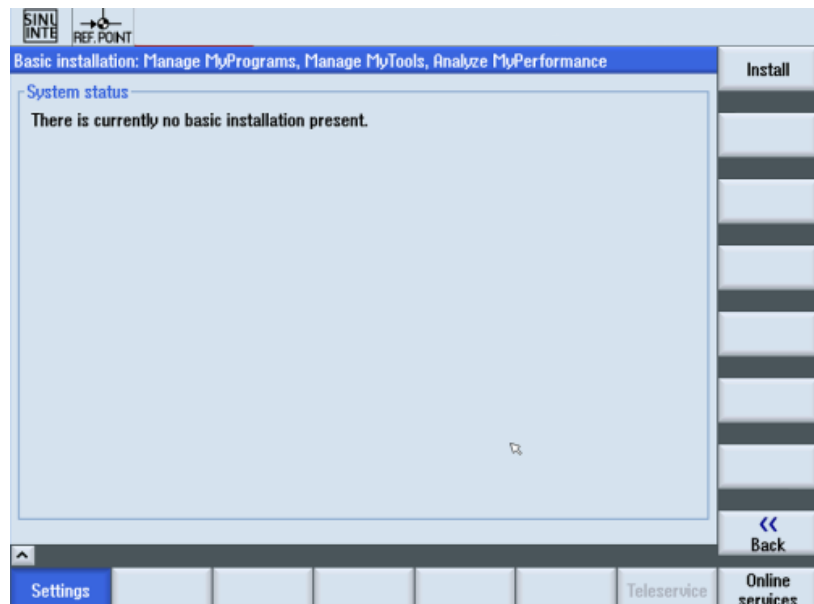
3.2.4.1 Basis installation, installing Installer

Requirement

The use of SINUMERIK Integrate applications must be enabled.

Procedure

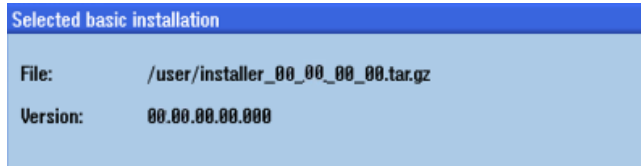
1. The "Settings" window is displayed.
Press the "Basic Installation" softkey.
An appropriate status message is displayed as to whether the basic installation has already been installed.
If the basic installation is not yet performed, press the "Install" softkey.



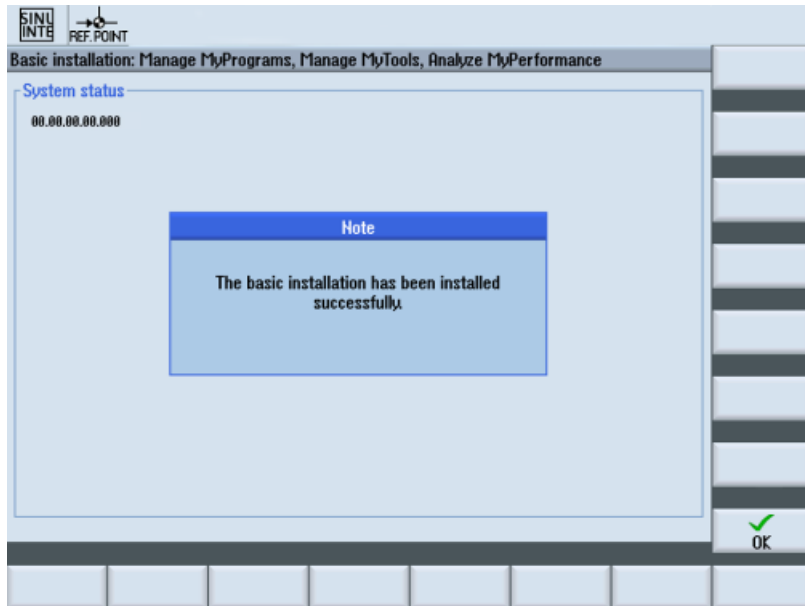
2. The "Select Basic Installation" window opens and the directory overview is displayed.
If the data is on a USB flash drive, for example, position the cursor on the "installer_00_00_00_00.tar.gz" file. (In place of "00_00_00_00", the current version is displayed.)
Press the "OK" softkey.



- 3. An appropriate message pertaining to the selected software, its directory and version is displayed.
Press the "OK" softkey to install the package.
- OR -
Press the "Cancel" softkey if you do not wish to install the selected package.



- 4. The installation is started, and the progress is displayed with a progress bar. A message window is then displayed showing that the installation was successful.
The applications covered by the basic installation are displayed in the title bar.
Press the "OK" softkey to complete the installation.





3.2.4.2 App installation, installing Base Setup

Requirements

The basic installation installer is installed.

Installed applications

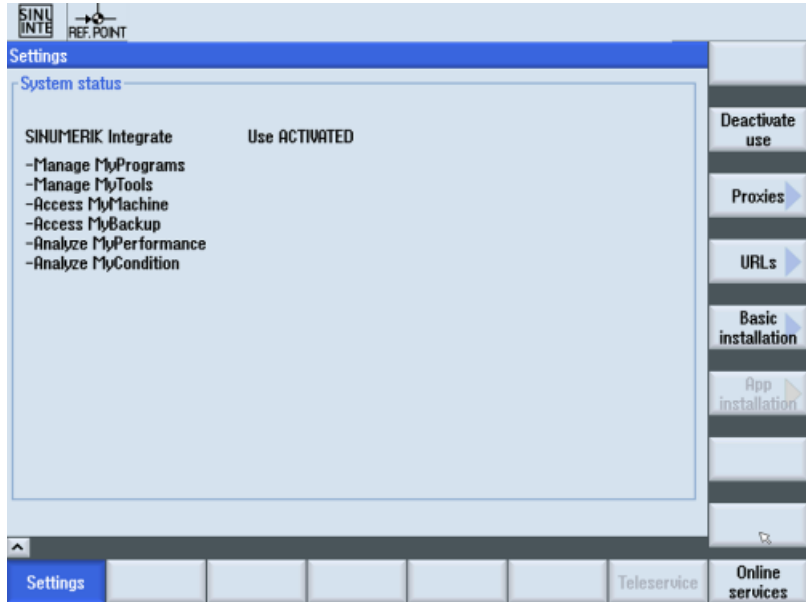
The installed applications are displayed as an overview in the "App Installation" window.

Function	Description
Application name	Installed application
Actual version	Version number of the installed version. In place of the current version, "00.00.00.000" is always displayed in the subsequent illustrations.
Reference version	 Actual version (effective version = installed version) and reference version (nominal version) match.
	 Reference and actual versions do not match.

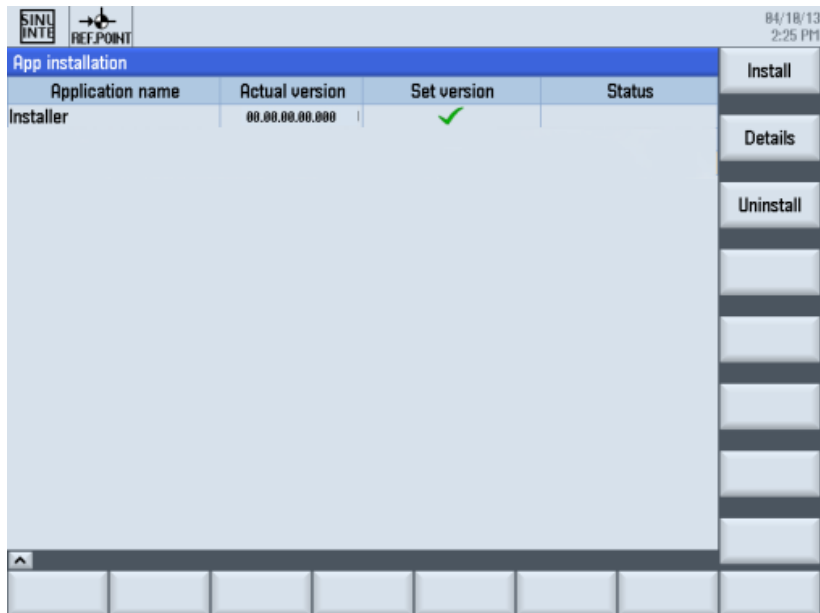
Procedure



1. The "Settings" window is open and the use of SINUMERIK Integrate is enabled.
Press the "App Installation" softkey.



2. The "App Installation" window is opened and shows the applications that have already been installed.



3. Select the "Install" softkey.
The "Select Basic Installation" window is opened and a directory overview is displayed.



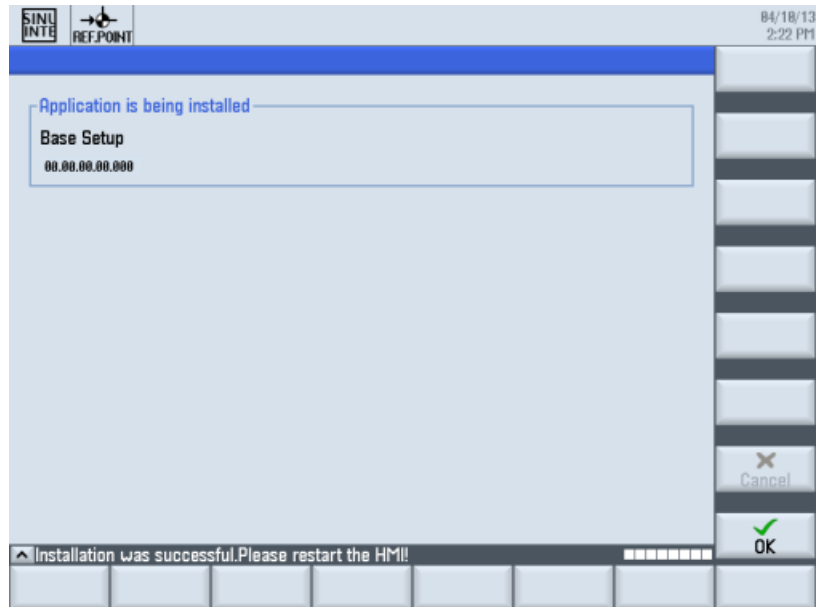
- If the data is on a USB flash drive, for example, position the cursor on the "basesetup_00_00_00_00.tar.gz" file (instead of "00_00_00_00_000", the version currently installed on the control system is displayed).
Select the "OK" softkey.



- A confirmation message is displayed, which you must confirm with the "OK" softkey.
The installation is started, and the progress is displayed by way of a progress bar.



- Subsequently, an appropriate message is displayed as to whether the installation was successful, and the installed application is displayed under "Application is being installed."
Select the "OK" softkey.
The control system is restarted and activates the application.



- The "App Installation" window is displayed with the applications that have already been installed, specifying the version numbers. (In place of "00.00.00.00.000", the current version is displayed.)

App installation			
Application name	Actual version	Set version	Status
Installer	00.00.00.00.000	✓	
Base Setup	00.00.00.00.000	✓	



- For additional information on the individual applications, select the appropriate application and then the "Details" softkey.

3.2.5 Configuring proxy settings

- Cloud mode (ASP): The settings for connection to the Siemens server are either fixed or can be selected by default.
- Standalone (intranet): If you perform a local installation and are connected with the Internet via a proxy server, you can individually adapt the proxy settings.

Requirement

The applications are installed.

You are using a machine with SINUMERIK Operate, as of version 4.5.3.

Proxy settings

Function	Description
Proxy settings enabled	Generally use proxy settings.
Directory	The following directories are offered in the drop-down list: <ul style="list-style-type: none"> • Siemens (data cannot be changed) • OEM • Addon • User
Automatic	The proxy settings are determined automatically.
Use proxy script	Use the following proxy settings.
URL (proxy script)	Individual address input of the proxy.
Use fixed proxy	Use the following proxy settings.
Proxy 1 Proxy 2 Proxy 3	Specify a maximum of three proxy settings.
Direct	Establish connection without proxy.

You can select for each setting by activating or deactivating the checkbox whether or not to overwrite the entry.

Procedure



1. The "Settings" window is open.
Press the "Proxys>" softkey.
The current settings are displayed.



2. Press the "Edit" softkey to change the server access data.
Activate the "Overwrite here" checkbox to accept the new entry.

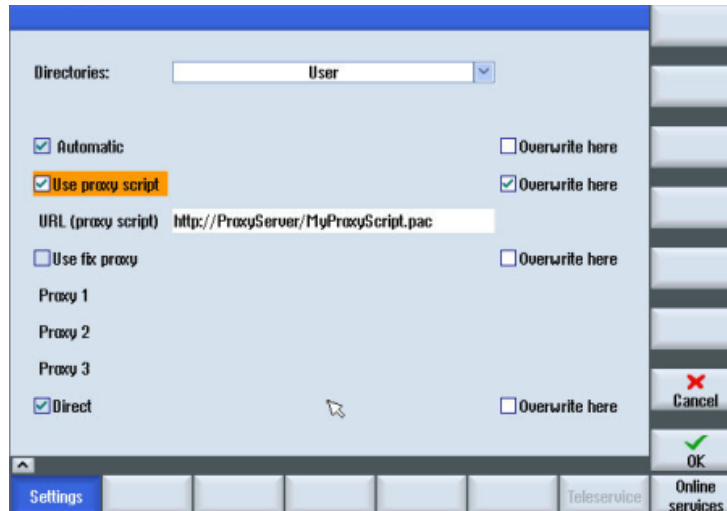




3. Press the "OK" softkey.
A syntax check is performed and the access data is saved.
4. To enable the access data, restart the control system.

Example

You can enter only one script proxy and activate the general use in the user directory. Additional entries are determined from the other directories.



3.2.6 Proxy authentication

To perform an authorization, you must enter the necessary proxy authentication data.

Introduction

The following proxy authentication procedures are supported:

NTLM - Microsoft Windows NT Challenge/Response authentication

For the NTLM authentication protocols, users are authenticated based on a challenge and response mechanism. This mechanism proves to a server or domain controller that a user knows the password that is linked to an account.

BASIC

The Basic Authentication as per RFC 2617 is the most common type of HTTP authentication:

A web server requests authentication. The application then searches for a user name / password for this URL and possibly prompts the user. Then the application sends the authentication with the authorization header in the form of the user name: Password Base64 encoded to the web server.

KERBEROS

The Kerberos protocol is an authentication mechanism for identifying a user or host identity. With the aid of the Kerberos protocol, a node can check at both ends of a network connection to see whether the node on the other end is the entity that it is specified to be.

Note

Individual adaptation

Individually adapt the settings for the proxy authentication to the specific IT environments.

To do this, contact the responsible network operator / IT technician at the site of the machine in order to get the necessary access data.

Authentication data

Function	Description
Domain:	Entry of a domain for a Microsoft Windows domain user.
User name:	Entry of the user name for authentication on the proxy server.
Password:	Entry of the password for authentication on the proxy server.
Workstation:	Optional setting for an NTLM authorization proxy server.
Directory:	<p>Set authentication data for the desired level. The default setting is "Siemens".</p> <p>As with the data structure of SINUMERIK Operate, you can define settings for each level.</p> <ul style="list-style-type: none"> • User • OEM • Addon • Siemens <p>The various settings are merged. Settings for "user" have priority over settings in "oem", etc. The settings for "Siemens" represent the original state and cannot be changed.</p>

By activating and deactivating the appropriate checkboxes, for each setting you can select whether the entry should be overwritten.

Procedure



1. The "Settings" window is open.
Press the "Proxys>" softkey.
The current settings are displayed.



2. Press the "Credentials" softkey to enter the data for authenticating on the proxy server.

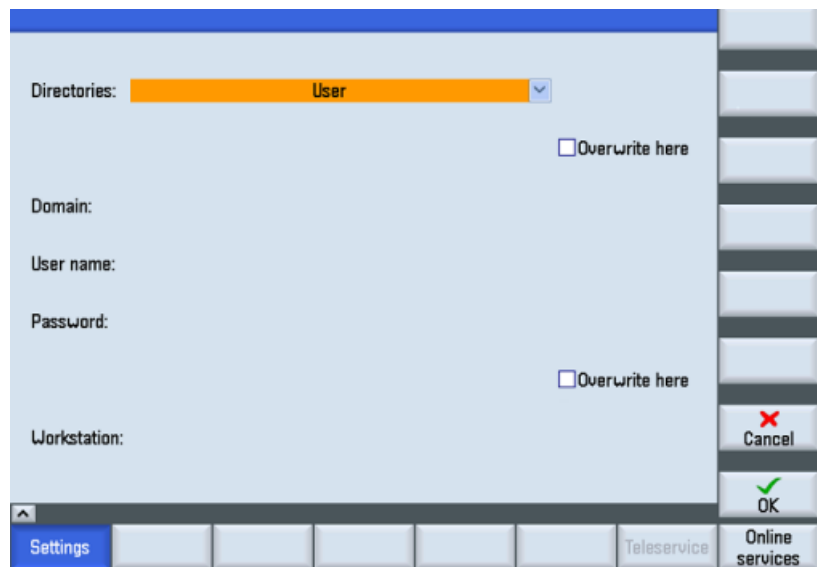


- OR -

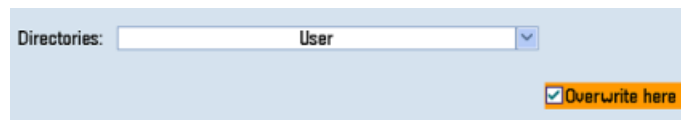


Press the "Edit" softkey to change the data.

3. Select the desired level in the "Directories" drop-down list.

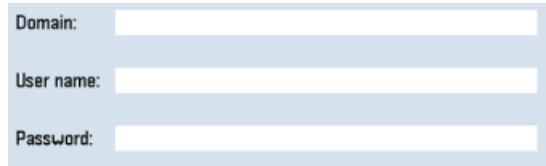


4. Activate the checkbox "Overwrite here" checkbox.



Activating overwriting

5. Now enter the data for the domain, user name, and password.



Domain:
User name:
Password:



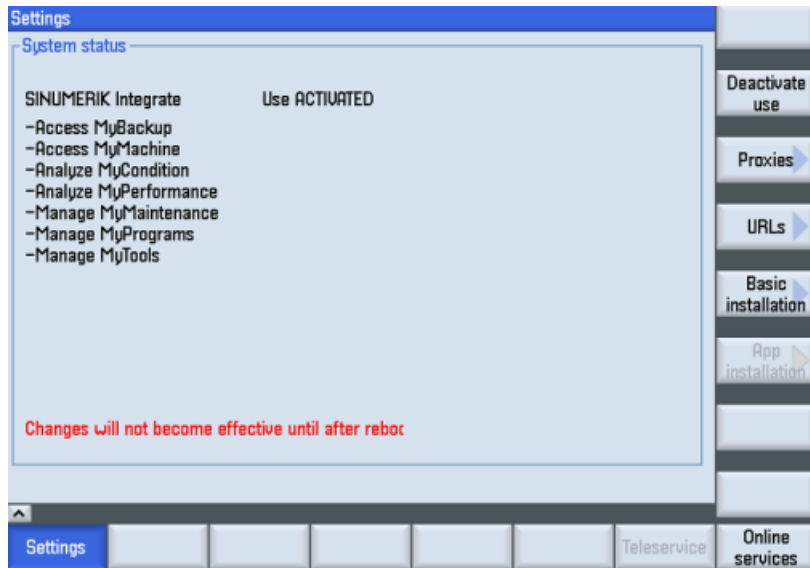
6. Press the "OK" softkey to save the settings.

- OR -



Press the "Cancel" softkey to close the window without accepting the settings.

7. Restart the control so that the access data can take effect.



3.2.7 Configuring URL settings

The client requires three URLs to communicate with the server.

- Cloud mode (ASP): If you use SINUMERIK Integrate Server in cloud mode (ASP), all URLs are preconfigured and you do not have to make any URL settings.
- Standalone (intranet): If you perform a local installation, you can individually adapt the URL settings.

Requirement

The client setup has been completed.

URL settings

Section	Meaning
Directory	The following directories are listed in a selection box: <ul style="list-style-type: none"> • Siemens (data cannot be changed) • OEM • Addon • User
Display homepage	Individual addressing of the homepage
RenderService	Individual address entry from Render Service.
Web service URL	Individual addressing of the Webservice, e. g. http://<IP / Hostname>/mcis_if/MHComm/MHComm.asmx
Send timeout in ms	Maximum permissible transmission time for sending in milliseconds Note: The entry of the timeout must be greater than 10 seconds.
Receive timeout in ms	Maximum permissible transmission time for receiving in milliseconds. Note: The entry of the timeout must be greater than 10 seconds.

You can select for each setting by activating or deactivating the checkbox whether or not to overwrite the entry.

Procedure



1. The "Settings" window is open.
Press the "URLs>" softkey.



2. Press the "Edit" softkey to change the server access data.
The new entry is accepted if you select the "Overwrite here" checkbox.
Example:

The screenshot shows a settings window with the following fields and options:

- Verzeichnis:** User (selected in a dropdown menu)
- Anzeige Homepage:** hier überschreiben
https://www.epsnetwork.com/Services/HMI/
- RenderService:** hier überschreiben
https://render.epsnetwork.com/IERenderService/HandshakeService.asmx
- Webservice URL:** hier überschreiben
https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx
- Sende Timeout in Sekunden:** 200 hier überschreiben
- Empfang Timeout in Sekunden:** 200 hier überschreiben



3. Press the "OK" softkey.
A syntax check is performed and the access data is saved.
4. To enable the access data, restart the control system.

3.2.8 Uninstalling the basis installation

3.2.8.1 App installation, uninstalling Base Setup

Procedure



1. Press the "App Installation" softkey.
The "App Installation" window is displayed with the applications that have already been installed, specifying the version numbers. (In place of "00.00.00.000", the current version is displayed on the control system.)



2. Base Setup is selected. Press the "Uninstall" softkey.

Application name	Actual version	Set version	Status	Install	Details	Uninstall
Base Setup	00.00.00.000	✓				
Installer	00.00.00.000	✓				



3. The following confirmation warning is displayed: "Do you really want to uninstall this application: Base Setup?"
Select the "OK" softkey to remove the package.
The progress is displayed by way of a progress bar.
- OR -



Select the "Cancel" softkey to cancel the uninstallation.



4. After the "Uninstallation was successful" message has been issued, restart the control system.
To this end, select the "OK" softkey.

3.2.8.2 Basis installation, uninstalling Installer

Procedure

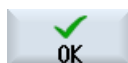
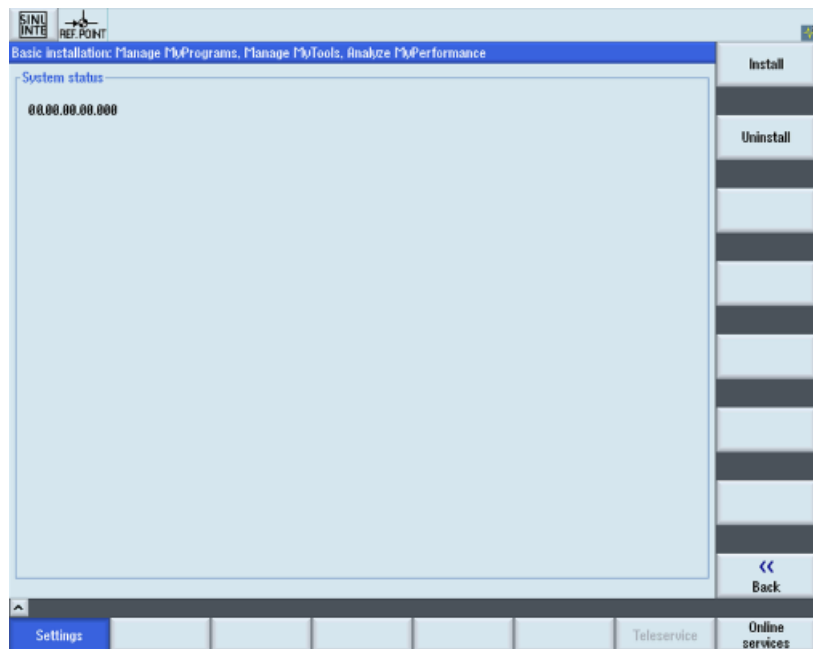


1. Select the "Basic Installation" softkey.

The installed version is displayed under "System status" (In place of "00.00.00.00.000", the version currently installed on the control system is displayed.)



2. Select the "Uninstall" softkey.



3. The following confirmation warning is displayed: "Do you really want to delete the Basic Installation?".

Select the "OK" softkey to remove the package.

The progress is displayed by way of a progress bar.

- OR -



Select the "Cancel" softkey to cancel the uninstallation.

4. Upon completion of the process, the message "No Basic Installation currently installed".
5. Restart the control system.

3.2.9 Client update of SINUMERIK Integrate

3.2.9.1 Requirement

An update from the SINUMERIK Integrate Client is only supported as of SINUMERIK Operate version 4.5.4.

If you upgrade SINUMERIK Operate from version 4.5.3 (or older) to version 4.5.4 (or later), you must delete the existing service entries from the configuration file "systemconfiguration.ini" manually.

The configuration file can be found in the following directories:

- Windows XP: F:\hmis\user\sinumerik\hmi\cfg
- Windows 7: C:\Program Files (x86)\Siemens\MotionControl\user\sinumerik\hmi\cfg
- Linux: card/user/sinumerik/hmi/cfg

Procedure

1. Open the "systemconfiguration.ini" file.
2. Delete the following lines:
 - SVC013 ...
 - SVC014 ...
 - SVC015 ...
 - SVC017 ...
3. Save and close the file.
4. Delete the following files, if applicable:
 - systemconfiguration.ini.453
 - systemconfiguration.xml

3.2.9.2 Client update under Windows

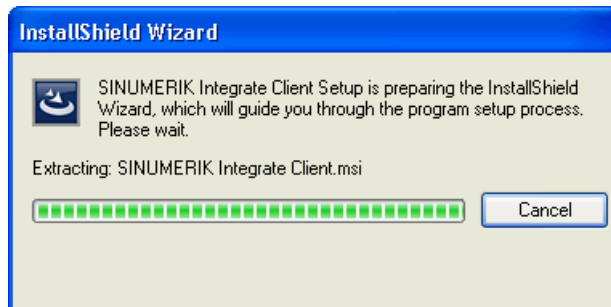
Requirement

If not installed, install the PCU Base Software from 01.04.00.00 before starting the SINUMERIK Integrate client update.

Procedure

1. Start the PCU in the Windows service mode.
2. Open the installation directory on the PCU.

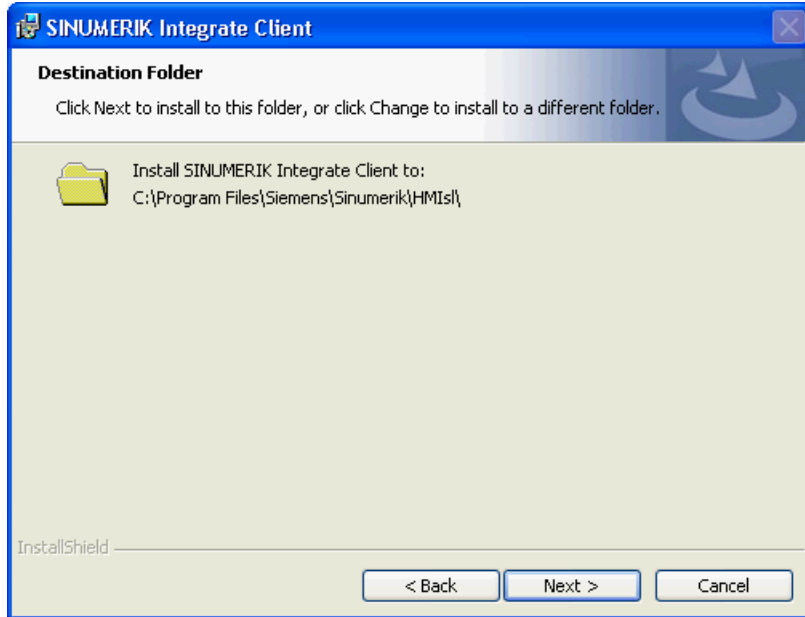
3. Start setup file "setup.exe" with a double-click.
SINUMERIK Integrate Client - InstallShield Wizard opens.



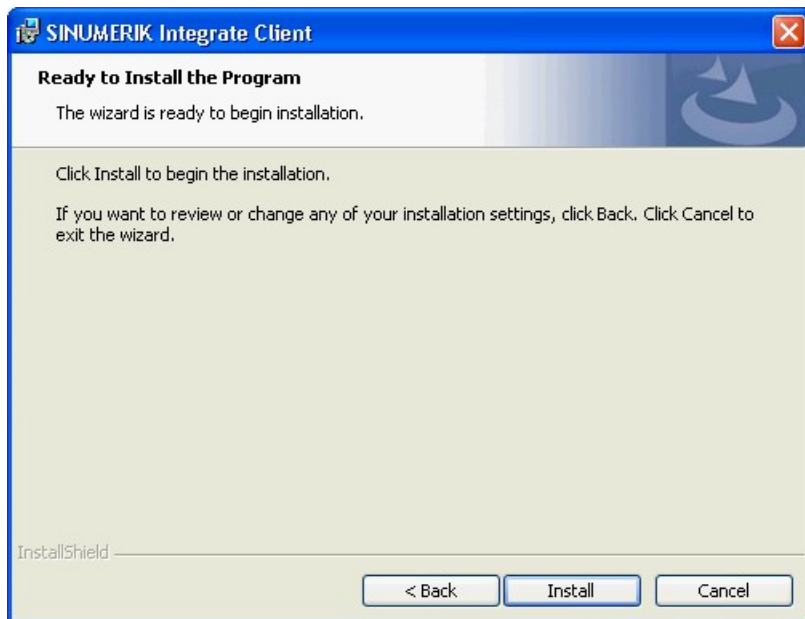
4. The welcome dialog opens and the current version number is displayed.
The installation language is English.
Click "Next >" to prepare for the installation.
5. The "License Agreement" window opens.
Read the license agreement.
 - If you want to print the terms, click "Print."
 - Then activate the "I accept the terms in the license agreement" checkbox and click "Next >".
 - OR -
 - Click "< Back" to return to the previous window.



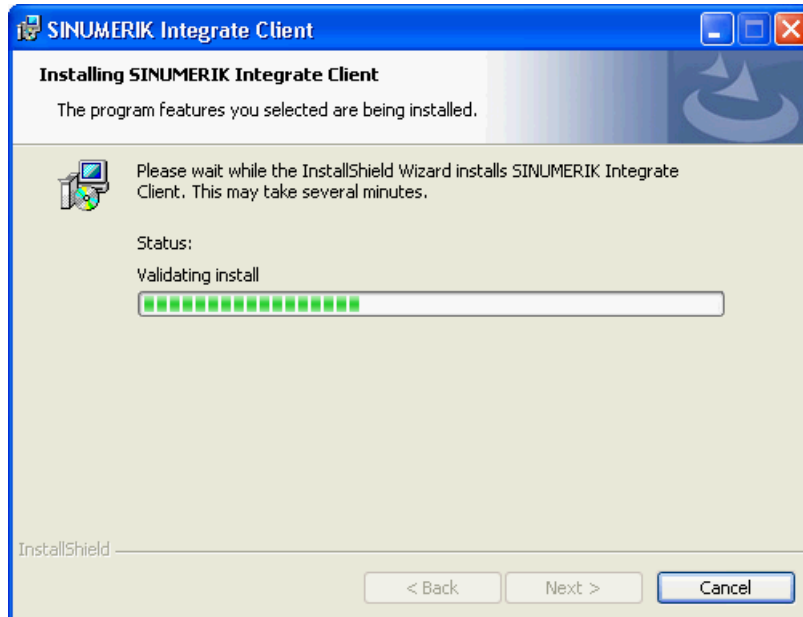
- 6. The next window displays the installation directory for the application. Click "Next >" to accept the directory suggested by the setup.



- 7. The Wizard is ready to start the installation. Click "Install" to start the installation.



8. The installation is started, and the progress is displayed with a progress bar.



9. Click "Finish" to complete the installation.



10. Finally, an overview of the applications that the client can use is shown.



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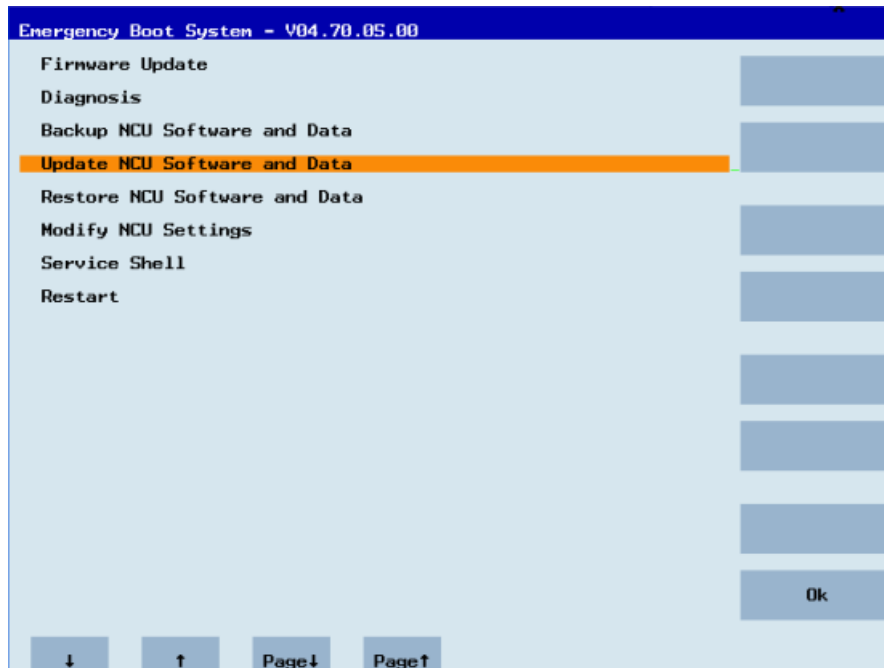
3.2.9.3 Client update under Linux

Prerequisite

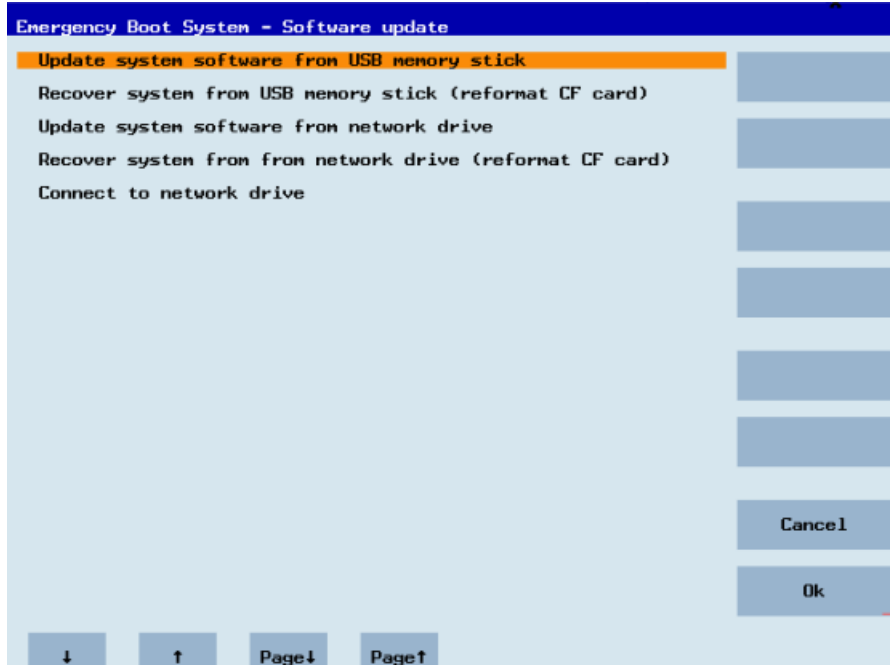
- Emergency Boot System as of Version 04.70.05.00
- SINUMERIK Operate as of Version 4.5 SP4
- OR -
- SINUMERIK Operate as of Version 4.7 SP2

Procedure

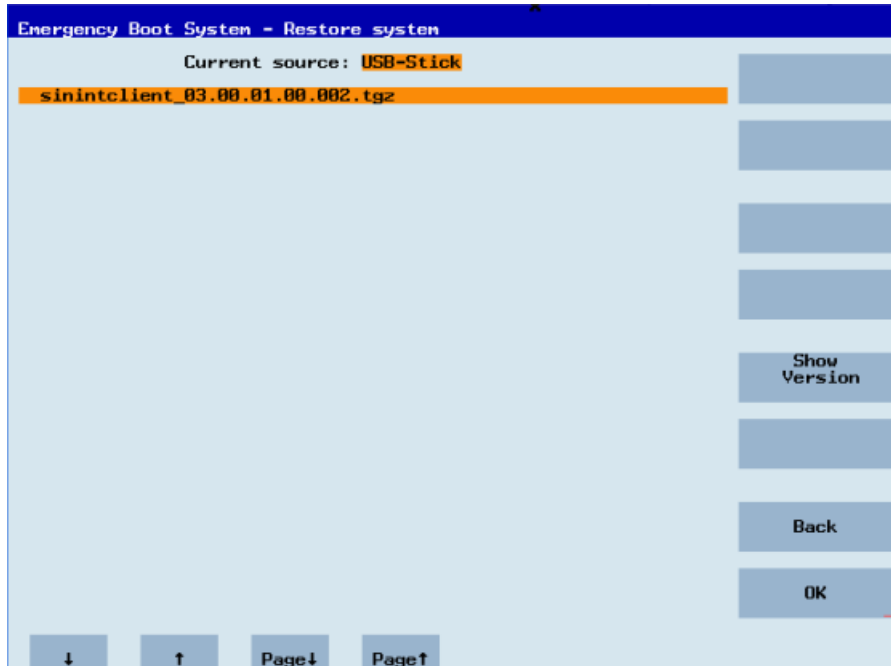
1. Copy the "sinintclient.tgz" file to the USB flash drive.
2. Insert the USB flash drive into the NCU.
3. Start the NCU.
4. In the menu, select "Update NCU Software and Data" with the cursor keys and press the "OK" softkey.



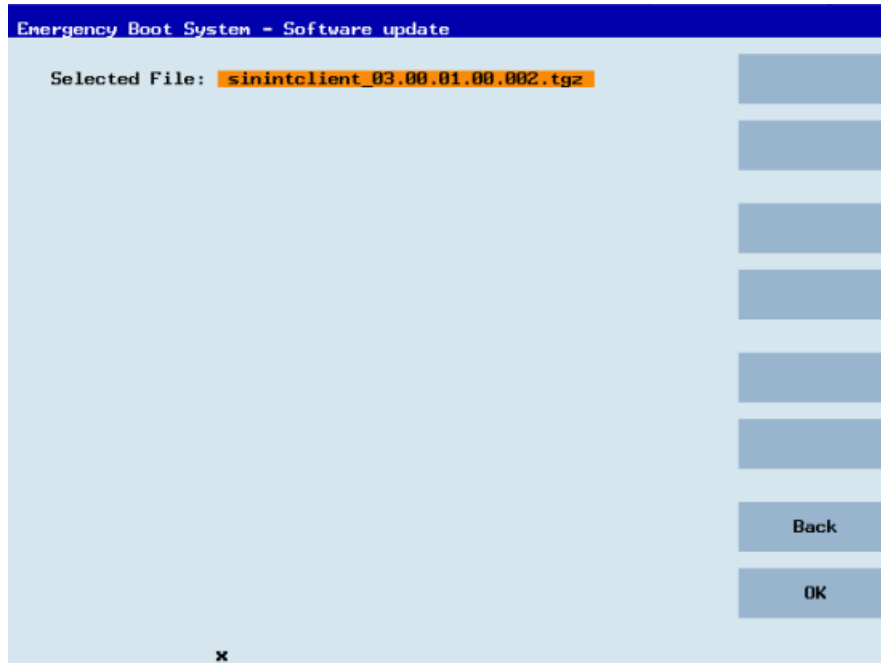
5. In the menu, select "Update system software from USB memory stick" with the cursor keys and press the "OK" softkey.



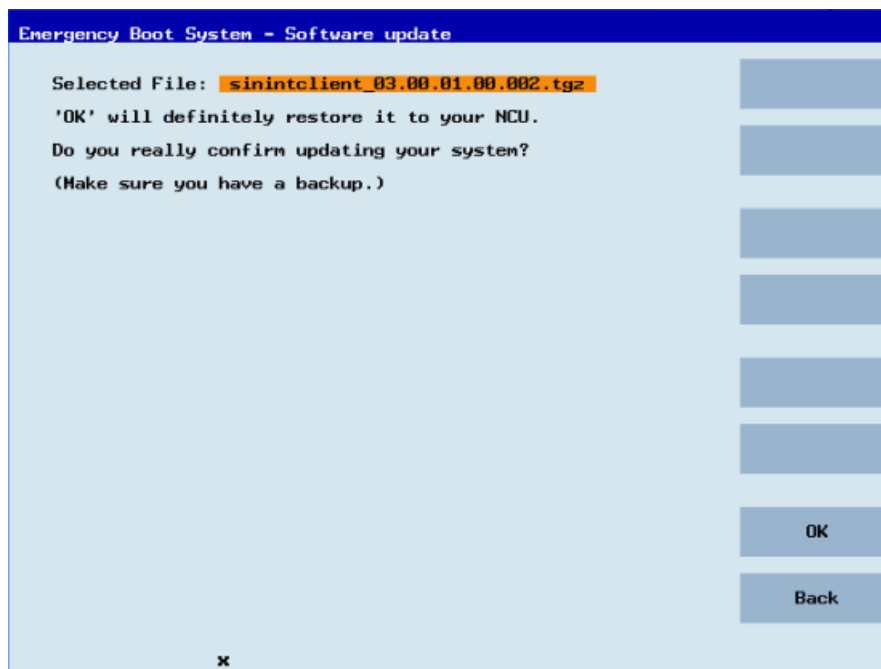
6. You receive a list with all tgz files.
Select the current file.
Press the "OK" softkey to confirm your selection.
- OR -
Press the shortcut key <Shift> + <F8> on the operator panel.



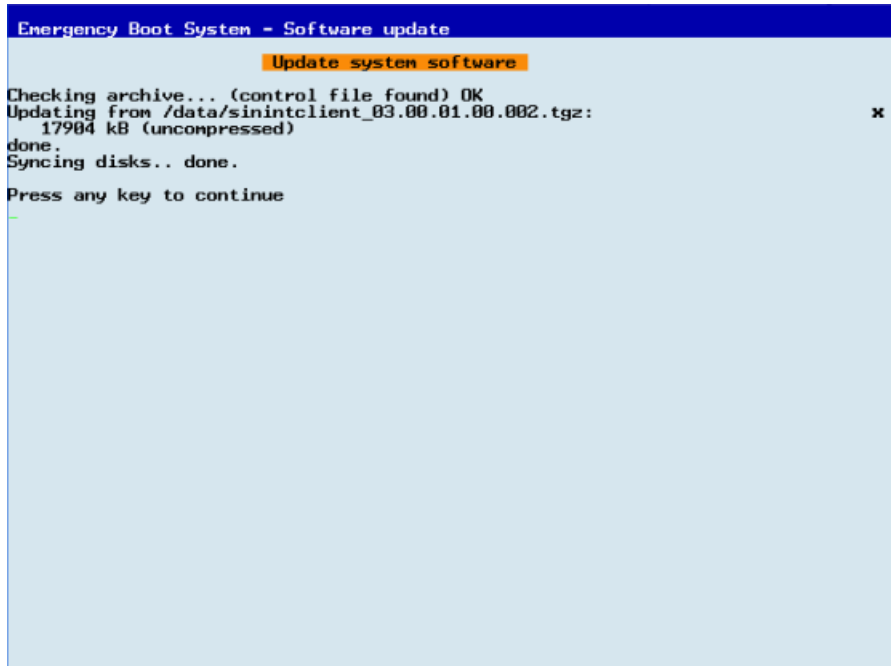
7. The selected file is displayed.
Press the "OK" softkey to confirm your selection.
- OR -
Press the shortcut key <Shift> + <F8> on the operator panel.



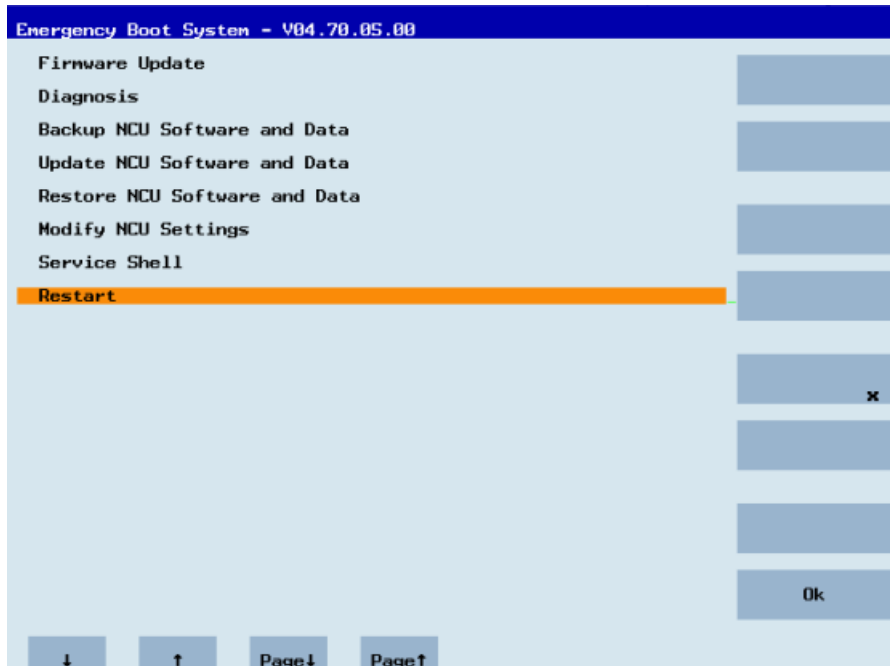
8. A confirmation prompt appears.
Press the "OK" softkey to confirm the confirmation prompt.
- OR -
Press the shortcut key <Shift> + <F7> on the operator panel.



9. The installation is started.



10. When the installation has been completed, the following message appears. Remove the USB flash drive. Select "Restart" from the menu and press the "OK" softkey.



3.3 Machine with HMI-Advanced

3.3.1 Installing SINUMERIK Integrate client

The SINUMERIK Integrate client contains the setup of the application Analyze MyCondition (AMC).

If the SINUMERIK Integrate Client has already been installed, then the system identifies the scope of the installation. Compared to a new installation, several installation steps are skipped.

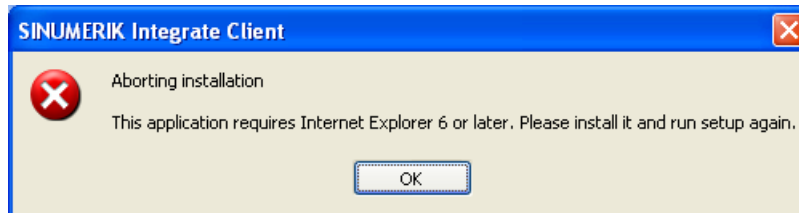
The procedure for installation for the first time is explained below.

Requirement

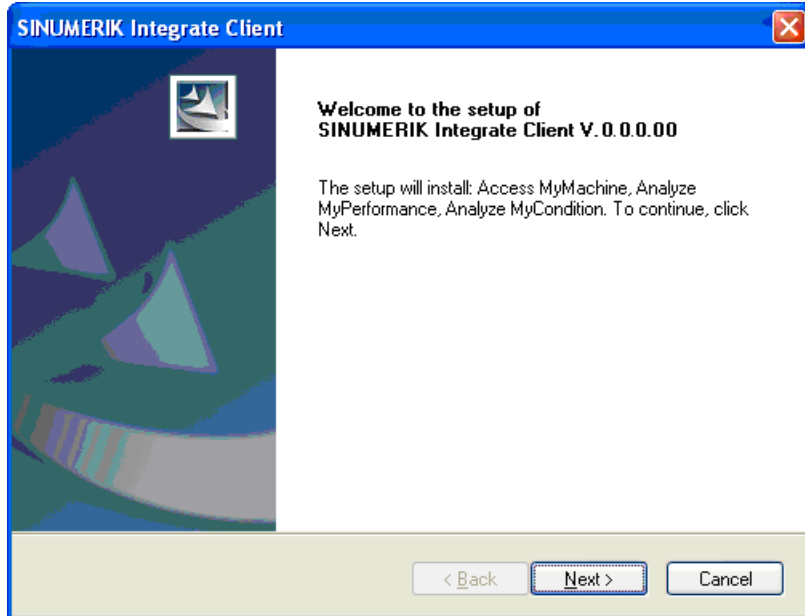
You have installed the appropriate Internet Explorer, see Section System preconditions (Page 17).

Procedure

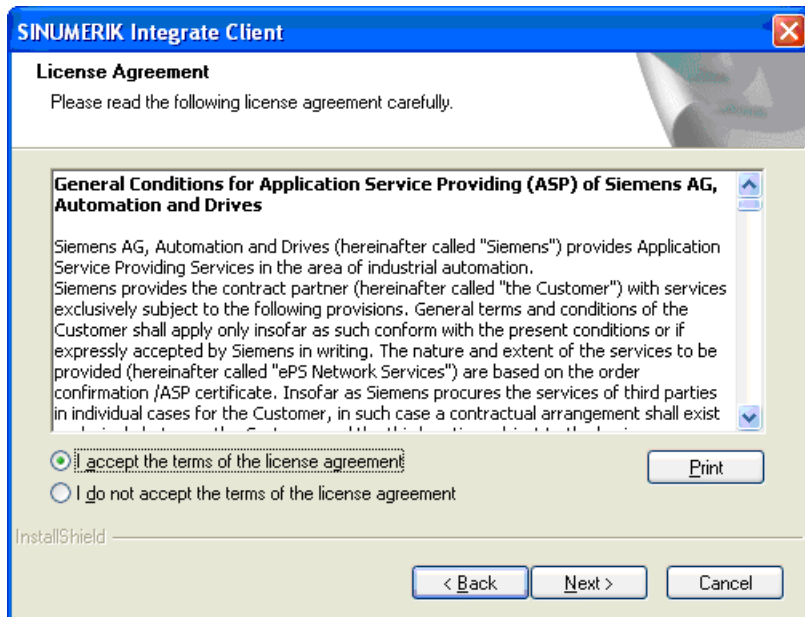
1. Start the PCU in the Windows service mode.
2. Open the installation directory on the PCU.
3. Start the "setup.exe" setup file by double-clicking.
 - If you have not installed the appropriate Internet Explorer, a corresponding message is displayed. For example, the program requires Internet Explorer 6 or higher. The installation is aborted and you must first install the appropriate Internet Explorer. Then restart the client installation.



- 4. The welcome screen opens and displays the current version number (in place of "V. 0.0.0.00", the current version number is displayed on the control system). The installation language is English. Click "Next >" to prepare for installation.

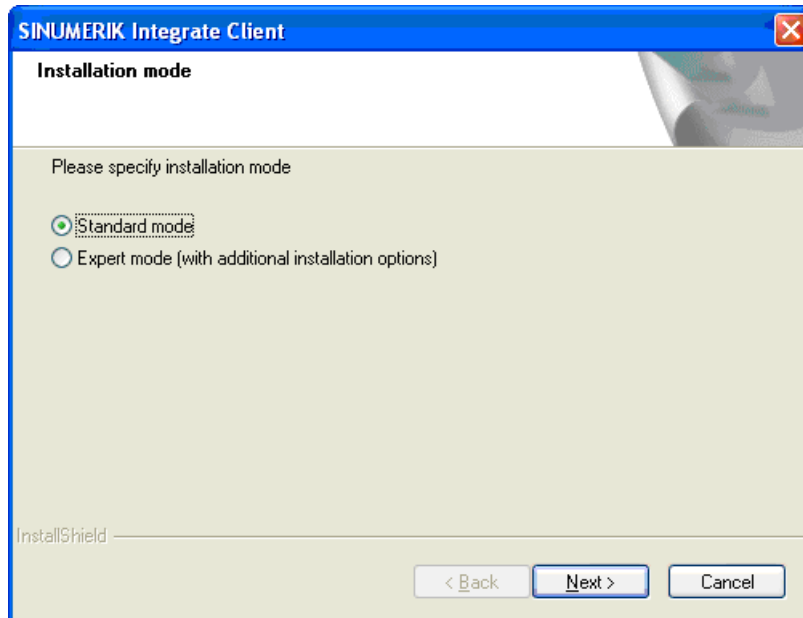


- 5. The "License Agreement" window opens. Read the license agreement.
 - Click "Print" if you want to print out the conditions.
 - Then activate the "I accept the terms of the license agreement" checkbox and click "Next >".
 - OR -
 - Click "< Back" to return to the previous window.



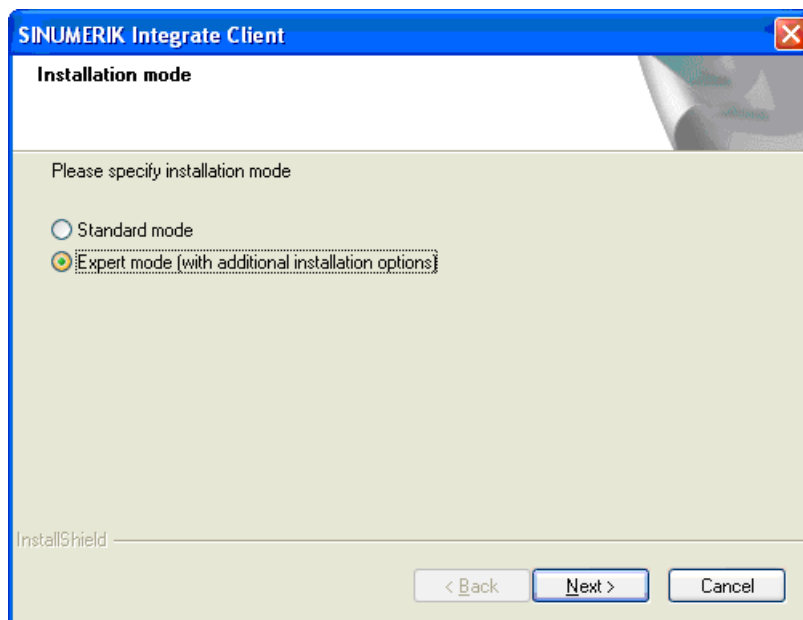
6. You then have the option of selecting between two installation types:
- Standard mode
The preconfigured settings are used.
 - Expert mode
The preconfigured settings can be changed to meet individual requirements.

Select "Standard mode" and click "Next >".

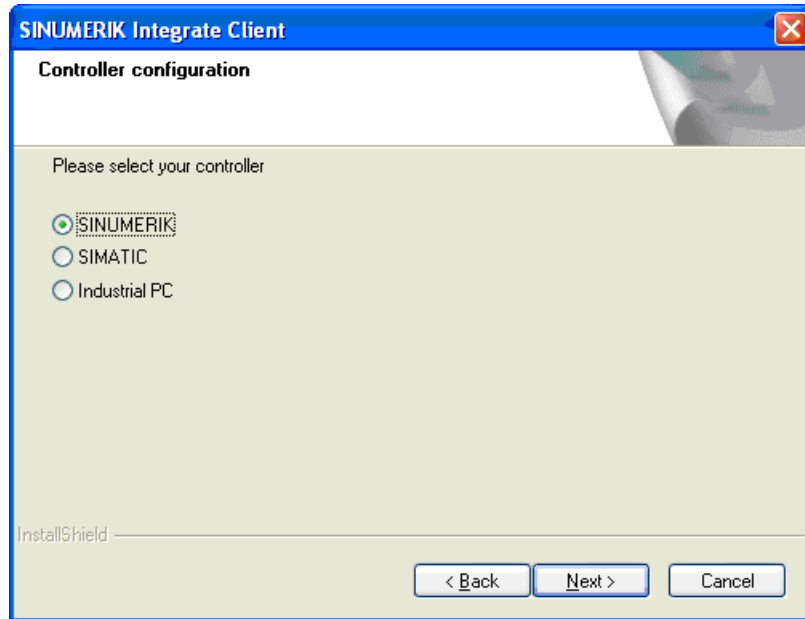


- OR -

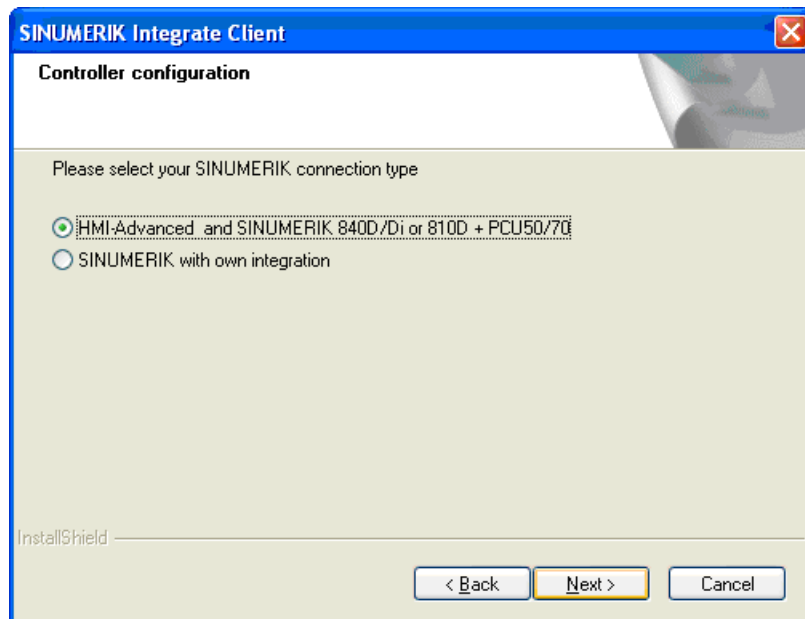
Select "Expert mode (with additional installation options)" and click "Next >".



7. The "Controller Configuration" window opens. Select "SINUMERIK" and click "Next >".



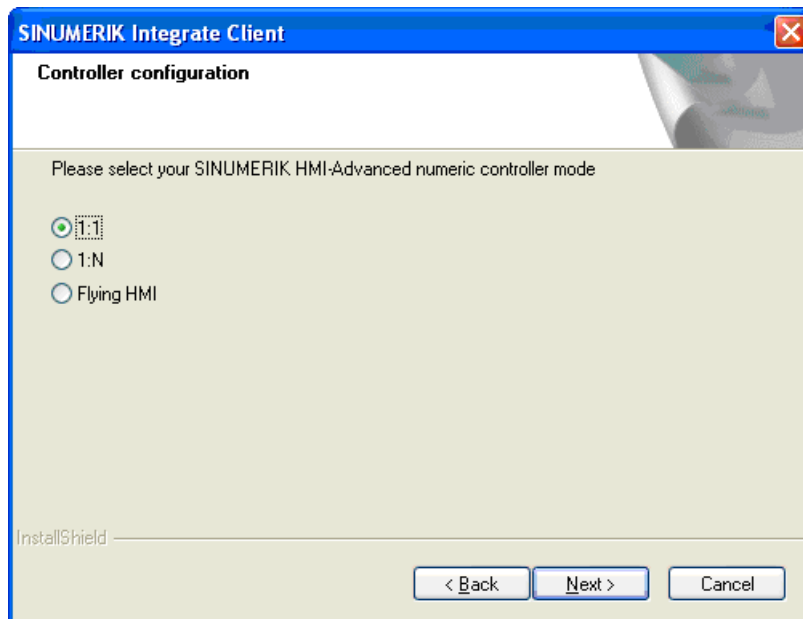
8. The SINUMERIK connection types are displayed in the "Controller Configuration" window. If you are working in a networked environment, select "HMI-Advanced and SINUMERIK 840D/Di or 810D + PCU50/70".
- OR -
If separately integrated, e.g. via HMI Pro, then select "SINUMERIK with own integration".



9. Select the connection type in the next window:

- "1:1"
The function allows a direct connection to the machine.
- "1:N"
The function allows a connection in a group with several machines.
- "Flying HMI"
The function allows the use of SINUMERIK Integrate at machines, on which a client cannot be installed, because the operating software of the machine does not support this client. In this case, SINUMERIK Integrate is installed and configured on a workplace PC or machine PC (IPC). PC/IPC and machine communicate via a (W)LAN connection.

Select connection type 1:1 and click "Next >".

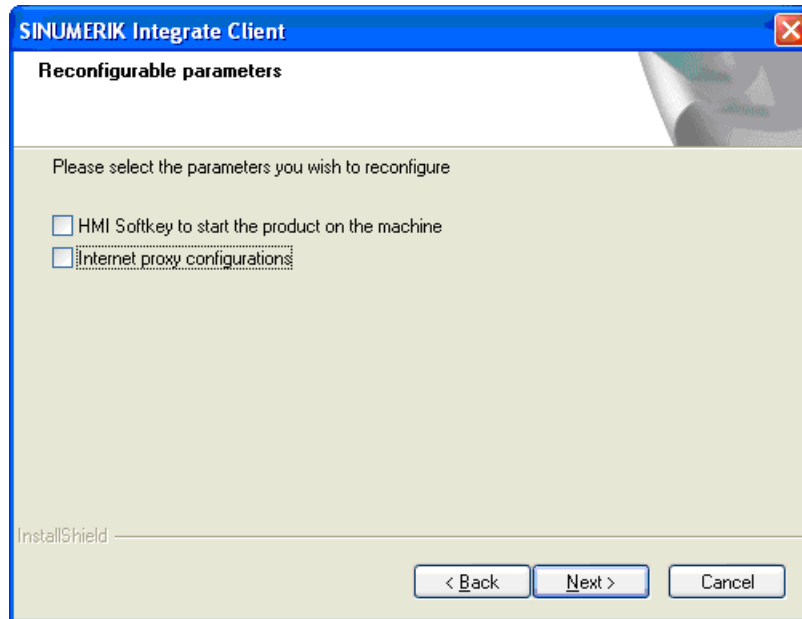


10. If you have selected the "Standard mode" installation type, then the "Reconfigurable Parameters" window opens.

You can select the following configuration:

- "HMI softkey to start the product on the machine": After selecting this function, you can define the softkey position on the user interface.
- "Internet proxy configurations": After selecting this function, you can enter the interface to the Internet.

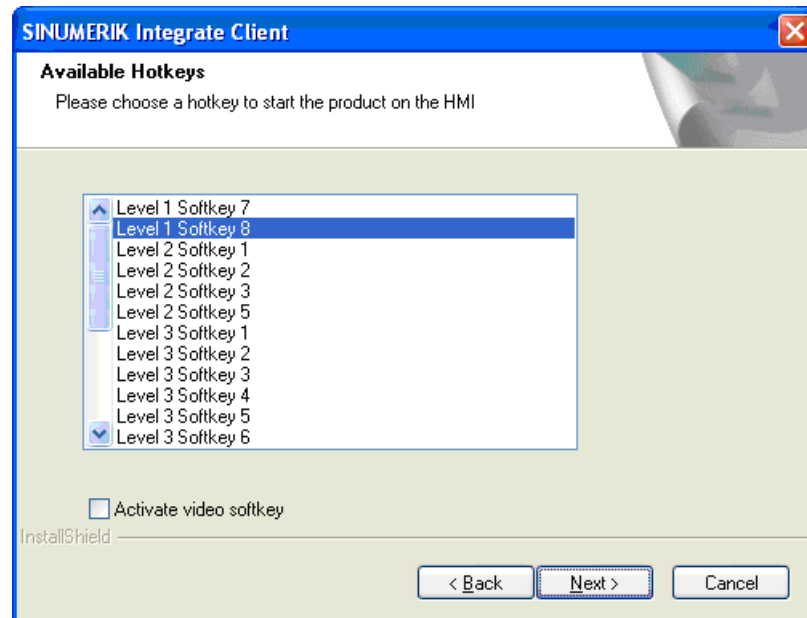
Click "Next >".



11. If you select "HMI softkey to start the product on the machine", the "Available Hotkeys" window opens.

From the drop-down list, select the position of the softkey with which you want to start the application on the user interface.

Click "Next >".

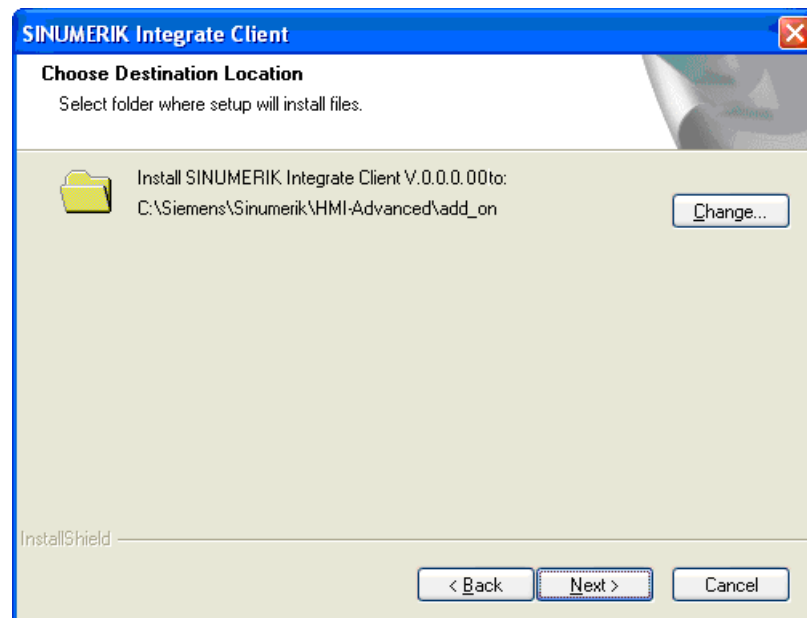


- OR -

If you selected the "Expert mode" installation type under step ⑥, then the "Choose Destination Location" window opens.

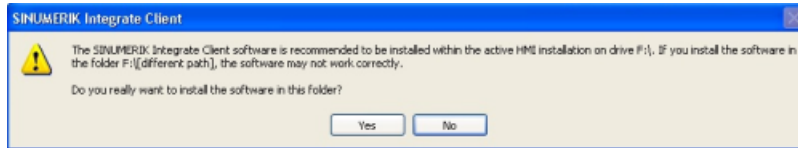
The installation directory is displayed.

If you want to use a different directory, click "Change..." and enter the required directory.

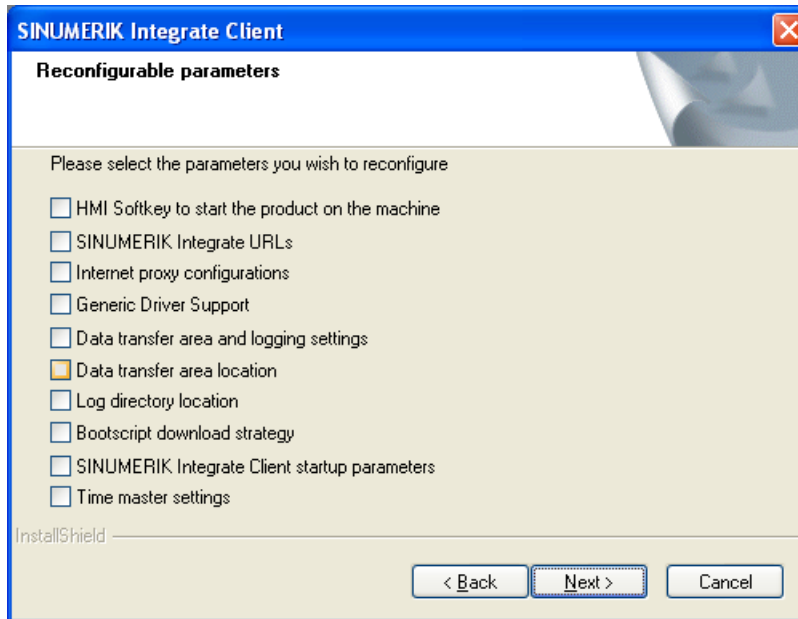


3.3 Machine with HMI-Advanced

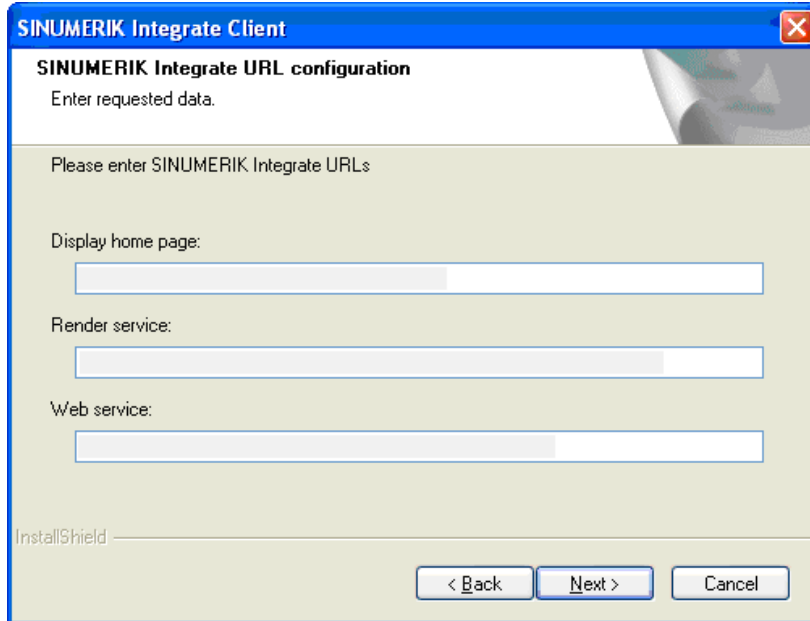
- 12. If you want to change the default directory, the following confirmation warning is displayed:
 - Click "Yes" to change the path.
 - OR -
 - Click "No" to cancel any changes.



- 13. If you selected the "Expert mode" installation type, then the "Reconfigurable Parameters" window opens.
For the individual configuration options, see Section Configuring user-specific parameters - expert mode (Page 65).



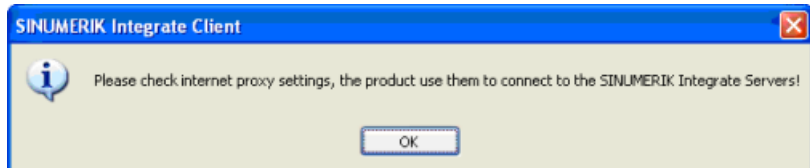
14. The "SINUMERIK Integrate URL Configuration" window opens.
Define the URLs of SINUMERIK Integrate, see Section Configuring URL settings
(Page 66)



The screenshot shows a window titled "SINUMERIK Integrate Client" with a subtitle "SINUMERIK Integrate URL configuration". The window contains the following elements:

- Text: "Enter requested data."
- Text: "Please enter SINUMERIK Integrate URLs"
- Text: "Display home page:" followed by a text input field.
- Text: "Render service:" followed by a text input field.
- Text: "Web service:" followed by a text input field.
- Text: "InstallShield" followed by a horizontal line.
- Buttons: "< Back", "Next >", and "Cancel".

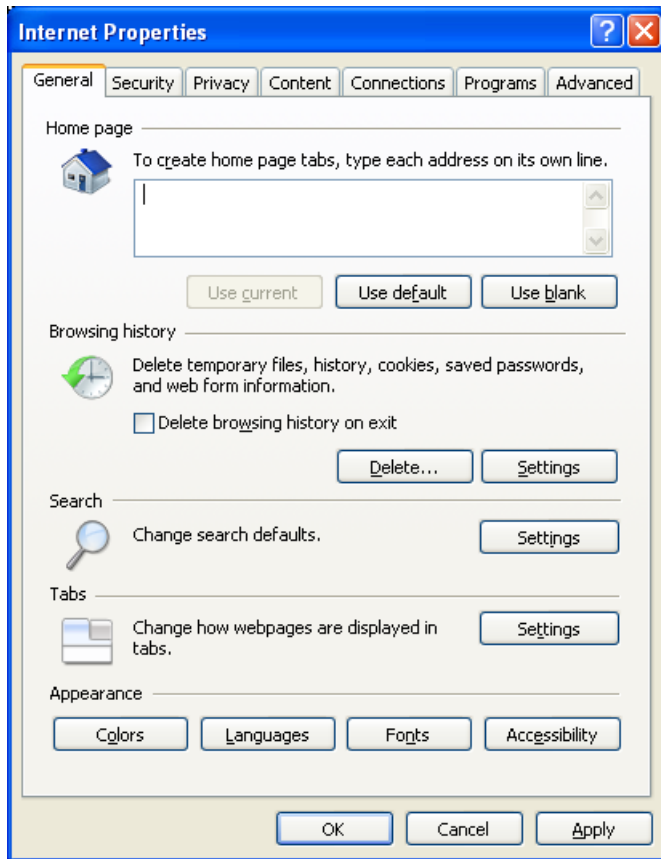
15. In the following prompt, you are requested to check the address settings.
Confirm the prompt to check the Internet settings with "OK".



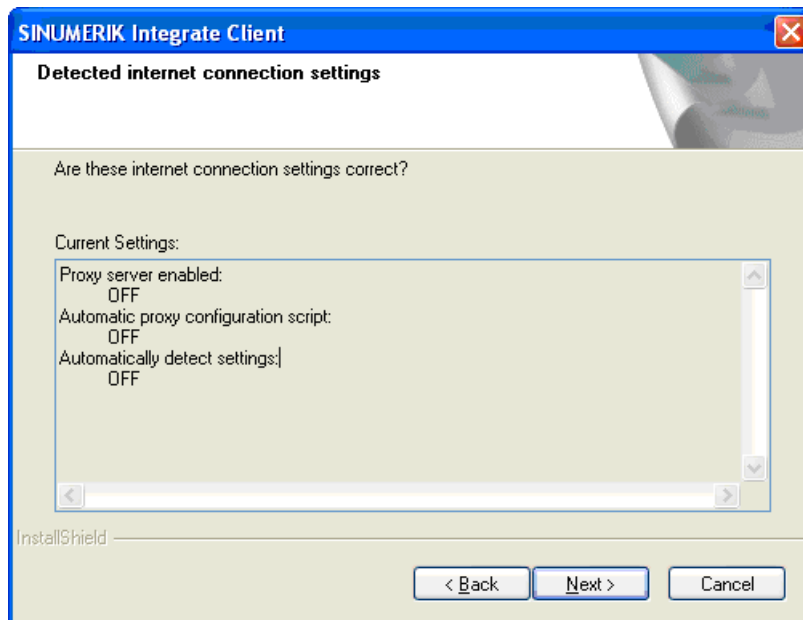
The screenshot shows a window titled "SINUMERIK Integrate Client" with a subtitle "Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!". The window contains the following elements:

- Information icon (i).
- Text: "Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!".
- Button: "OK".

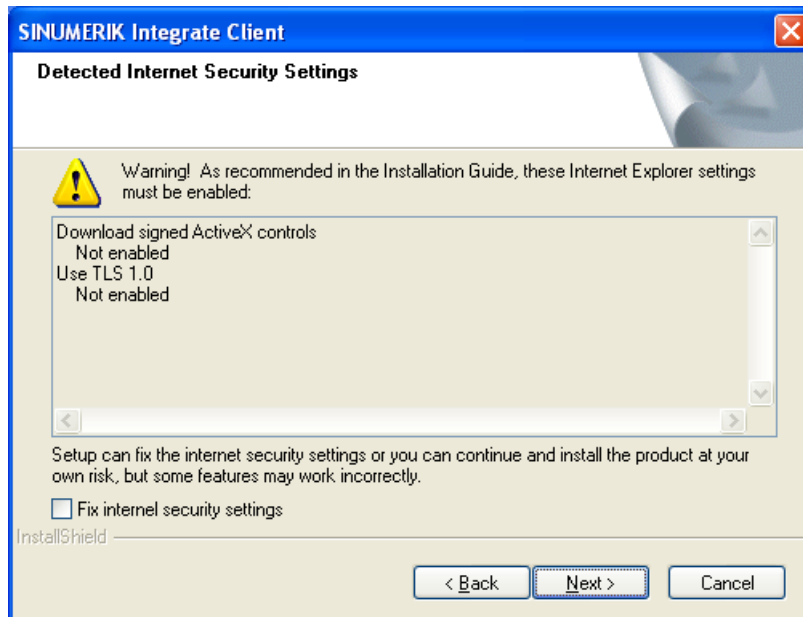
- 16. The "Internet Properties" window opens.
The address is specified under the "General" tab in order to create the start page tabs. Click the "Connections" tab to set up the Internet connection and to configure the LAN settings, see Section Configuring Internet access (Page 67). Use the connection in your company network that has already been set up. Click "OK".



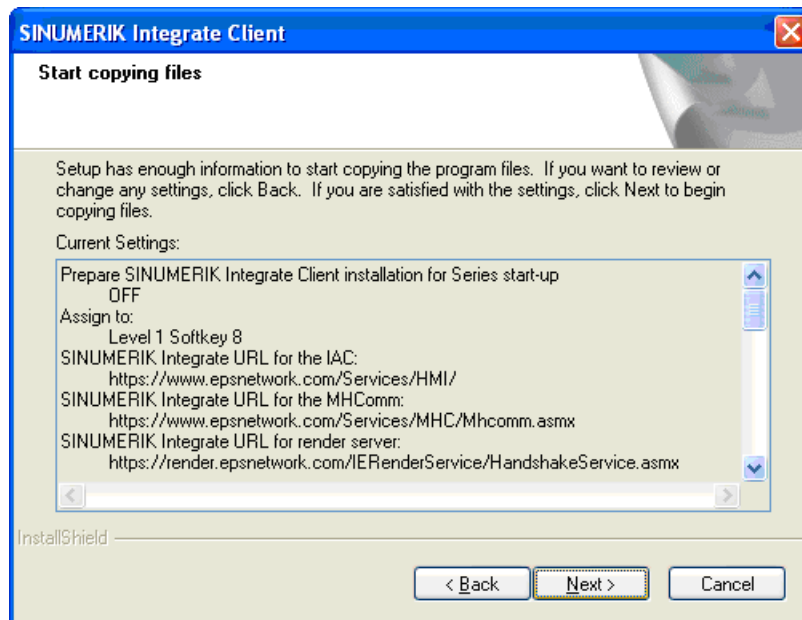
17. The "Detected Internet Connection Settings" window opens and shows the actual settings. Click "< Back" to correct the settings. Click "Next >" to continue.



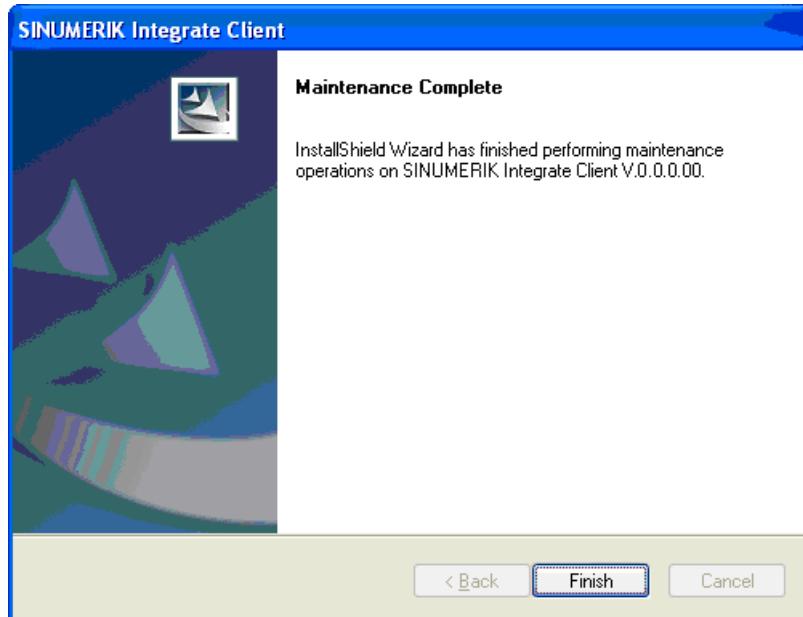
18. The settings are subject to an additional check, and an appropriate message is displayed in the "Detected Internet Security Settings" window. Click "< Back" to change the settings in the Internet Explorer. - OR - Activate the checkbox "Fix internet security settings" to permit the displayed settings. Click "Next >" to continue.



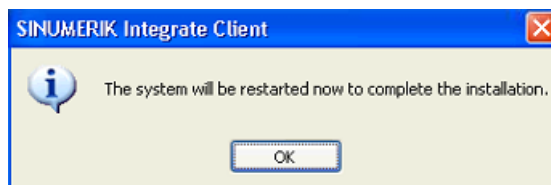
19. The "Start Copying Files" window opens and shows an overview of the settings that you have made.
Click "Next >" to start the installation.



20. The "Maintenance Complete" window opens.
Click "Finish" to complete the installation.



21. You are prompted to restart the system after the installation has been completed.
To do this, click "OK".



3.3.2 Correcting connection problems

Connection and synchronization problems between AMC and the control system with HMI-Advanced can be caused by the following reasons:

- The OPC server is not registered
- HMI-Advanced version 07.06.02.08 or later
PCU Base Version earlier than 08.06.04
- The proxy configuration is faulty
- RSA certificate is not up-to-date

Requirement

You require administrator rights to make the following settings.

Registering the OPC server

- Check whether the following registration has been entered:
"OPC.Sinumerik.Machineswitch".
If not, open the command line with administrator rights and start the following command:
`F:\mmc2\opc\dataaccess\SOPC_MachineSwitch\RegServer\`
- Then restart.

HMI-Advanced/PCU Base versions

If you work on a control system with HMI-Advanced version 07.06.02.08 or later, the OPC server will be registered incorrectly and no current entries represented on the PC server.

1. Install the latest PCU base software or at least version 08.06.04.00
2. Then open the command line with administrator rights and start the following command: `F:\mmc2\opc\dataaccess\SOPC_MachineSwitch /RegServer`

If you have a PCU Base version earlier than 08.06.04, then use DDE instead of OPC.

Set the value as follows:

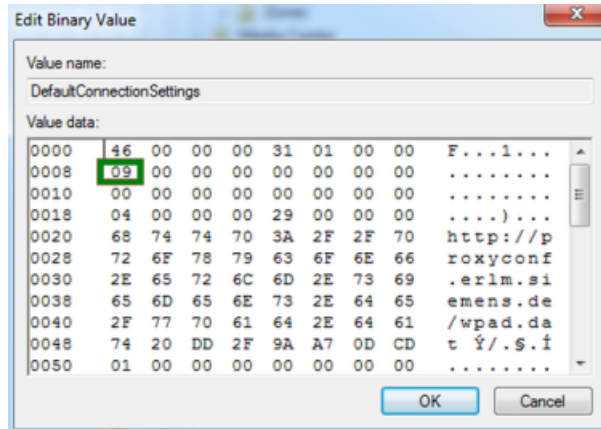
1. Navigate to the following directory: `F:\add_on\mh`.
2. Open the "settings.ini" file with a text editor.
3. Search for the entry "ACCESSTYPE".
4. Change the value to "DDE".

Changing the proxy configuration

The problem occurs mainly on operating systems that are newer than Windows XP, e.g. with Windows 7.

1. Adapt the standard configuration for Windows 7 as follows:
Open the path: `HKEY_USERS\DEFAULT\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Connections`
2. Open the "Edit Binary Value" window.

3. Change the value 09 to 03.



4. Start the service again. The connection is established.

RSA certificate not available/not up-to-date

For the SSL communication between server and machine, you require a certificate with 2048-bit length. If you use a certificate with 1024-bit length, no connection is established between server and client.

To establish a connection, install the following file: Ipins.exe

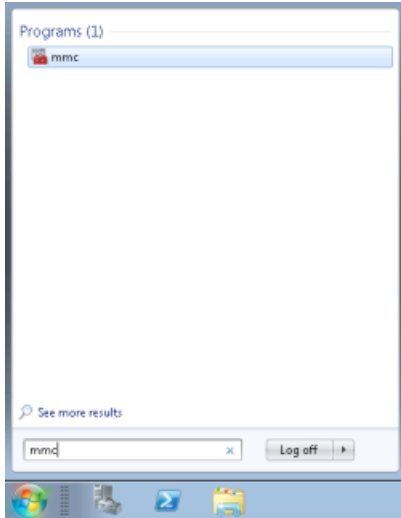
If the expiration date of VeriSign Class 3 International Server CA - G3 is 01/01/2014, the date is updated by installing the "ipins.exe".

The file is located in the following directory: Sinumerik_Integrate_Clients/SinInt/HMI_Advanced/Certificate\ipins.exe

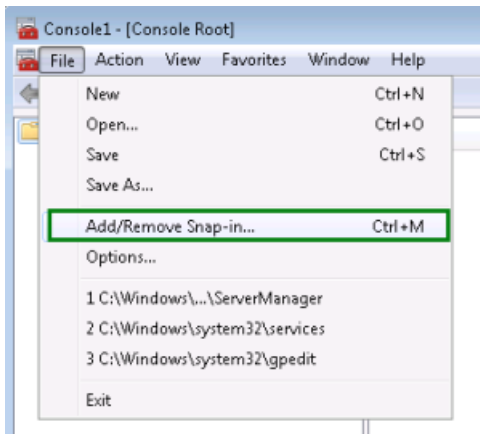
3.3.3 Importing the root certificate

How to proceed under Windows

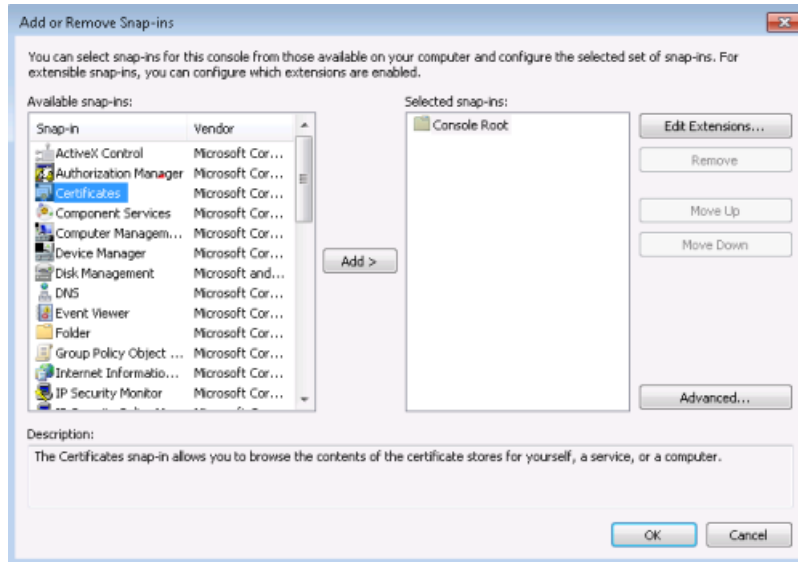
1. Open the Start menu and enter "mmc" in the input field.



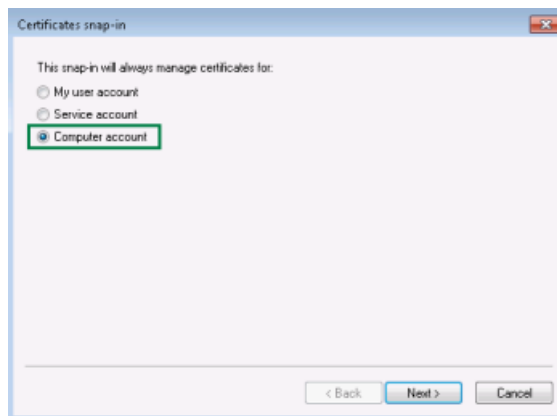
2. Select "MMC" from the program menu.
The "Console1 - [Console Root]" window opens.
 - From the "File" menu, select the function "Add/Remove Snap-in...".



3. The "Add or Remove Snap-ins" window opens.
 - From the "Available snap-ins:" list, select the "Certificates" snap-in.
 - Click the "Add >" button.

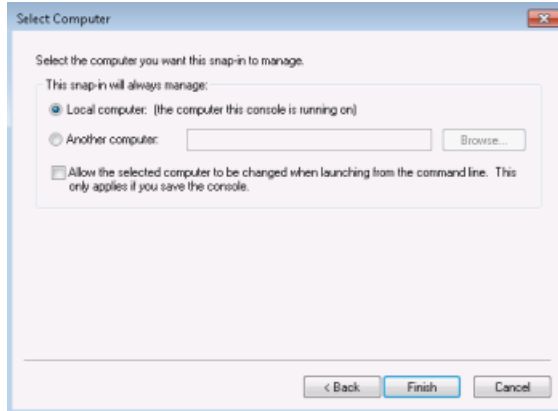


4. The "Certificates snap-in" window opens.
 - Select the "Computer account" option button.
 - Click "Next >".

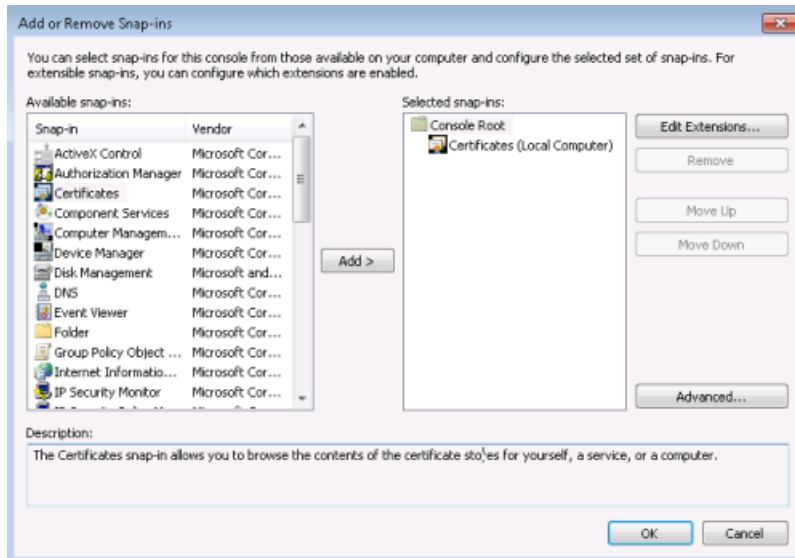


3.3 Machine with HMI-Advanced

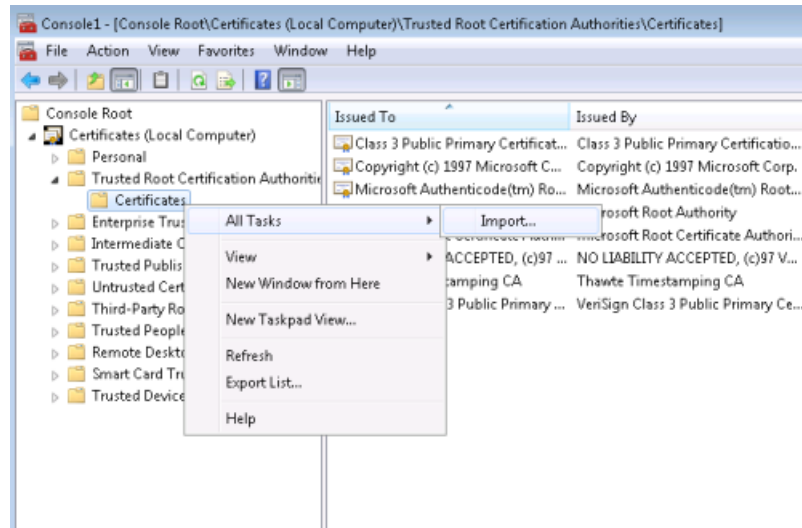
- 5. The "Select Computer" window opens.
 - Select the "Local computer: (the computer this console is Running on)" check box.
 - Click the "Finish" button.



- 6. In the "Add or Remove Snap-ins" window, you will now see the following:
 - The "Certificates (Local Computer)" snap-in is shown in the right-hand list "Selected snap-ins:".
 - Click "OK".



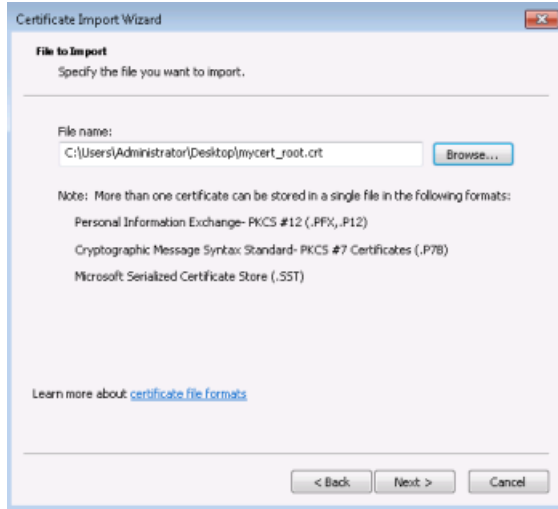
7. The "Console1 - ..." window opens.
 - Open the following directory "Console Root" > "Certificates (Local Computer)" > "Personal".
 - Select "Certificates" and right click to open the menu.
 - Select "All Tasks" and click the "Import..." function.



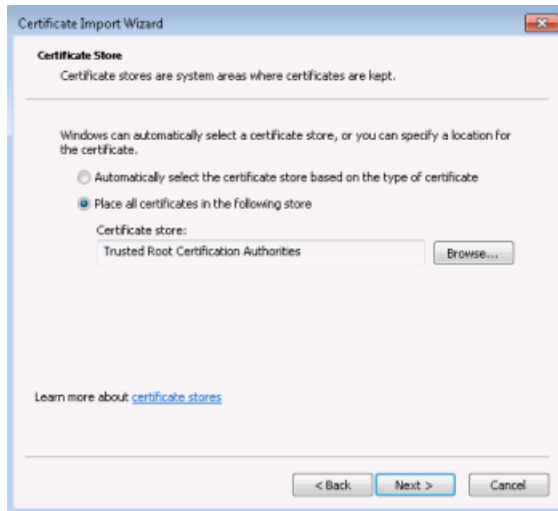
8. The "Welcome to the Certificate Export Wizard" window opens.
 - Click "Next >" to start importing.



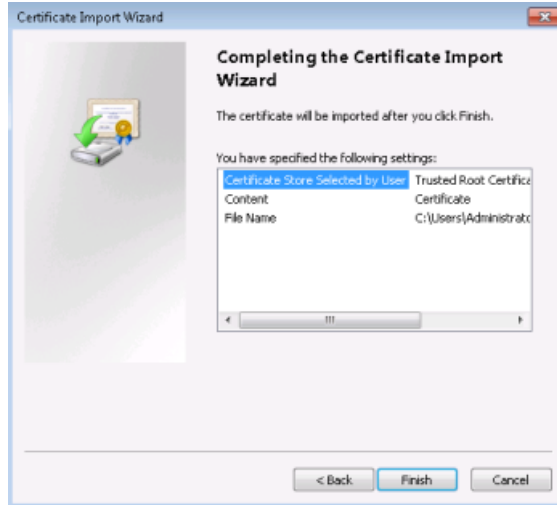
- 9. The "File to Import" window opens.
 - Click the "Browse..." button and select the directory that you want.
 - Click "Next >".



- 10. The "Certificate Store" window opens.
 - Select the "Place all certificates in the following store" option button.
 - Click the "Browse..." button and select "Trusted Root Certification Authorities".
 - Click "Next >".



11. The "Completing the Certificate Import Wizard" window opens.
 - A success message and an overview of the settings are displayed.
 - Click the "Finish" button to complete the import.



12. Perform the same steps as are described above for all servers and Windows clients.

3.3.4 Configuring user-specific parameters - expert mode

3.3.4.1 Overview of the expert mode

The overview indicates the preconfigured settings, which you can change in the expert mode.

Expert mode

Table 3-1 Overview of the expert configuration

	Function	Default setting	
1	Changing the URLs of the client	IAC:	https://www.epsnetwork.com/Services/HMI
		MHComm:	https:// www.epsnetwork.com/Services/MHC/Mhcomm.asmx
2	Configuration for the Internet access	-	
3	Size of the local data volume	Maximum size (MB):	100
		Maximum files:	5000
4	Directory path for data transfer	C:\...\HMI-Advanced\add_on\temp\MhDtsTmp	
5	Directory path, log file	C:\...\HMI-Advanced\add_on\MH\log	
6	Select download method, boot script	Offline mode ON, no repeat attempts to download the boot script from the server	
7	Startup parameters	<input checked="" type="checkbox"/>	Activate services
		<input checked="" type="checkbox"/>	Automatically start SINUMERIK Integrate Client on the machine at startup

	Function	Default setting	
8	Time synchronization between PLC and HMI	TimeAdjustInterval	3600
		TimeReadyOK	300

Note

Expert mode

If, in the "Installation mode" window, you select the "Expert mode" function, then the installation wizard guides you through all of the options one after the other, which can be set in a user-defined fashion.

You can save time if you install the client in the standard mode and then carry out all of the user-defined settings.

See also

Configuring URL settings (Page 66)

Configuring Internet access (Page 67)

Selecting a driver (Page 71)

Specifying data volumes and protocol settings (Page 73)

Specifying the target directory data buffering (Page 75)

Changing the log file target directory (Page 77)

Changing the download method for the boot script (Page 79)

Changing the start parameter client (Page 81)

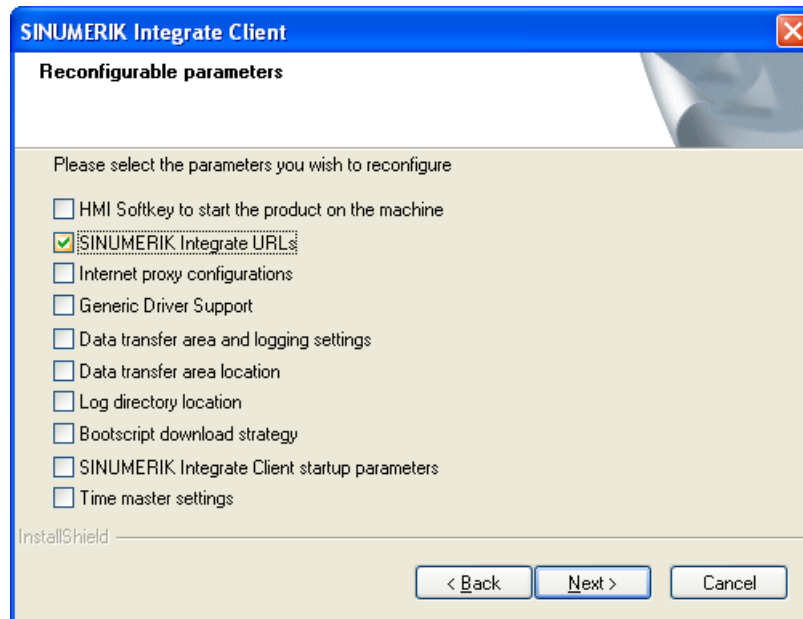
Changing the time synchronization between PLC and HMI (Page 83)

3.3.4.2 Configuring URL settings

You define the URLs of SINUMERIK Integrate using this function.

SINUMERIK Integrate URLs

1. The "Reconfigurable parameters" window opens.
Activate the "SINUMERIK Integrate URLs" checkbox and click "Next >".



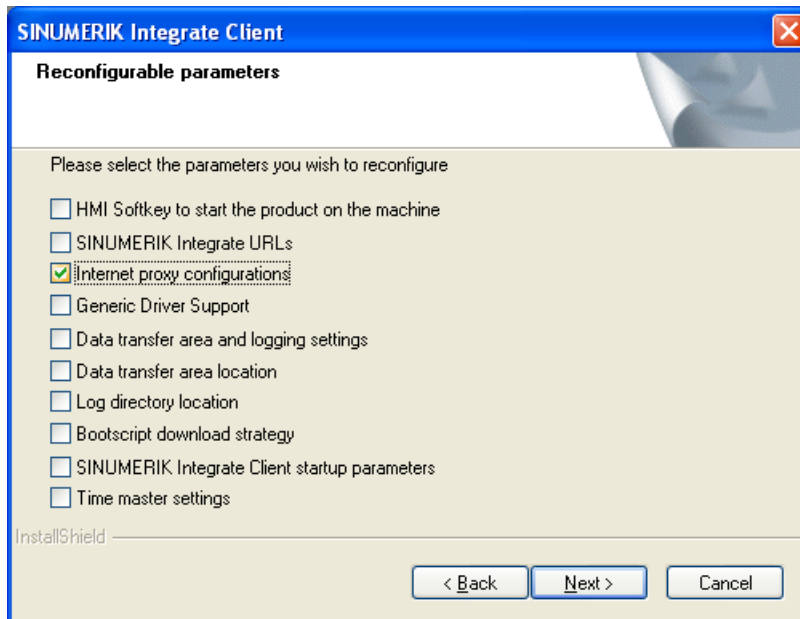
2. The "SINUMERIK Integrate URL configuration" window opens.
You define the URLs of SINUMERIK Integrate here.
For the address data, a distinction is made between a connection to the Siemens server (Cloud mode (ASP)) or a connection to a local server (standalone (intranet)) within a company network.

3.3.4.3 Configuring Internet access

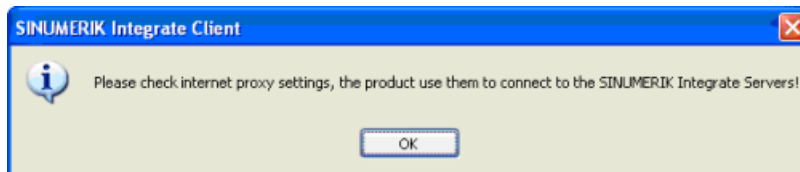
You define the download method using this function.

Internet proxy configurations

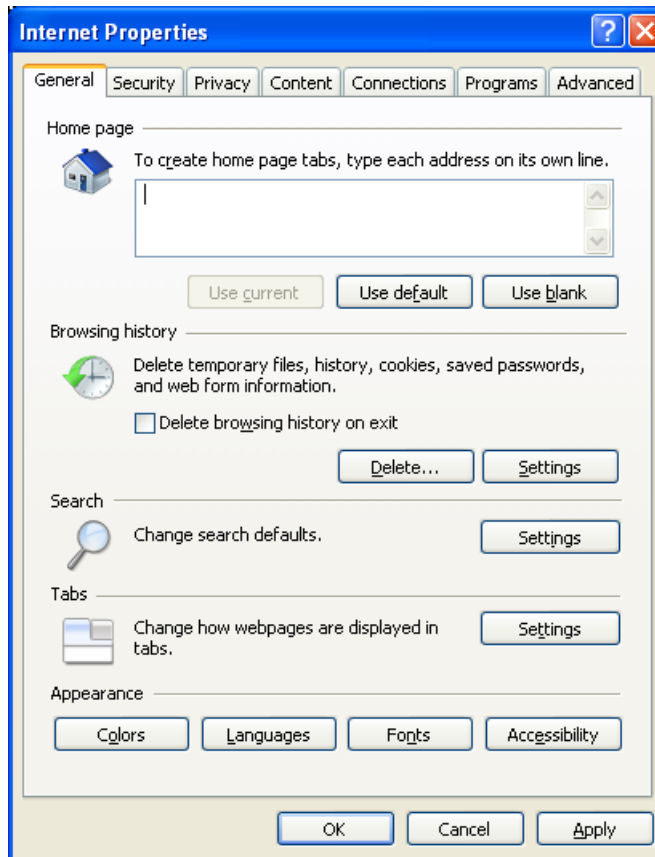
1. The "Reconfigurable Parameters" window is open.
Activate the "Internet proxy configurations" checkbox and click "Next >".



2. Confirm the note regarding checking the Internet settings with "OK".

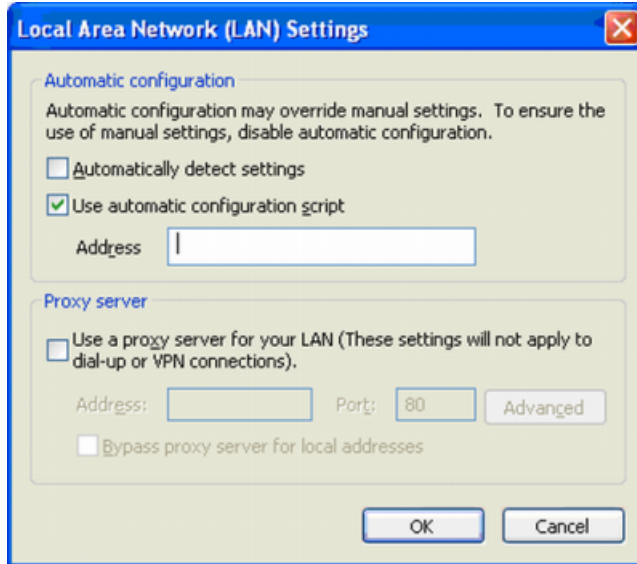


3. The "Internet Properties" window opens. Use the connection in your company network that has already been setup and confirm the settings with "OK".

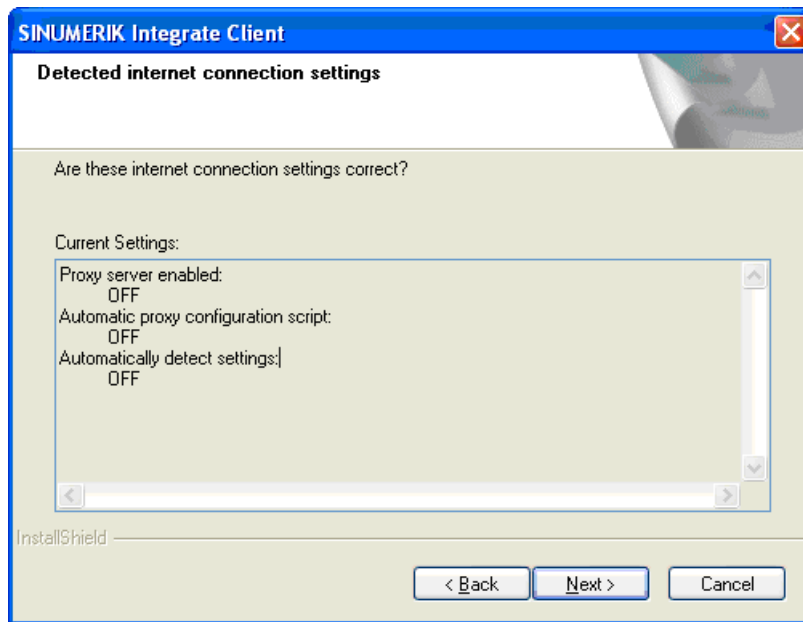


3.3 Machine with HMI-Advanced

- 4. Select the "Connections" tab.
Under LAN settings, click the button with the same name.
The "Local Area Network (LAN) Settings" window opens.
For the address data, a distinction is made between a connection to the Siemens server (Cloud mode (ASP)) or a connection to a local server (standalone (intranet)) within a company network.
Activate the "Use automatic configuration script" checkbox to use the automatic configuration script.
Use a connection in your company network that has already been set up
Confirm your selection with "OK".



- 5. A window to check your settings opens.
Click "Next >".
- OR -
Change the settings by returning to the window that was previously displayed by clicking "< Back".

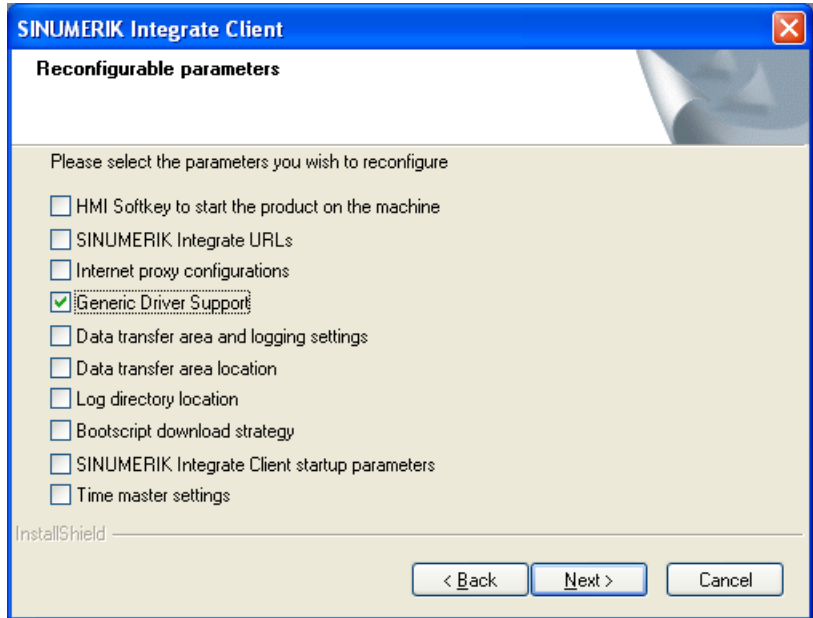


3.3.4.4 Selecting a driver

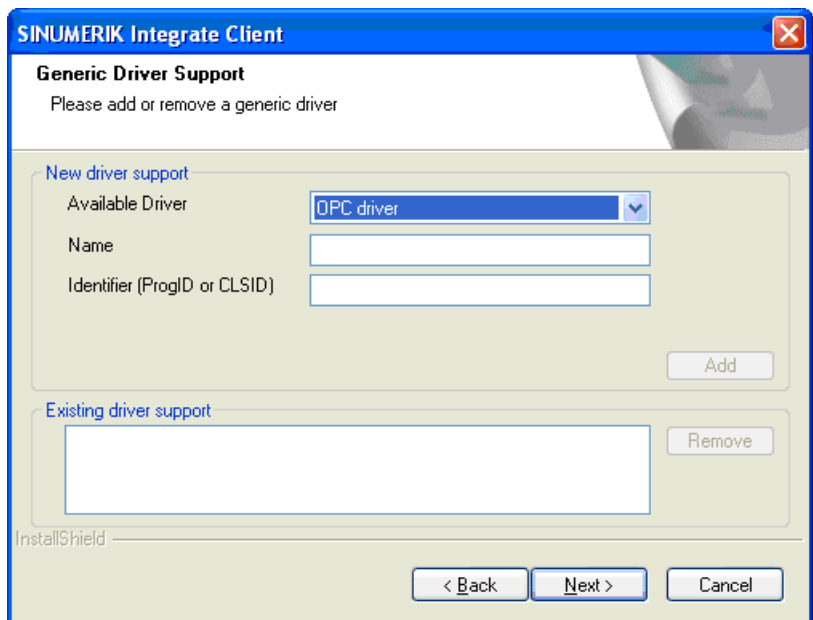
Use this function to specify the access method for data exchange.

Generic Driver Support

1. The "Reconfigurable Parameters" window is open. Activate the "Generic Driver Support" checkbox to define the server drivers. Click "Next >".



2. In the following window, under "Available Driver", you are given a selection of server drivers. Select the corresponding driver. In order to be able to address variable monitors, in the "Identifier (ProgID or CLSID)" entry field, enter the ID of the selected driver. You can define the driver ID in the driver documentation. Confirm your change and click "Next >".

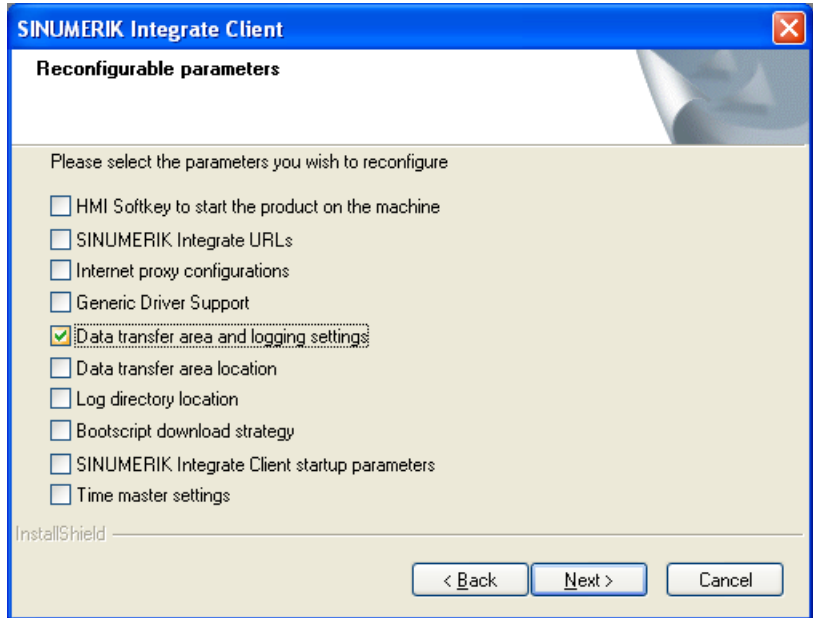


3.3.4.5 Specifying data volumes and protocol settings

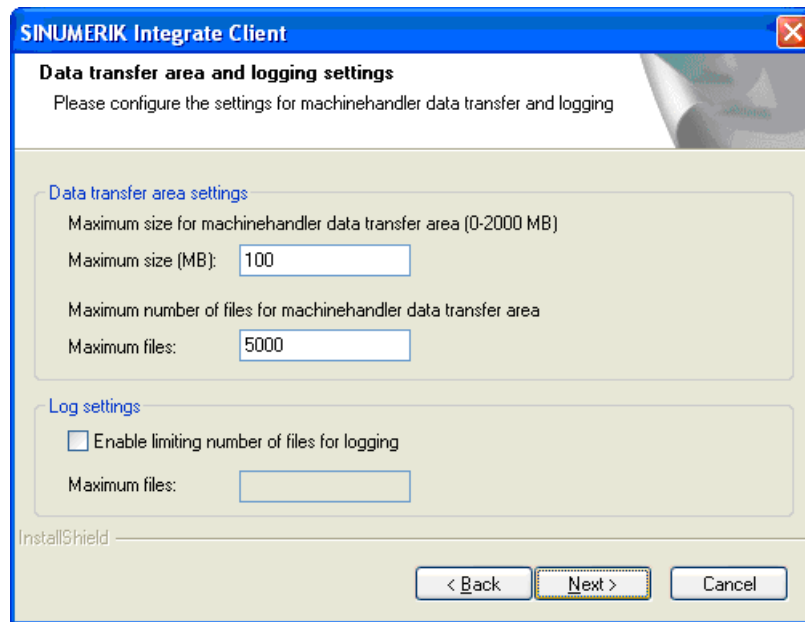
Using this function you define where data is saved if an Internet connection develops a fault.

Data volumes and protocol settings

1. The "Reconfigurable Parameters" window is open.
Activate the "Data transfer area and logging settings" checkbox and click "Next >".



2. If there is an Internet connection fault during data transfer to the server, data is locally saved in order to continue data transfer once the connection has been established again.
 - In the entry field "Maximum size (MB)", enter a value between 0 and 2000 MB.
Recommendation:
20 MB (20971520 bytes) for Windows NT
50 MB (52428800 bytes) for Windows XP
 - In the entry field "Maximum files" enter the maximum number of files that should be locally saved.
 - If you activate the "Enable limiting number of files for logging" checkbox, enter the maximum number of files that should be saved in the log file at "Maximum files".Confirm the settings and click "Next >".



Option "MAXFILECOUNT"

In addition, you have the possibility of limiting the number of files in the directory "MHDS" using the option "MAXFILECOUNT" in the "settings.ini" file:

Example

```
[APP]
; Maximum directory size [byte]
MAXDIRSIZE = 104857600
; Maximum "*.DTS" files in folder, additionally "*.TMP" with same
amount.
MAXFILECOUNT = 1000
```

Note

Number of files

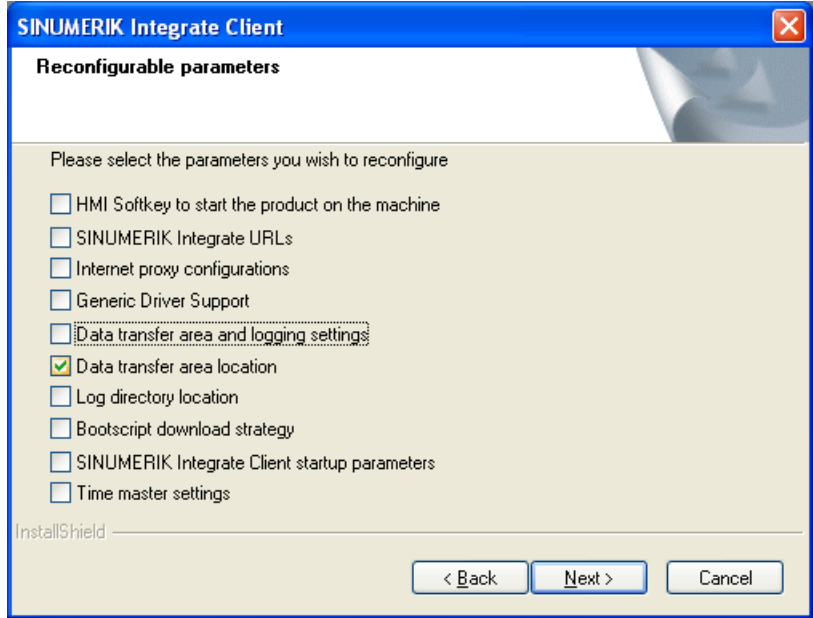
When setting the parameter, keep in mind that the total number of files will double because the system creates the same number of *.DTS and *.TMP files.

3.3.4.6 Specifying the target directory data buffering

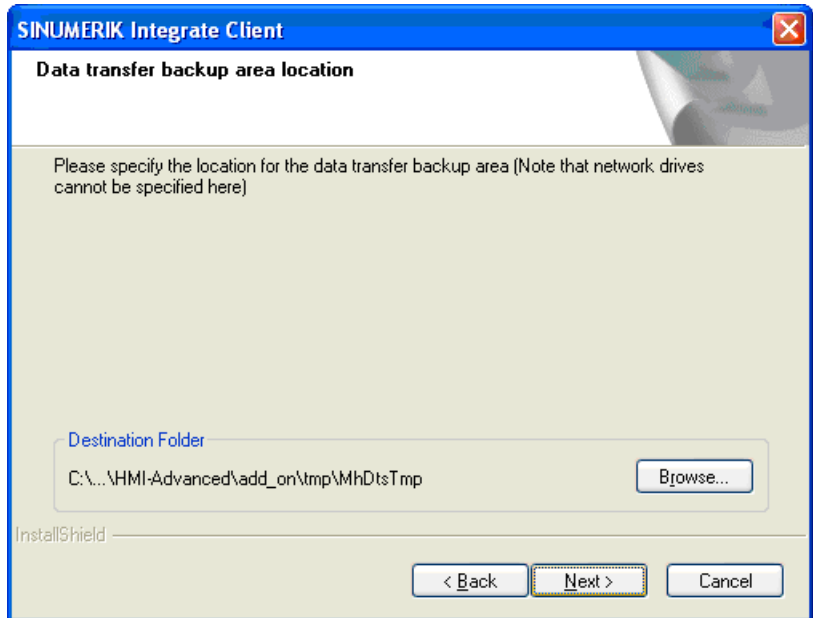
You define in which directory the data in operation is saved using this function.

Data transfer area location

1. The "Reconfigurable Parameters" window is open.
Activate the "Data transfer area location" checkbox and click "Next >".



2. In the defined directory, all the data for operation is buffered until it is uploaded to the server.
Click "Browse..." to select a new, local target directory.
Confirm the change with "Next" >.



Note

Restriction

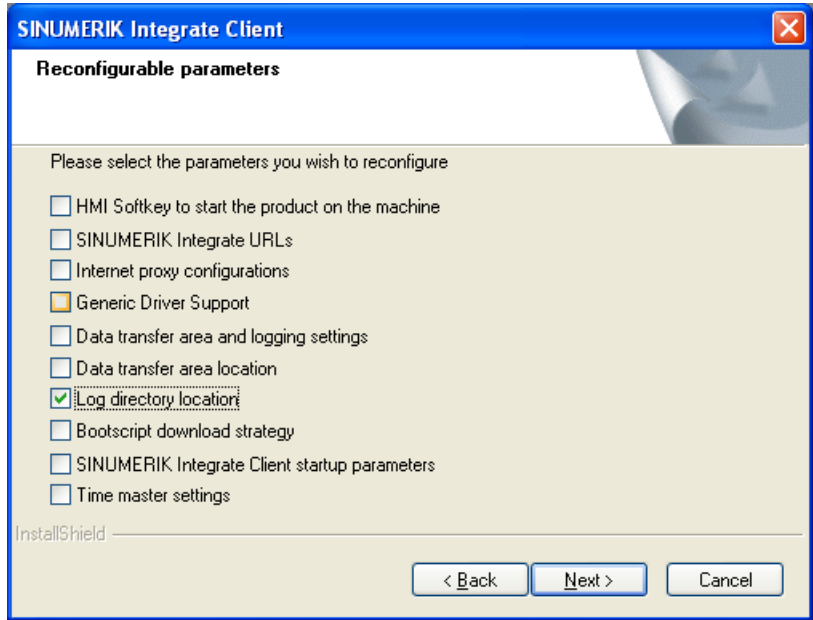
It is not possible to buffer data in target directories that are located on network drives.

3.3.4.7 Changing the log file target directory

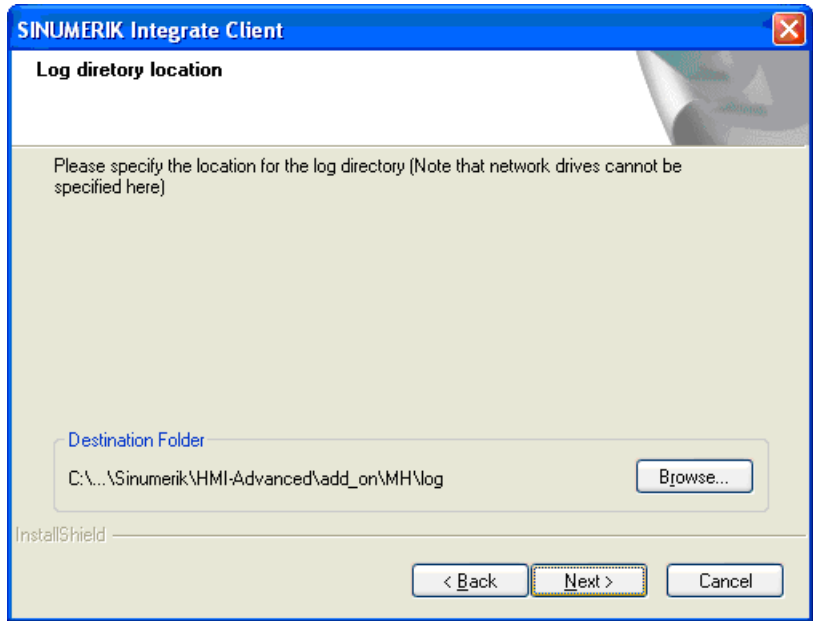
You define in which directory the log files are saved using this function.

Log directory location

1. The "Reconfigurable Parameters" window is open.
Activate the "Log directory location" checkbox and click "Next >".



2. All log files are saved in the defined directory.
Click "Browse..." to select a new, local target directory for the log files.
Confirm the change and click "Next >".



Note

Restriction

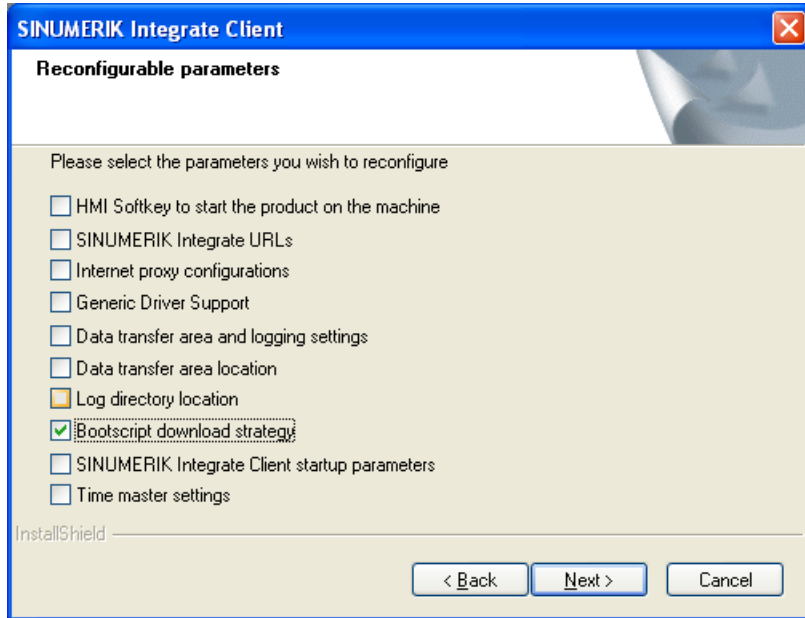
It is not possible to save log files in target directories, which are located on network drives.

3.3.4.8 Changing the download method for the boot script

You define the download method for the bootscript using this function.

Bootscript download strategy

1. The "Reconfigurable Parameters" window is open.
Activate the "Bootscript download strategy" checkbox and click "Next >".



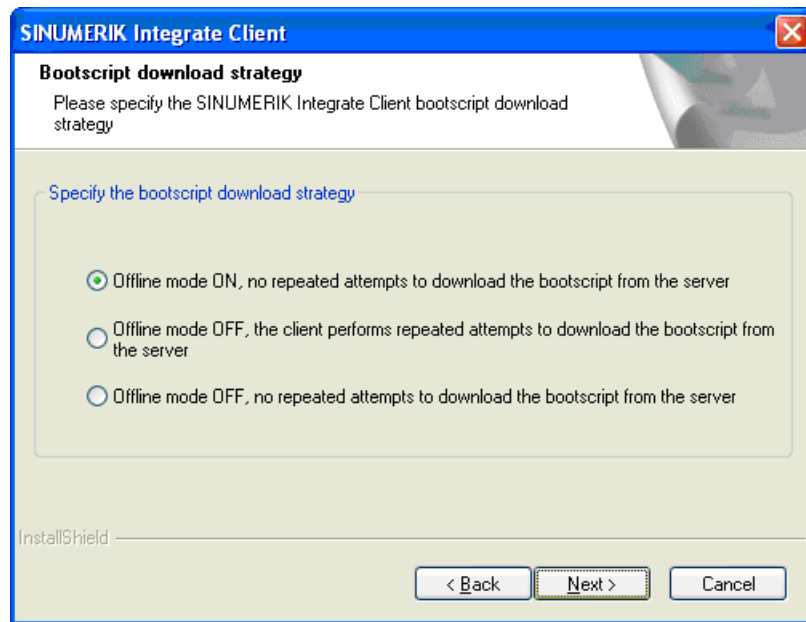
2. The following settings are available:
 - "Offline mode ON, no repeated attempts to download the bootscript from the server"
A single attempt is made to load the bootscript from the server.
If there is no Internet connection, then the locally saved bootscript is used.
 - "Offline mode OFF, the client performs repeated attempts to download the bootscript from the server"
Several attempts are made to load the bootscript from the server.
If there is no Internet connection, a local bootscript is not used.
 - "Offline mode OFF, no repeated attempts to download the bootscript from the server"
A single attempt is made to load the bootscript from the server.
If there is no Internet connection, then the locally saved bootscript is used.

Note

Offline mode OFF

If the "Offline mode OFF" option is set, alarms that occur are not buffered and are lost.

Select the preferred method to download the bootscript, by clicking the appropriate option field.
Click "Next >".

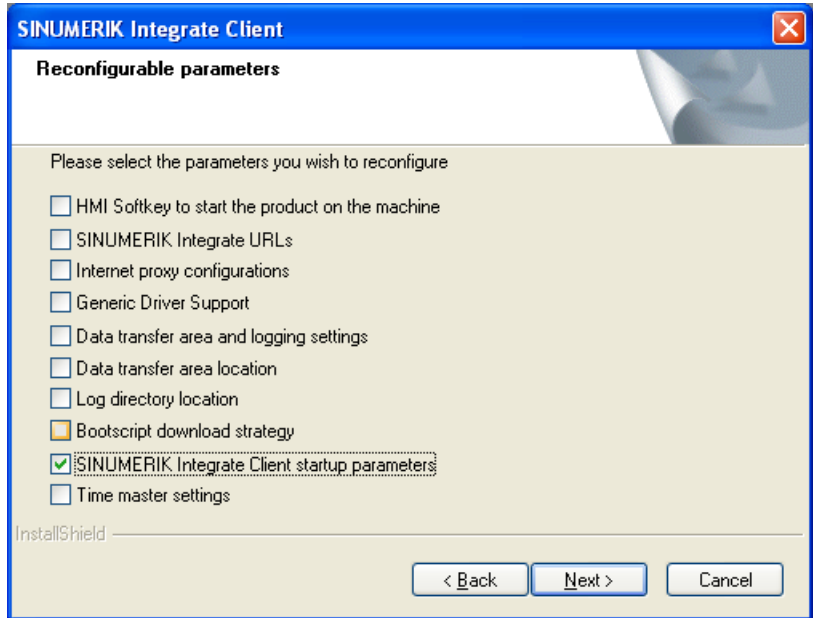


3.3.4.9 Changing the start parameter client

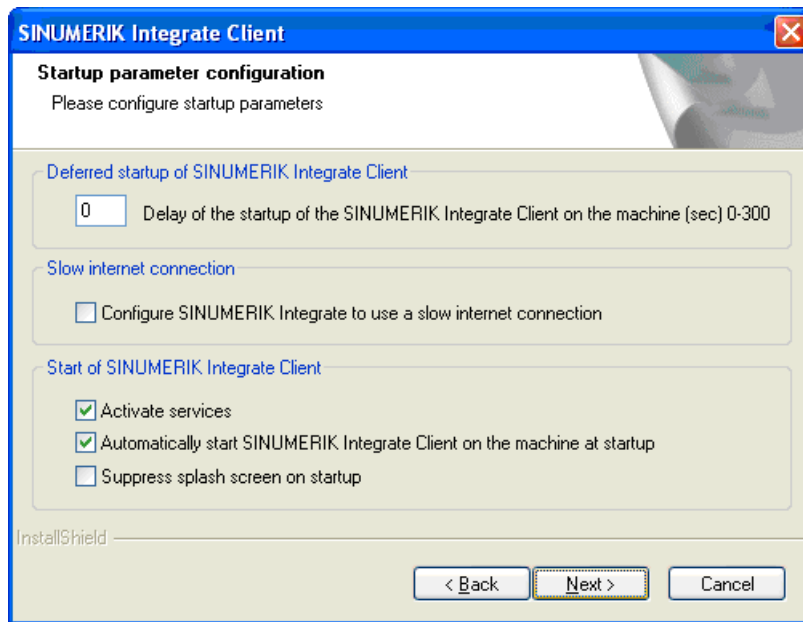
You define the start properties of SINUMERIK Integrate Client using this function.

SINUMERIK Integrate Client startup parameters

1. The "Reconfigurable Parameters" window is open.
Activate the "SINUMERIK Integrate Client startup parameter" checkbox and click "Next >".



2. The following settings are available:
 - "Deferred startup of SINUMERIK Integrate Client"
SINUMERIK Integrate Client starts delayed by the specified time (0 - 300 s).
 - "Slow internet connection"
The SINUMERIK Integrate Client delays establishing the Internet connection if there is slow access (analog modem, ISDN, modem/router).
 - "Start of SINUMERIK Integrate Client"
Activating/deactivating SINUMERIK Integrate.
Activating/deactivating the automatic start of the SINUMERIK Integrate Client when the PCU, PC or PG powers up.
Activating/deactivating the welcome screen while SINUMERIK Integrate is loaded.Select the start parameters and confirm your selection. Click "Next >".

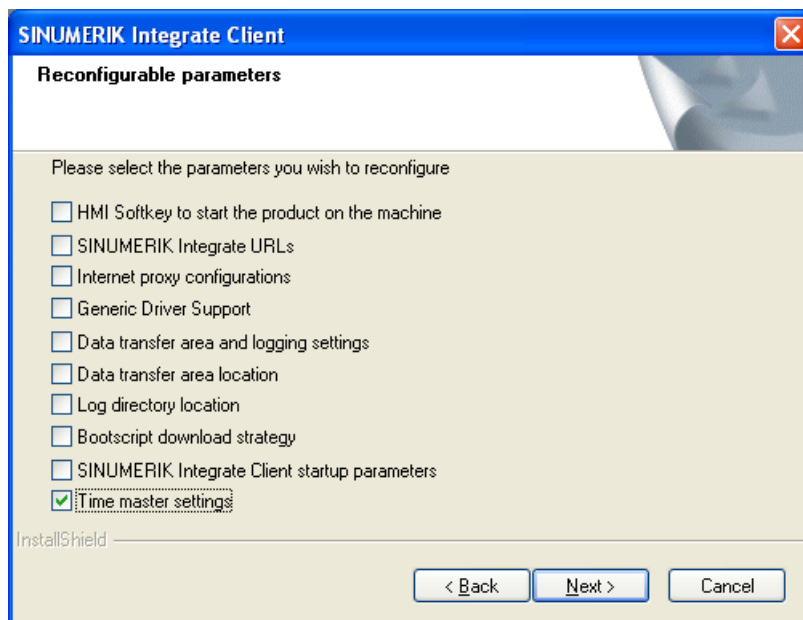


3.3.4.10 Changing the time synchronization between PLC and HMI

This function changes the time synchronization between the PLC and HMI.

Time master settings

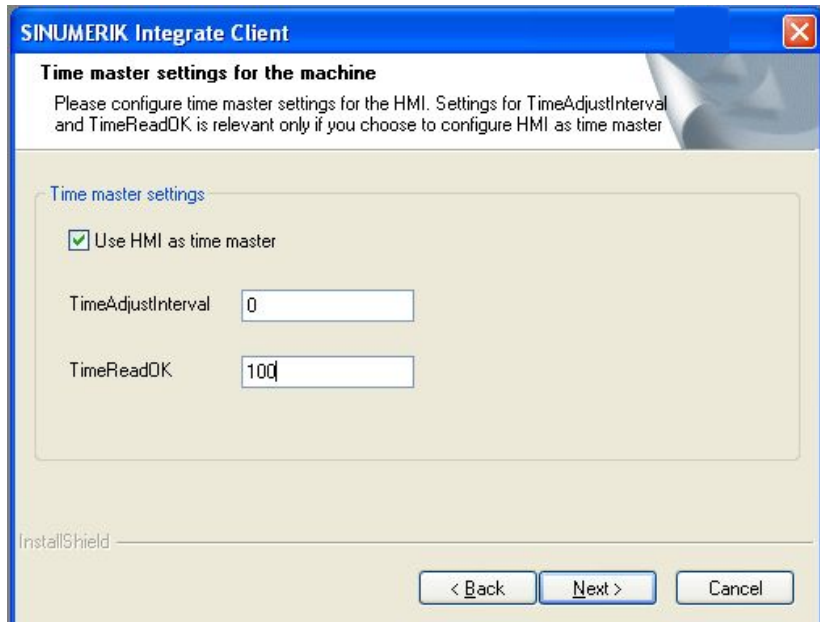
1. The "Reconfigurable parameters" window opens.
Activate the "Time master settings" checkbox and click "Next >".



3.3 Machine with HMI-Advanced

- If an alarm is output at the control system, this alarm is displayed with the PLC time. Because the HMI and PLC time can deviate from one another, the operating software provides a function to synchronize/align both of these times. This function is also used by SINUMERIK Integrate.
An error message is displayed if you enter values that are too low.
 - Activate the "Use HMI as time master" checkbox to activate time synchronization. The entry fields to set the time intervals are enabled.
 - For "TimeAdjustInterval" enter the time in seconds, which should elapse until the difference between the HMI and PLC time is saved in the operating software. An error message is displayed if you enter values that are too low.
 - For "TimeReadOK", enter the time in seconds that should elapse until the next interval for time synchronization starts.
An error message is displayed if you enter values that are too low.

Confirm the settings by clicking "Next >".



3.3.5 Integrating the client setup as external applications

Introduction

You have the option of calling the client setup from other applications, e.g. via TRANSLINE 2000 HMI PRO CS.

The call is configured via the TRANSLINE user interface.

Setup client with HMI-Advanced

Within the external application, a softkey must be configured, which starts the "iac.exe" file.

Setup client without HMI-Advanced

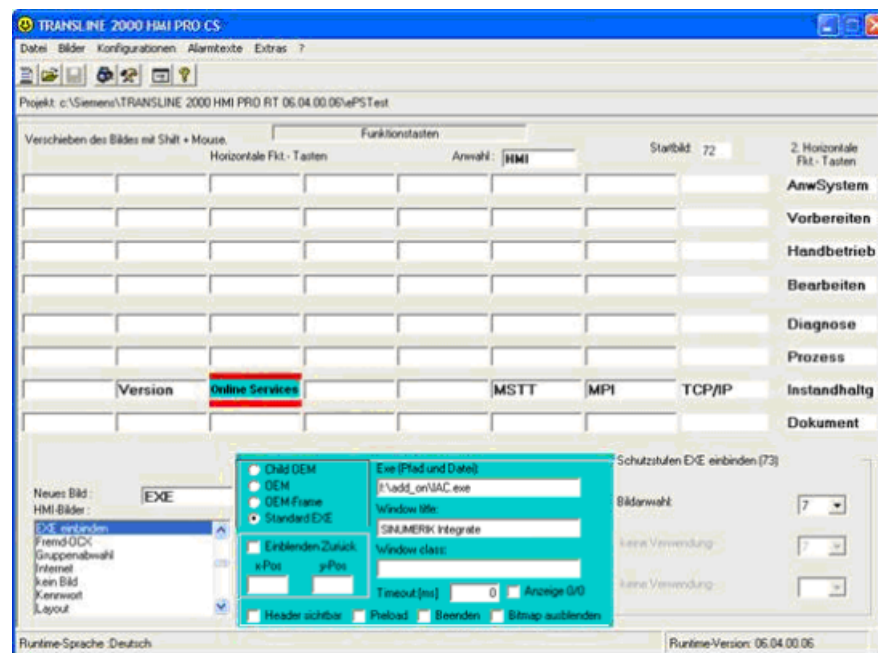
Within the external application, the "MhCtrlr.exe" file must be configured as a background process with the name "MhController".

Example: Setup client with HMI-Advanced

1. Select the menu "Configuration" and "Function keys".

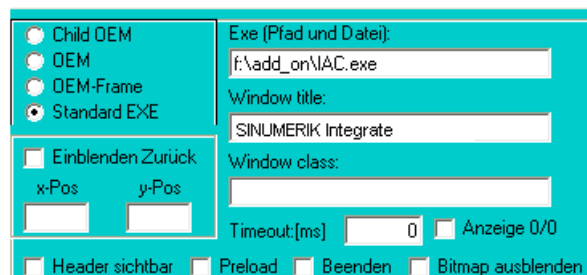
The following window is opened.

- Under "New image", enter the softkey name, e.g. "EXE".
- Define the softkey position using the <Shift> key + right mouse click.
- In the selection list "HMI images", select the function "Integrate EXE."



2. Make the other settings as follows:

- In the option field, select "Standard EXE".
- In the text field "Exe (path and file):" enter the following directory:
"f:\add_on\IAC.exe"
- In the text field "Windows title:" enter the title: "SINUMERIK Integrate"



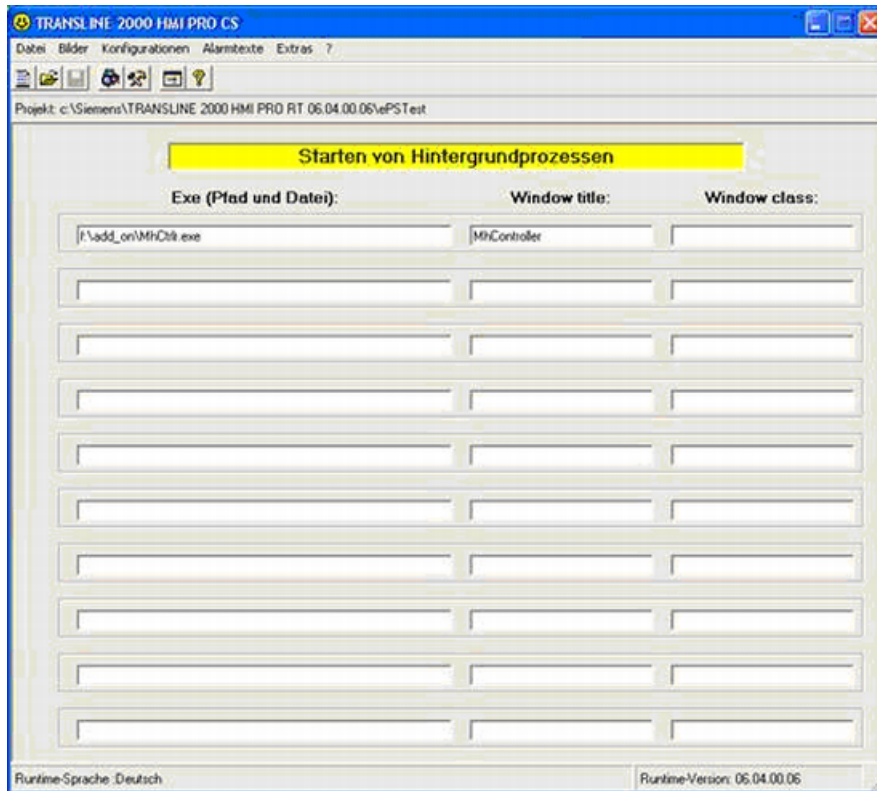
Example: Setup client without HMI-Advanced

1. Select the menu "Configuration" and "Start background processes".
The following window is opened.
 - In the text field "Exe (path and file):" enter the following directory:
"f:\add_on\MhCtrlr.exe".
 - In the text field "Windows title" enter the following title: "MhController"

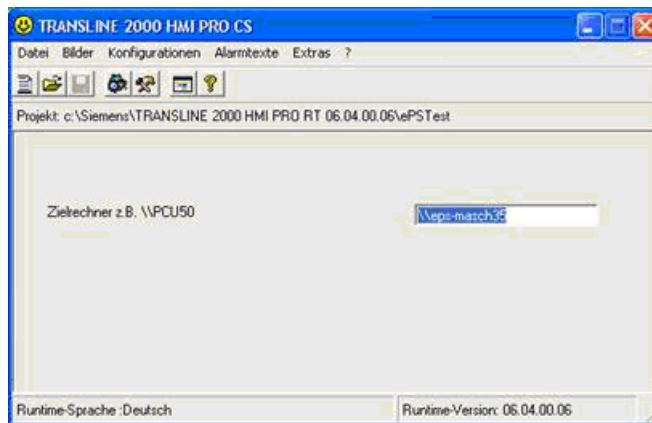
Note

It is not permissible that "MhCtrlr.exe" is started as background process, if the .exe is started as background task by the Regie (administrator) (e.g. Task88).

While installing in the control, ensure that the following connection type is not selected: "HMI-Advanced and SINUMERIK 840D/Di or 810D + PCU50/70".



2. Select the menu "File" and "Setting target computer", to configure the transfer of the project to the target computer, e.g. to the PCU.



- Select the menu "File" and "Installation of the system on PCU". The TRANSLINE system is transferred to the selected PCU and installed on the PCU with the HMI PRO setup.
- Select the menu "File" and "Installation of the project on PCU". The TRANSLINE project is transferred to the selected PCU and installed on the PCU with the HMI PRO setup.

3.3.6 Changing, repairing and uninstalling programs

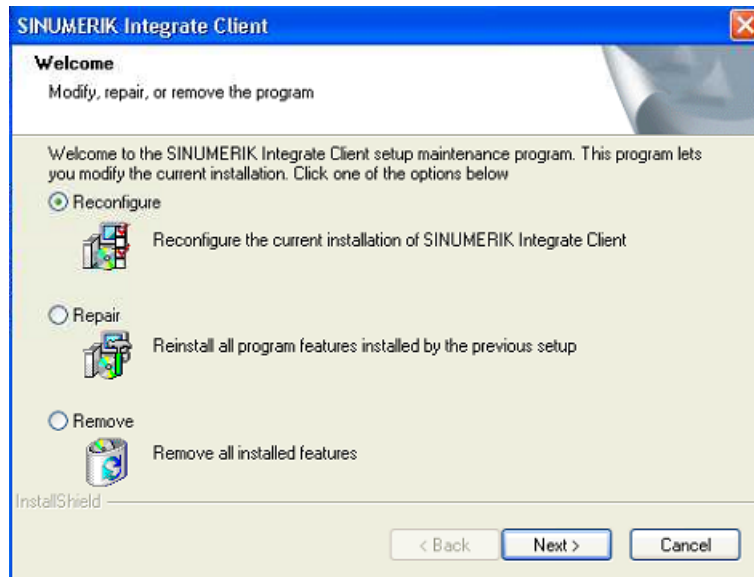
In an existing client setup, you have the option of changing, repairing or uninstalling installations.

Procedure

1. Start the PCU in the Windows service mode.
2. Open the installation directory.
3. Start the "setup.exe" setup file by double-clicking.
4. The "Welcome" window opens and offers you the following options:
 - Changing the client setup
 - Repairing the client setup
 - Removing the client setup

Changing the client setup

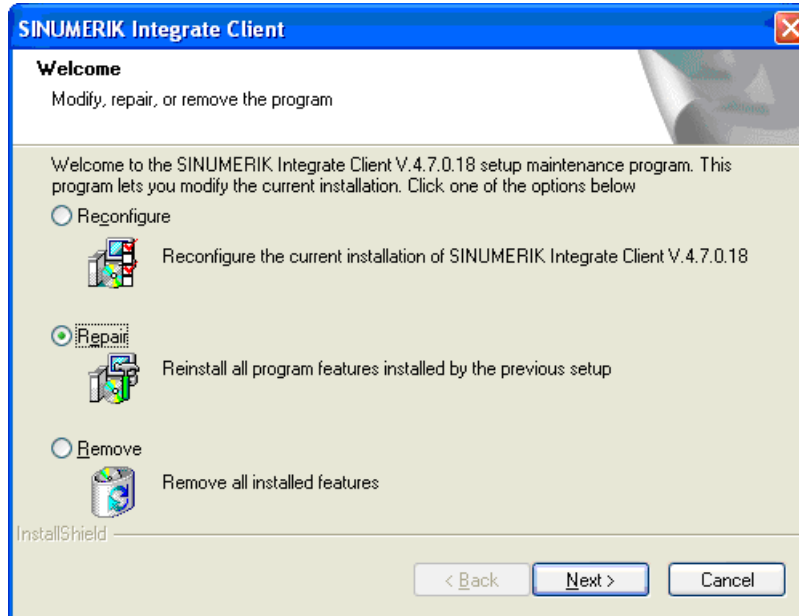
1. In the "Welcome" window, select the "Reconfigure" function if you want to change the client version.



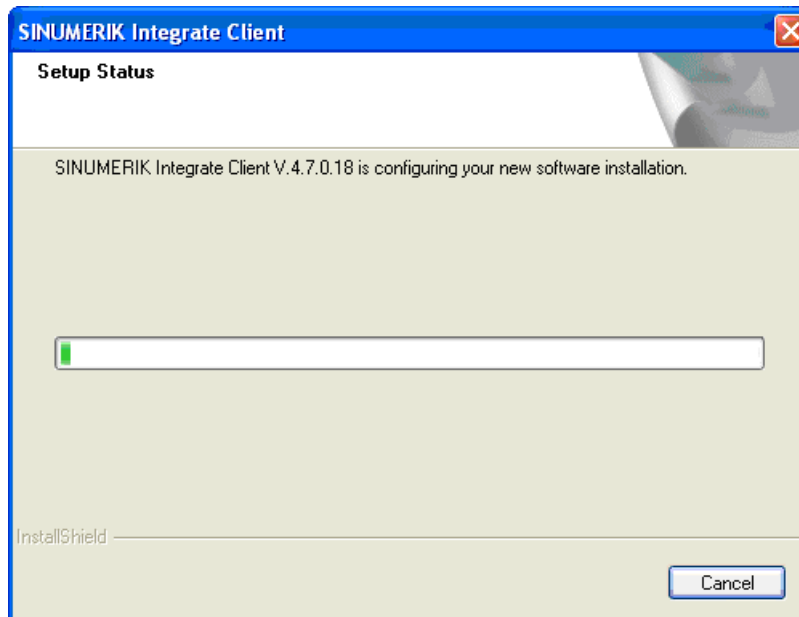
2. The next steps are described in the following Section Installing SINUMERIK Integrate client (Page 45).

Repairing the client setup

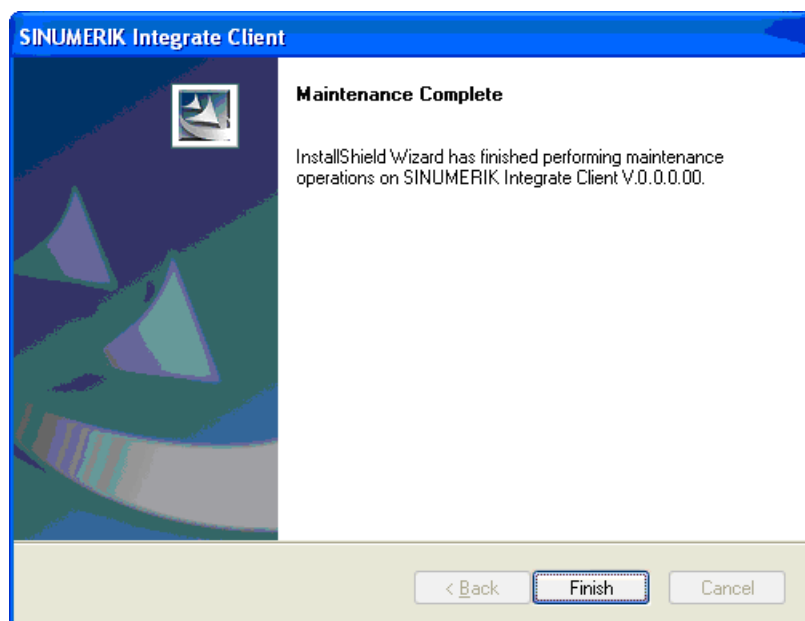
1. In the "Welcome" window, select the "Repair" function if applications are damaged and you want to restore the initial state.
Click "Next >".



2. The "Setup Status" window opens and the operation is displayed on a progress indicator.

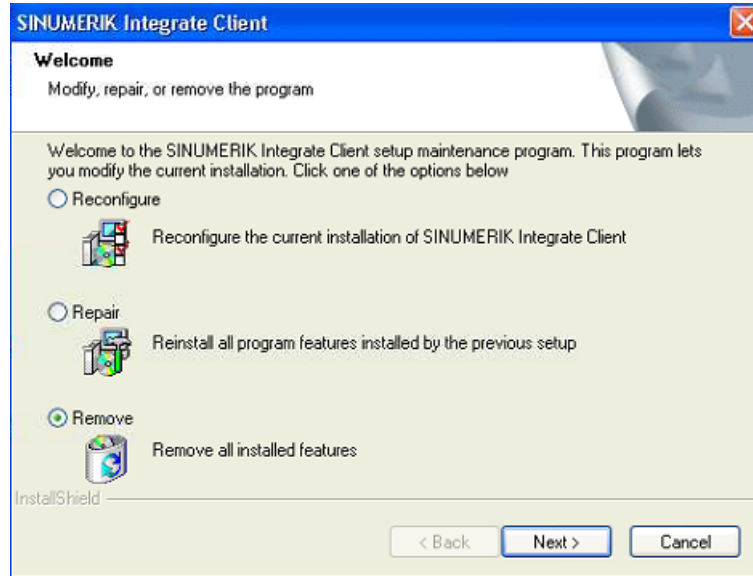


3. Click "Finish" to complete the installation.

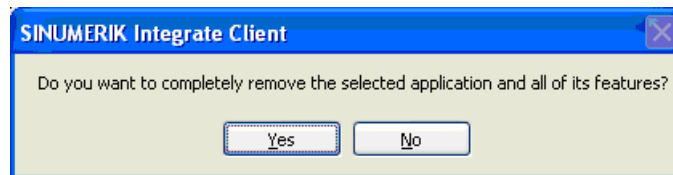


Removing the client setup

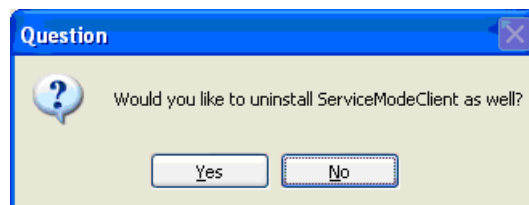
1. In the "Welcome" window, select the "Remove" function if you want to remove the client setup.
Click "Next >".



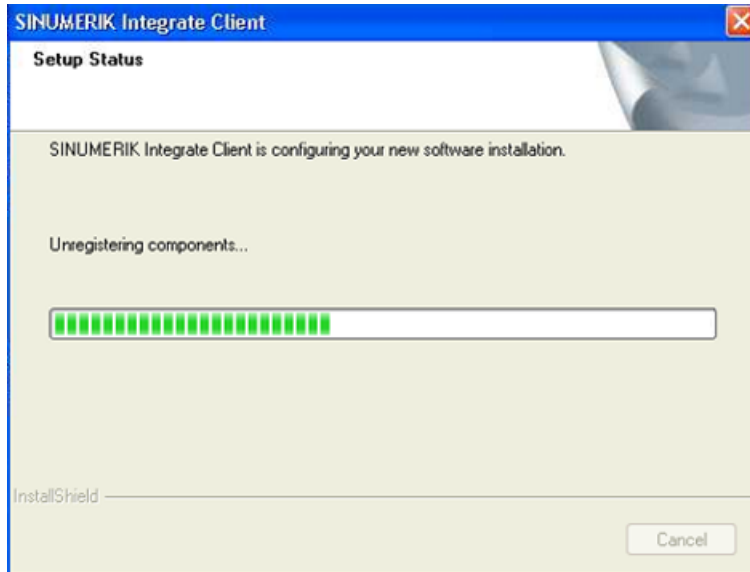
2. A confirmation prompt appears.
Confirm this message with "Yes" if an additional application is installed and you want to uninstall this application.



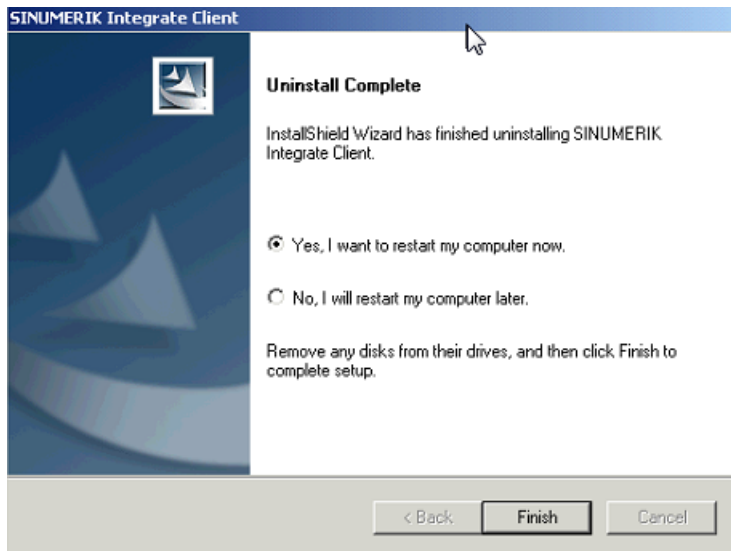
3. You may be shown an additional confirmation prompt asking, for example, whether you wish to uninstall the Service Mode Client application.
Click "Yes" to start this operation.



- 4. The uninstallation is started and the procedure is displayed on a progress indicator.



- 5. Click "Finish" to complete uninstalling.



3.4 Machine PC

3.4.1 Installing SINUMERIK Integrate client (IPC)

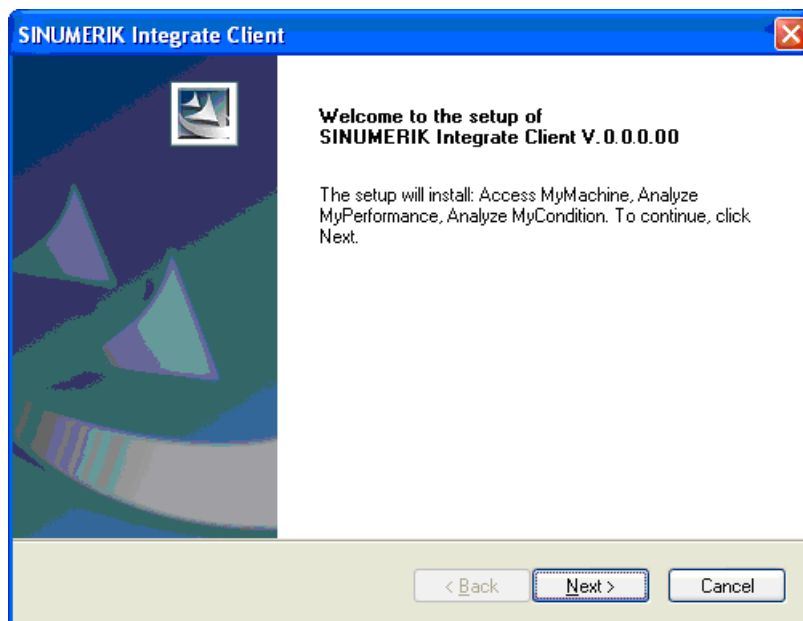
SINUMERIK Integrate Client includes the application Analyze MyCondition (AMC).

If the SINUMERIK Integrate client has already been installed, the system identifies the scope of the installation. Compared to a new installation, several installation steps are skipped.

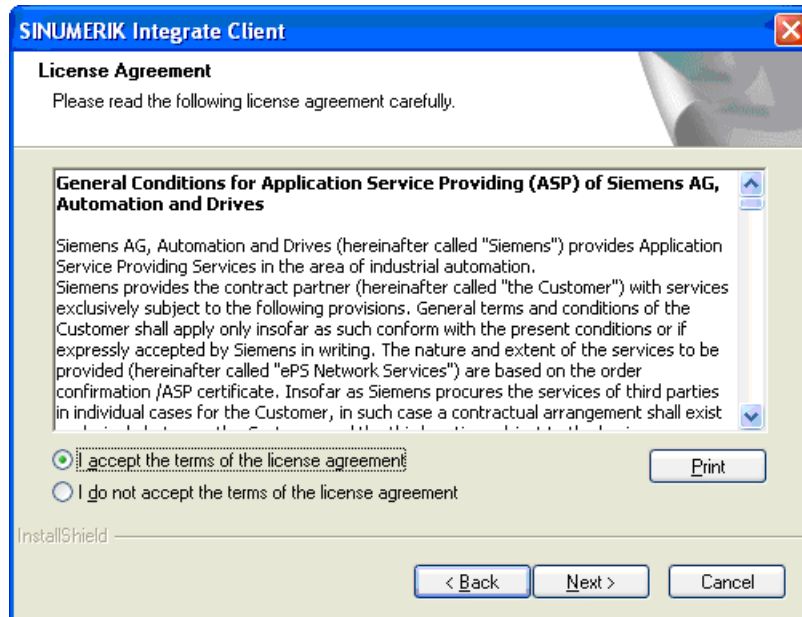
The procedure when installing for the first time is described below.

Procedure

1. Start the industrial PC (IPC) in Windows service mode.
2. Open the installation directory.
3. Start the "setup.exe" setup file by double-clicking.
4. The welcome dialog opens and displays the current version number (the current version number is displayed for "V.0.0.0.00").
The installation language is English.
Click "Next >" to prepare for the installation.



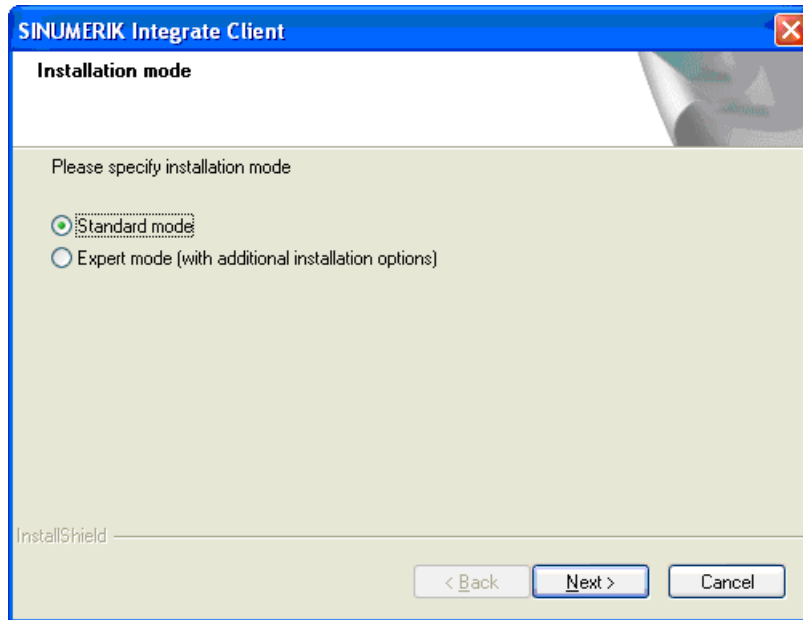
5. The "License Agreement" window opens.
Read the license agreement.
 - Click "Print" if you wish to print out the conditions.
 - Then activate the "I accept the terms of the license agreement" checkbox and click "Next >".
 - OR -
 - Click "< Back" to return to the previous window.



6. You then have the option of selecting between two installation types:

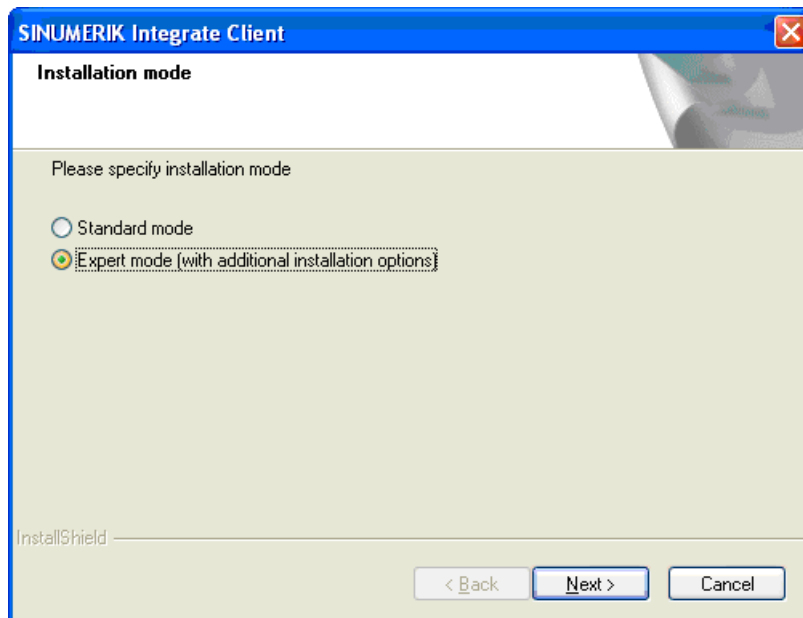
- Standard mode
The preconfigured settings are used. You can only set that the Internet settings are adapted using one option.
- Expert mode
The preconfigured settings can be changed to meet individual requirements.

Select "Standard mode" and click "Next >".

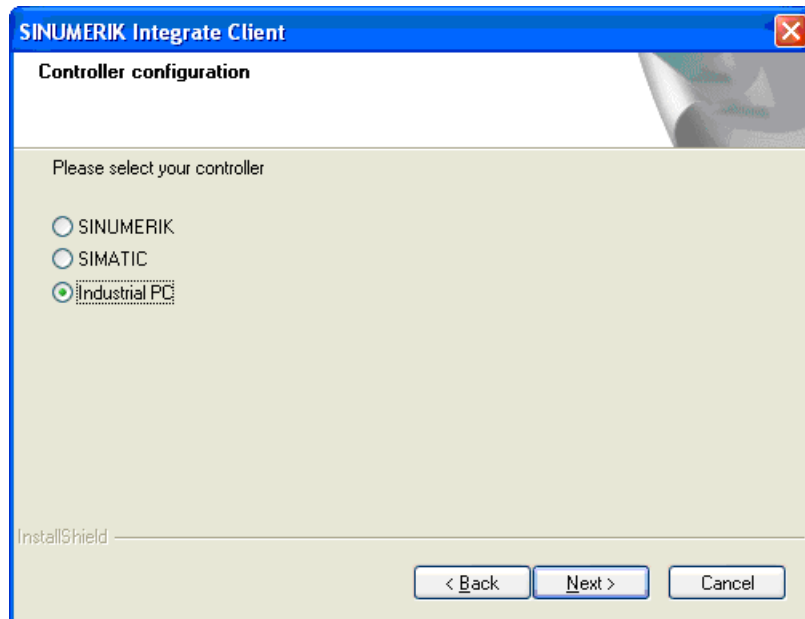


- OR -

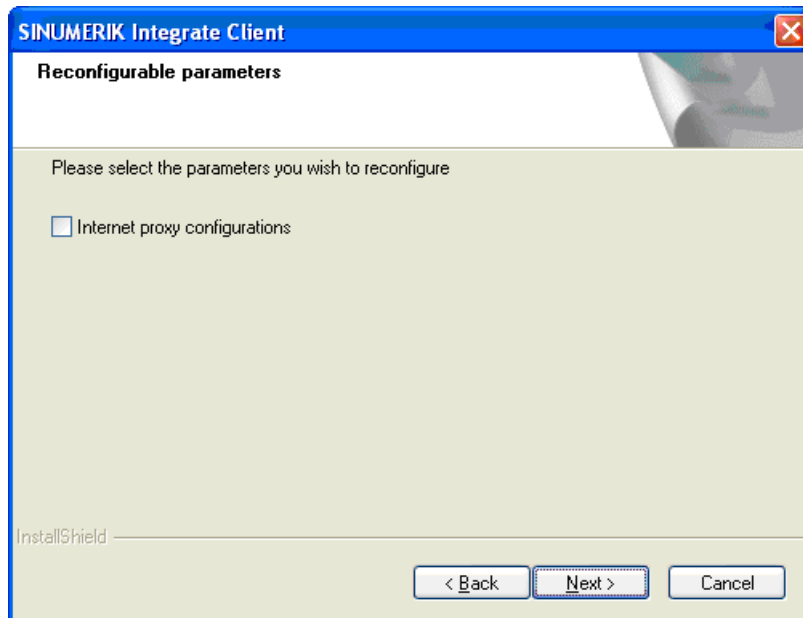
Select "Expert mode (with additional installation options)" and click "Next >".



7. The "Controller Configuration" window opens. Select "Industrial PC" and click "Next >".



8. If you selected the "Standard mode" installation type, the "Reconfigurable Parameters" window opens. Here, you can activate the "Internet proxy configurations" option if you wish to change the Internet settings. Click "Next >".



- OR -

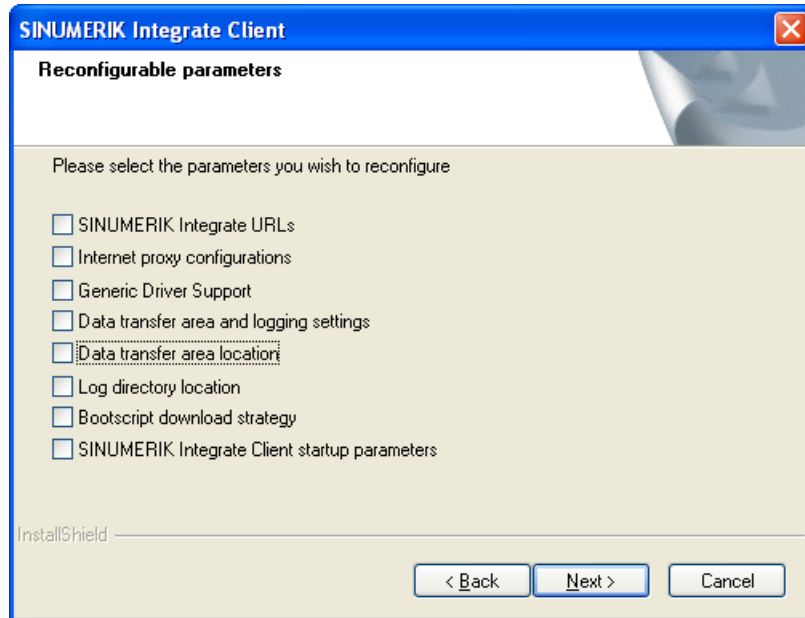
If you selected "Expert mode" installation type, the "Choose Destination Location" window opens.

The installation directory is displayed.

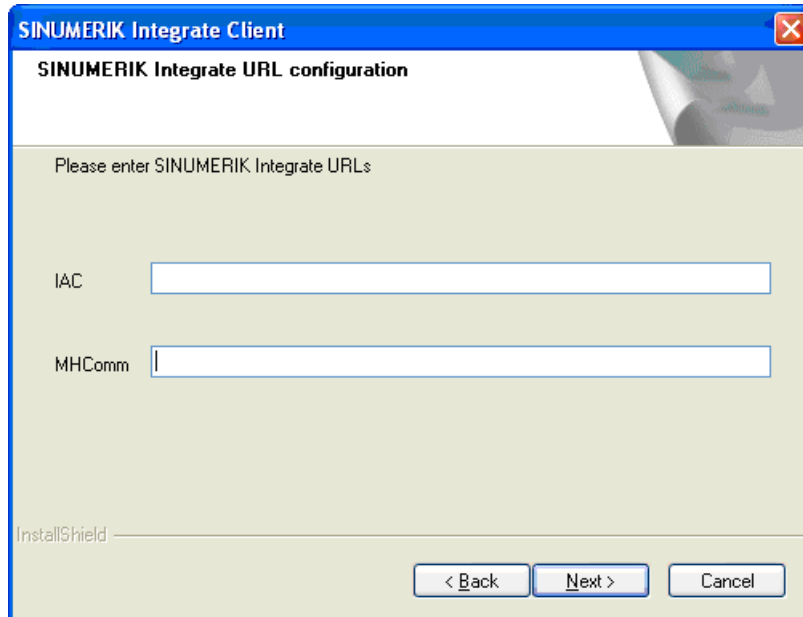
If you want to use a different directory, click "Change..." and enter the required directory.



9. If you selected the "Expert mode" installation type, the "Reconfigurable Parameters" window opens.
For the individual configuration options, see Section Configuring user-specific parameters - expert mode (Page 65)

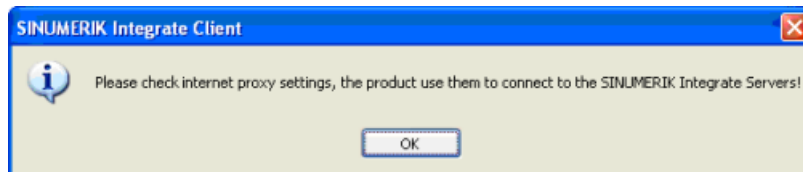


10. The "SINUMERIK Integrate URL Configuration" window opens. You define the URLs of SINUMERIK Integrate here.



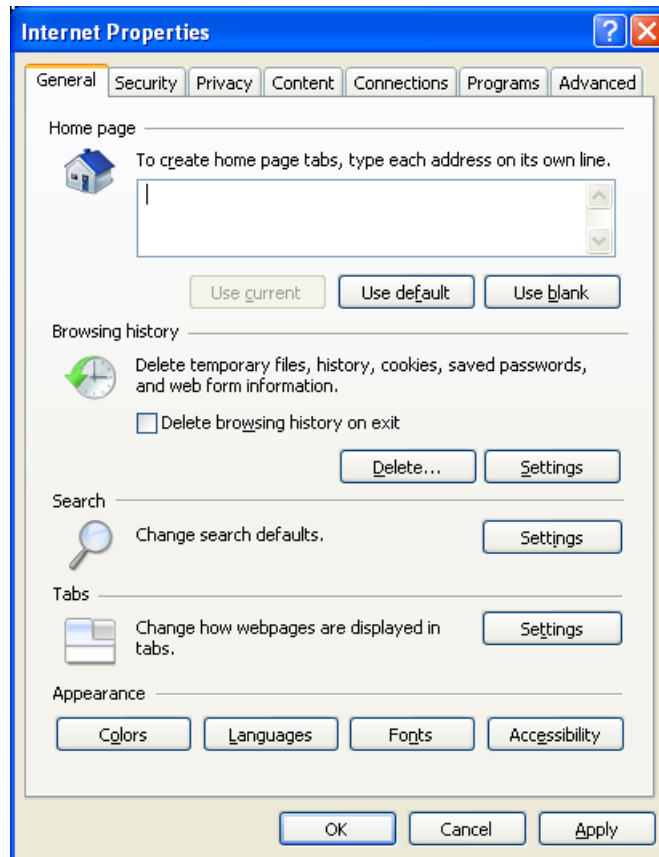
The screenshot shows a window titled "SINUMERIK Integrate Client" with a subtitle "SINUMERIK Integrate URL configuration". The window contains the text "Please enter SINUMERIK Integrate URLs". Below this text are two input fields: "IAC" and "MHComm". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

In the following prompt, you are requested to check the address settings. Confirm the prompt to check the Internet settings with "OK".

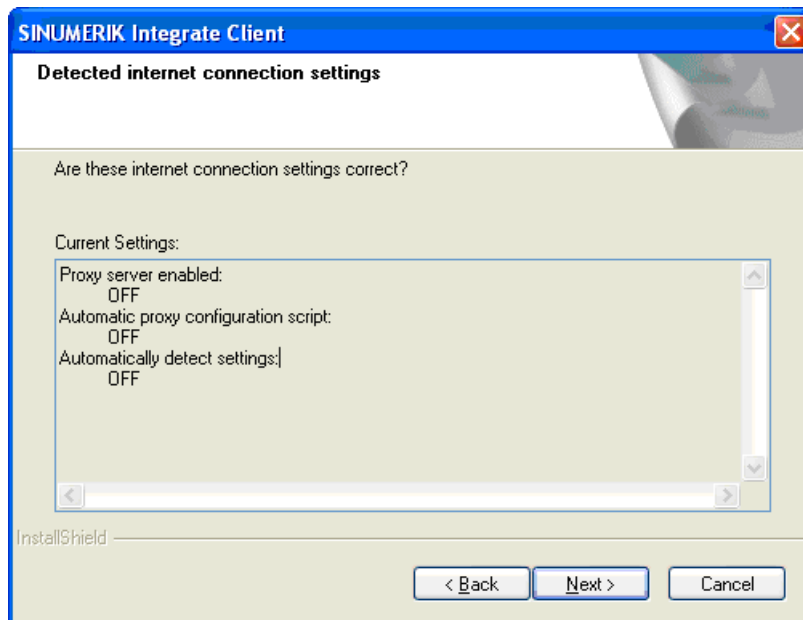


The screenshot shows a window titled "SINUMERIK Integrate Client" with a subtitle "Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!". The window contains an information icon (i) and an "OK" button.

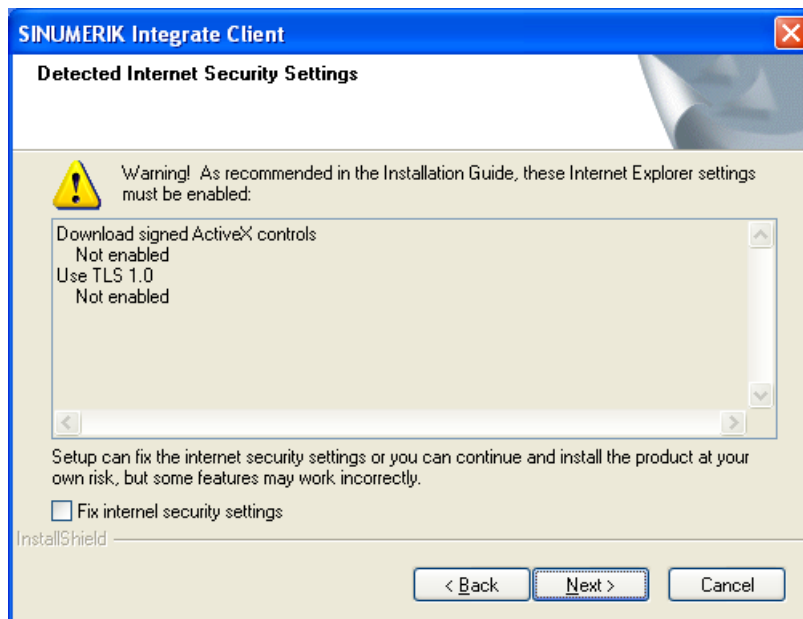
11. The "Internet Properties" window opens.
The address is specified under the "General" tab in order to create the start page tabs.
Click the "Connections" tab to set up the Internet connection and to configure the LAN settings.
Click "OK".



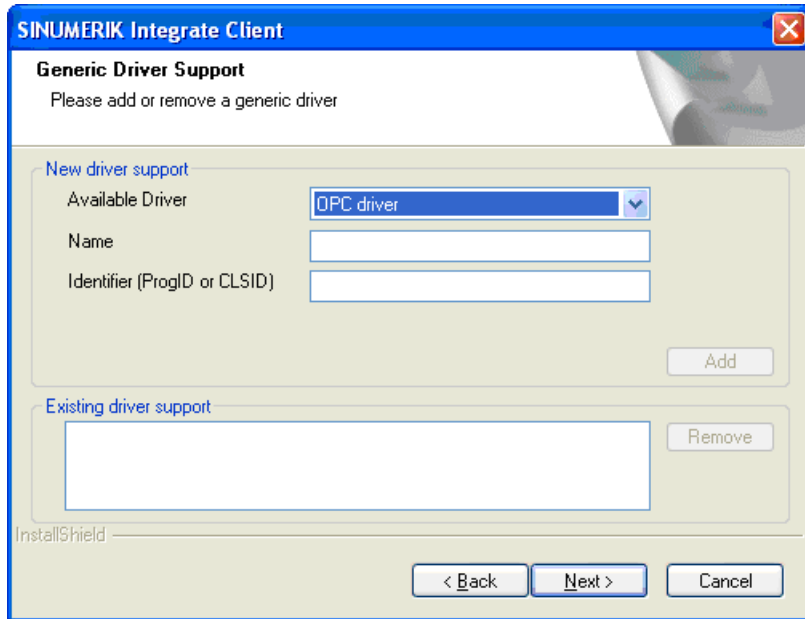
12. The "Detected Internet Connection Settings" window opens and shows the current settings. Click "< Back" to change the settings. Click "Next >" to continue.



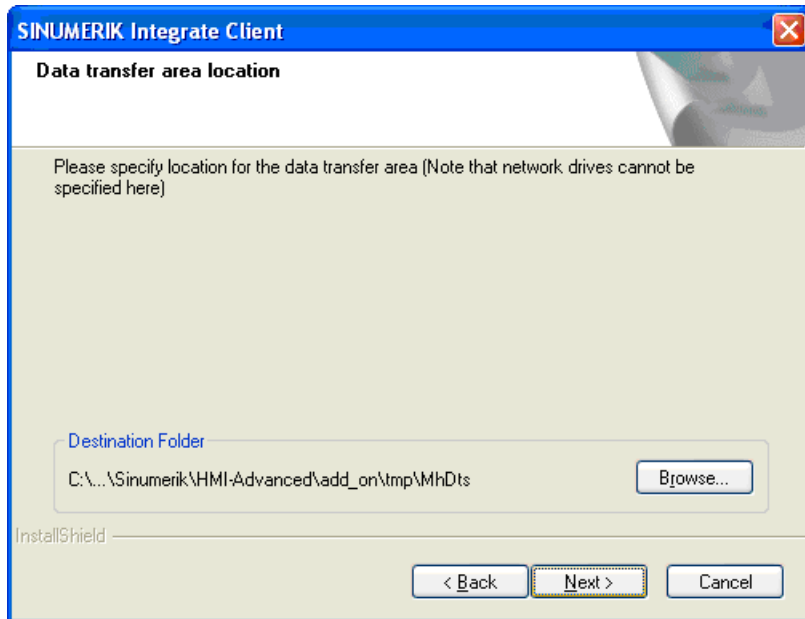
13. The settings are subject to an additional check, and an appropriate message is displayed in the "Detected Internet Security Settings" window. Click "< Back" to change the settings in the Internet Explorer. - OR - Click "Next >" to continue.



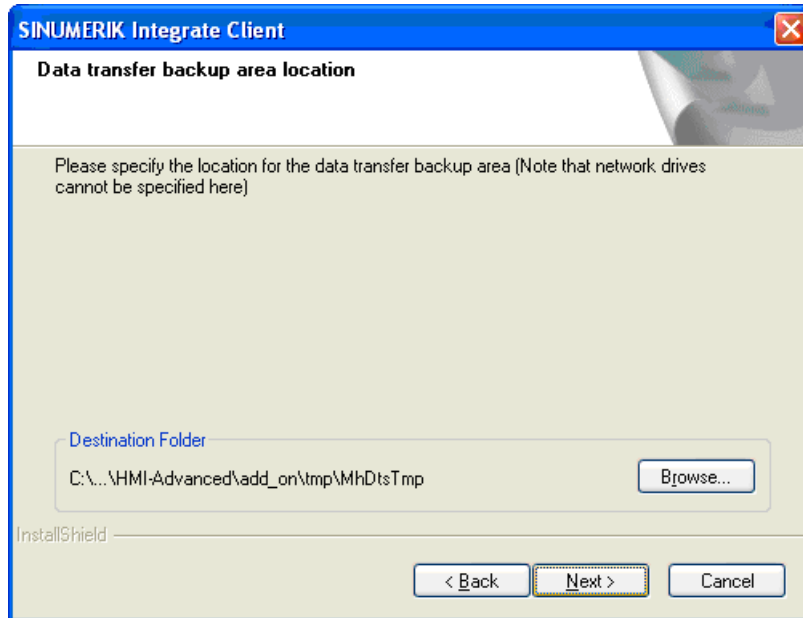
- 14. The "Generic Driver Support" window opens. Additional devices can be integrated here. Select "OPC driver" and click "Next >".



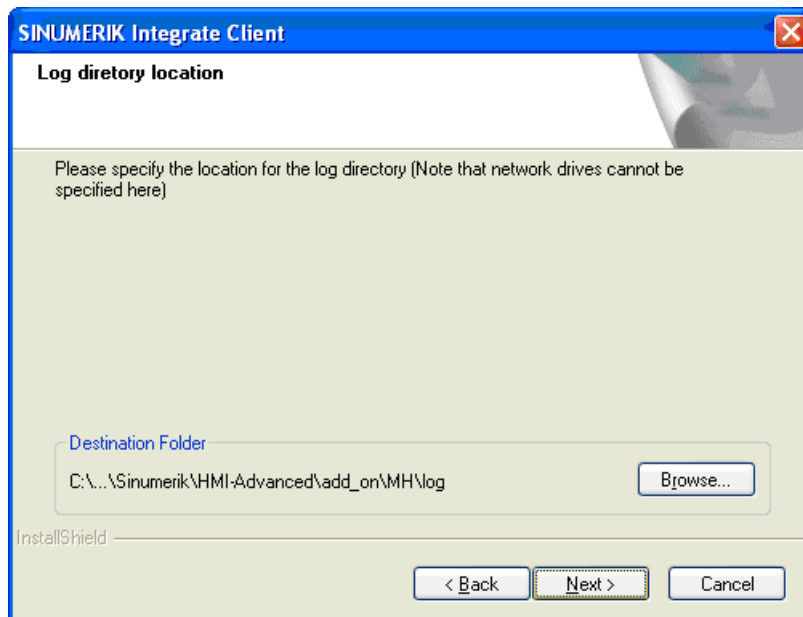
- 15. The "Data Transfer Backup Area Location" window opens and shows the archive directory for the transfer data. Click "Browse..." if you want to create another directory. Click "Next >" to continue.



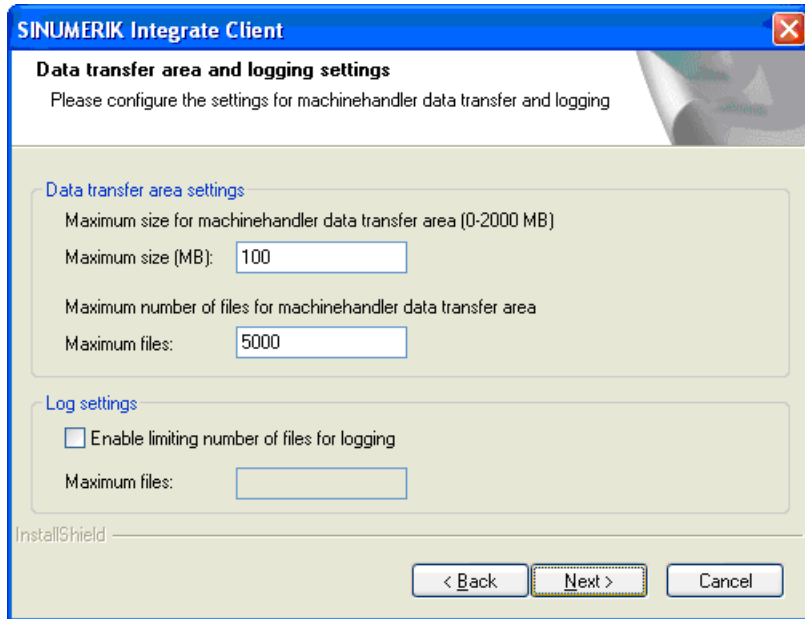
16. The "Data Transfer Backup Area Location" window opens and shows the archive directory for the temporary data.
Click "Browse..." if you want to create another directory.
Click "Next >" to continue.



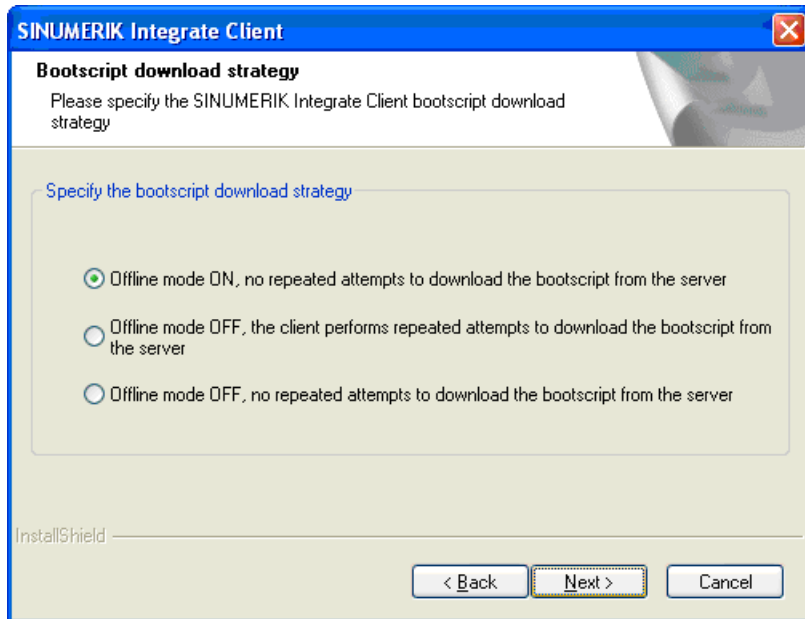
17. The "Log Directory Location" window opens and shows the archive directory for the log data.
Click "Browse..." if you want to create another directory.
Click "Next >" to continue.



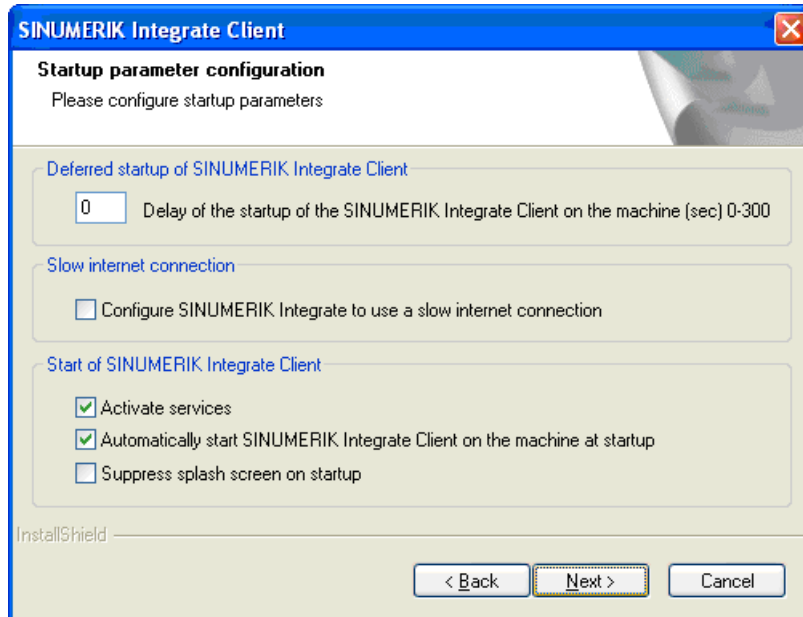
- 18. The "Data Transfer Area and Logging Settings" window opens. Here you define the data storage during an Internet connection fault. Enter the maximum data volume for the transfer data and click "Next >".



- 19. The "Boot Script Download Strategy" window opens. You can select one of three different strategies for the download. Click "Next >".



20. The "Startup Parameter Configuration" window opens.
Select the start properties of the client.
Click "Next >".



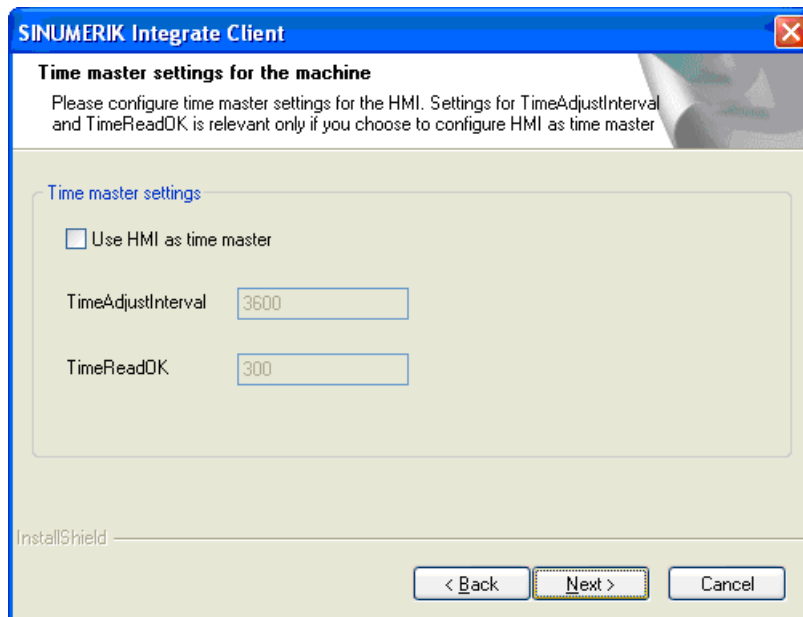
The screenshot shows the "SINUMERIK Integrate Client" window with the "Startup parameter configuration" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Startup parameter configuration" with the instruction "Please configure startup parameters".

The configuration is divided into three sections:

- Deferred startup of SINUMERIK Integrate Client:** A text input field contains "0" and is followed by the text "Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300".
- Slow internet connection:** A checkbox labeled "Configure SINUMERIK Integrate to use a slow internet connection" is currently unchecked.
- Start of SINUMERIK Integrate Client:** Three checkboxes are present: "Activate services" (checked), "Automatically start SINUMERIK Integrate Client on the machine at startup" (checked), and "Suppress splash screen on startup" (unchecked).

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

21. The "Time Master Settings for the Machine" window opens. You can change the time synchronization between the PLC and HMI.
Activate the "Use HMI as time master" checkbox to activate the time synchronization.
Click "Next >".



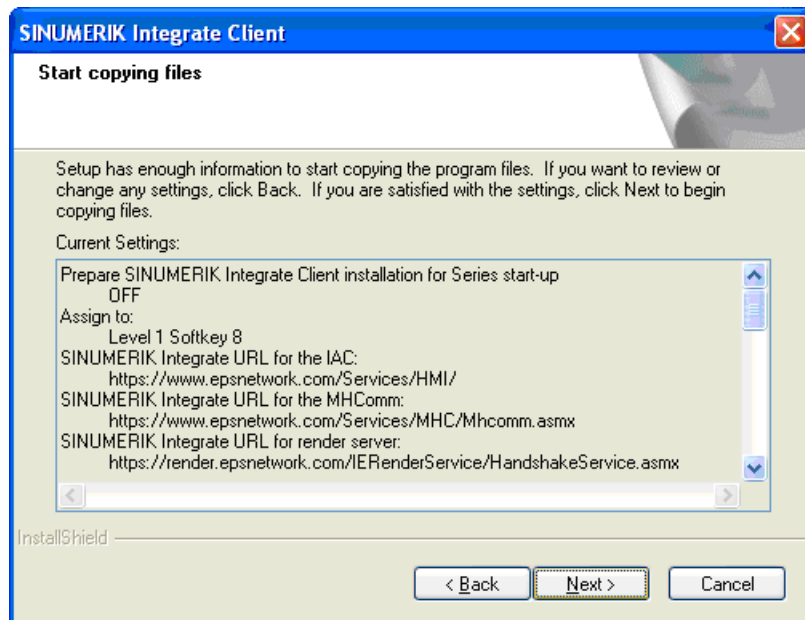
The screenshot shows the "SINUMERIK Integrate Client" window with the "Time master settings for the machine" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Time master settings for the machine" with the instruction "Please configure time master settings for the HMI. Settings for TimeAdjustInterval and TimeReadOK is relevant only if you choose to configure HMI as time master".

The configuration is divided into one section:

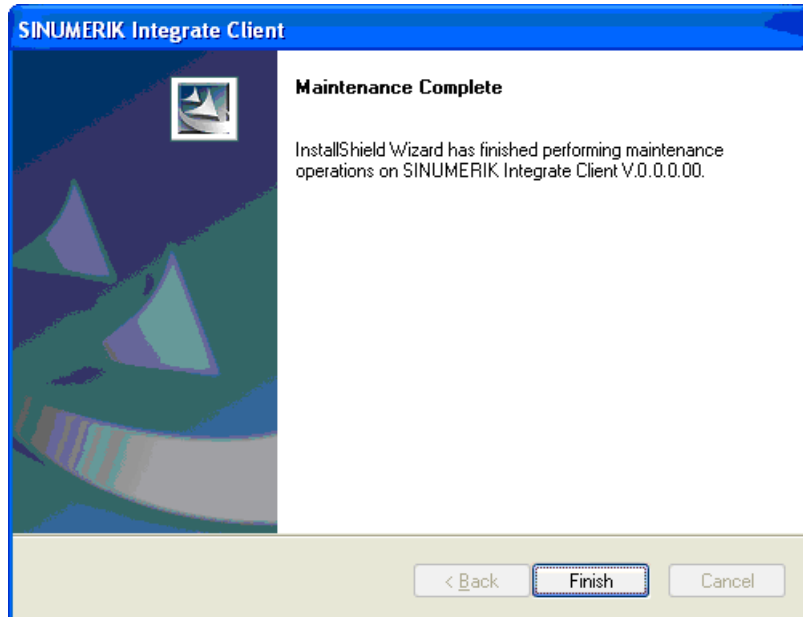
- Time master settings:** A checkbox labeled "Use HMI as time master" is currently unchecked. Below it are two text input fields: "TimeAdjustInterval" with the value "3600" and "TimeReadOK" with the value "300".

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

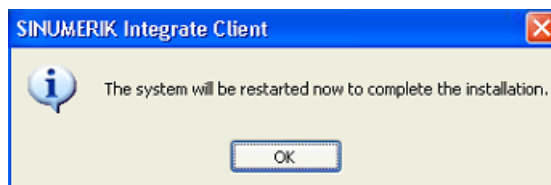
22. The "Start Copying Files" window opens and shows an overview of the settings that you have made.
Click "Next >" to start the installation.



23. The "Maintenance Complete" window opens.
Click "Finish" to complete the installation.



24. You are prompted to restart the system after the installation has been completed.
To do this, click "OK".



3.5 Workstation PC

3.5.1 Client setup

A client installation is not required on a workstation PC.

Requirement

Only for standalone (intranet):

In order to set up users and machines on the local server, Internet Explorer is required on the workplace PC.

To find out which Internet Explorer is suitable for your PC, see Section System preconditions (Page 17).

References

Detailed information regarding the functions of AMC is provided in the following documentation:
Function Manual, SINUMERIK Integrate AMC.

Access MyMachine/Ethernet (AMM/E) client setup

4.1 Overview

The Access MyMachine/Ethernet application is supported only for a separate installation of Windows on a PCU 50 with HMI-Advanced.

For a control system with SINUMERIK Operate on NCU (Linux) or on the PCU (Windows), the application is available without separate installation. The application functionality is installed with the client installation of SINUMERIK Integrate.

In addition to the embedded AMM/E client, it is possible to use the AMM/E functions on Windows control systems (as of XP SP3), provided the control system is in service mode, the so-called AMM Service Client MO (ASC-MO).

Prerequisite for a client update

For a client update, the machine must be connected to the SINUMERIK Integrate Server.

Installation

Refer to the following sections regarding the installation:

- Machine with SINUMERIK Operate: Machine with SINUMERIK Operate (Page 111)
- PCU 50 with HMI-Advanced: Machine with HMI-Advanced (Page 115)
- Machine PC: Machine PC (Page 136)
- Workplace PC: Workplace PC (Page 149)

Client update

If remote access software is available on the control system, you can install the current AMM/E application using an update.

For an update, the old version is automatically uninstalled and replaced by the current version.

If no predecessor version is available, "Update XY" is used to perform a client setup.

4.1 Overview

The current AMM/E application can be installed in the following ways:

- PCU 50 with HMI-Advanced:
 - In SINUMERIK Integrate Client, the "Update Teleservice" function updates the AMM/E functionality in SINUMERIK Integrate and the AMM/E Service Client MO, see Section Teleservice Client-Update (Page 115)
 - You can also use the "Update ASC-MO" function to update only the AMM/E Service Client MO (ASC-MO), see Section Installation/Update AMM/E SE (ASC-MO) (Page 117)
- NCU/PCU with SINUMERIK Operate:
 - You can use only the Update function for AMM/E Service Client MO (ASC-MO), see Section Installation/Update AMM/E SE (ASC-MO) (Page 111)

4.2 Machine with SINUMERIK Operate

4.2.1 Installing the AMM/E SE

If you operate a PCU 50 (Windows) or an NCU (Linux) with the "SINUMERIK Operate" operating software, you do not require a separate installation.

The functionality is installed with the client installation of SINUMERIK Integrate, see Section Machine with SINUMERIK Operate (Page 20).

If you want to use the AMM/E functionality on a PCU control system in service mode, you must install the AMM/E Service Client MO beforehand, see Section Installation/Update AMM/E SE (ASC-MO) (Page 111)

4.2.2 Installation/Update AMM/E SE (ASC-MO)

Before participating in a session, you require a current "AMM/E Service Client MO" client on the control system with SINUMERIK Operate.

If the current version has already been installed, the "Update ASC-MO" softkey is not active.

If the prerequisite for the control system is not satisfied, i.e. Windows earlier than XP SP3 or Linux, the "Update ASC-MO" softkey is not displayed.

The Access MyMachine Service Client MO (ASC-MO) offers the same AMM/E functionality as the SINUMERIK Integrate Client. You can, however, use the ASC-MO when the control system is in service mode, i.e. without the operating software running.

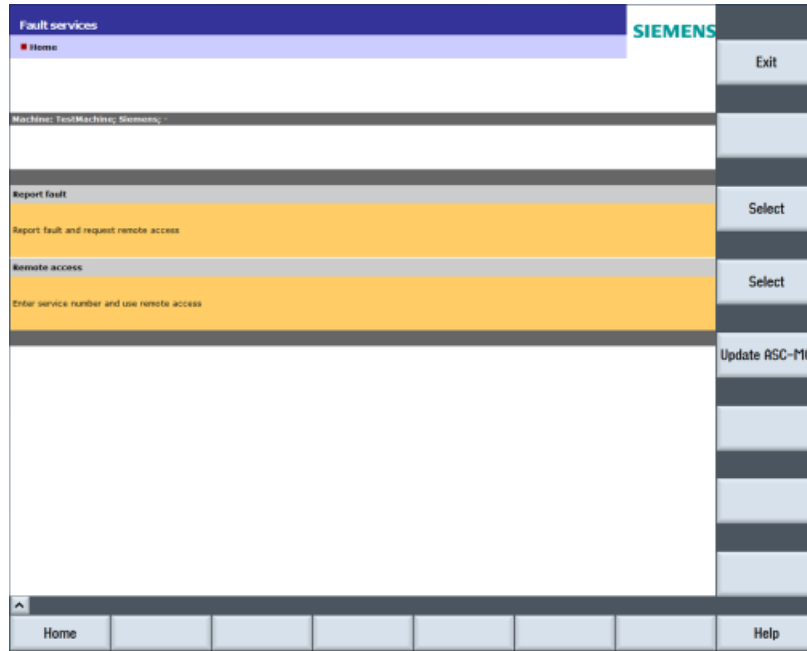
Requirement

You require a control system with Windows XP SP3 or later.

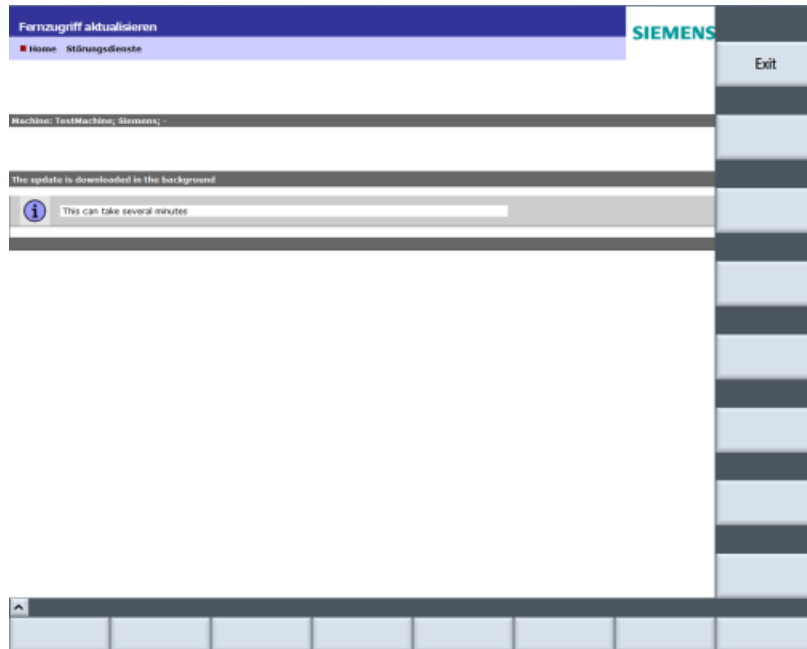
Procedure

1. Start "SINUMERIK Integrate" on the control system.
2. In the "Fault services" section, press the "Select" softkey.
The "Fault Services" window opens.

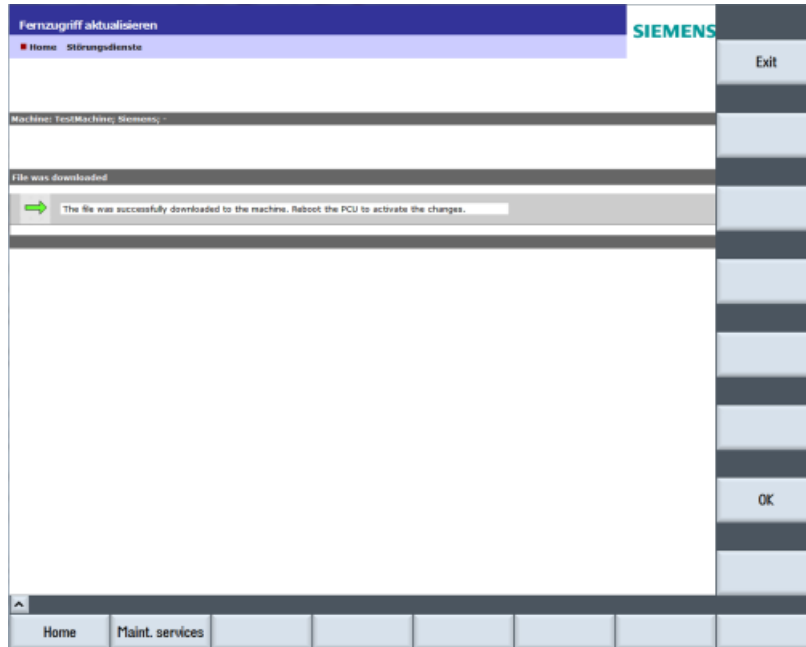
- 3. Press the "Update ASC-MO" softkey.



- 4. The client setup for AMM/E Service Client (ASC-MO) is downloaded in the background. The client setup is loaded in the D:\Install directory by default. The download is started and informs you about its progress.



5. You receive a success or error message on completion of the installation. Press the "OK" softkey.



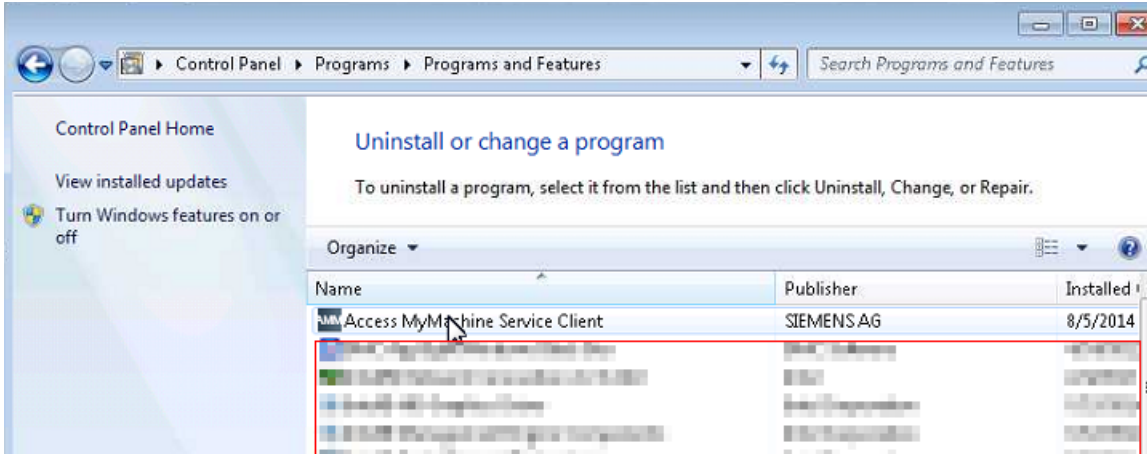
6. You can use AMM/E Service Client after a restart.

The procedure for making the settings is described in the following Section Configuring ASC-SE/ASC-MO (Page 157)

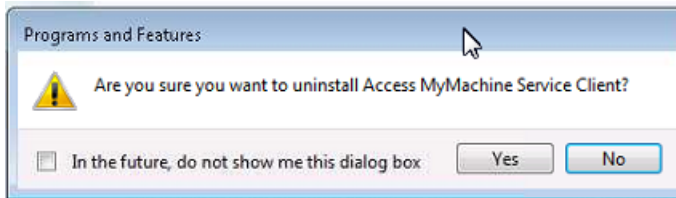
4.2.3 Uninstalling AMM/E Service Client

Procedure

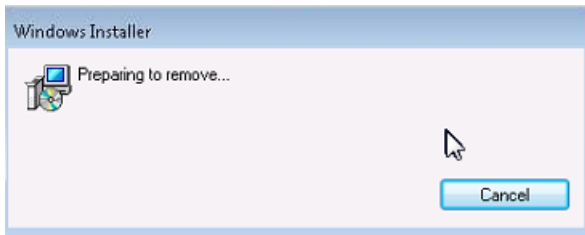
1. The "Add or Remove Programs" window opens.
Select the setup "Access MyMachine Service Client" and click the "Remove" button.



2. You receive a prompt whether you really want to remove "Access MyMachine Service Client".
Click "No" to abort the operation.
Click "Yes" to start the uninstallation



3. The uninstallation is started and the procedure is displayed on a progress bar.



4.3 Machine with HMI-Advanced

4.3.1 Teleservice Client-Update

Before participating in a session, you require a current "AMM/E Service Client MO" client on the control system with HMI-Advanced.

If the current version has already been installed, the "Update Teleservice" softkey is not active.

If the prerequisite for the control system is not satisfied, i.e. Windows earlier than XP SP3 or Linux, the "Update Teleservice" softkey is not displayed.

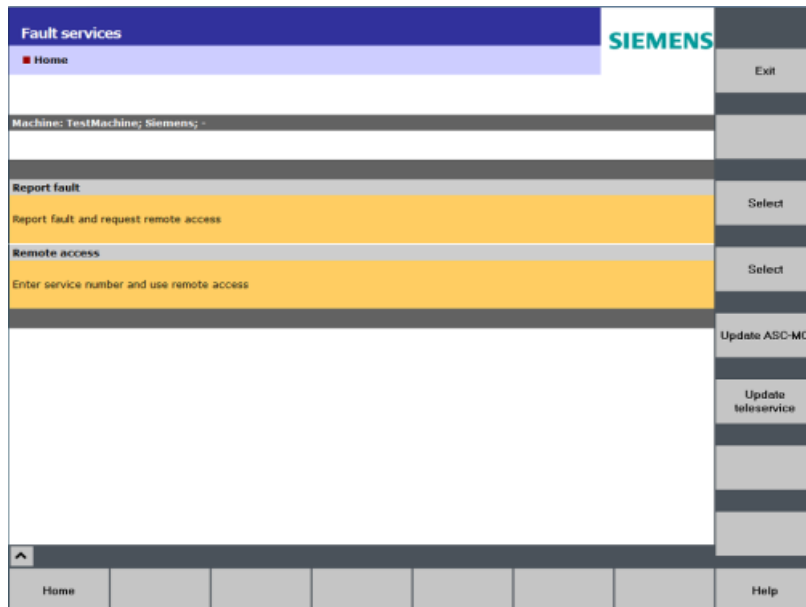
The "Update Teleservice" function updates the AMM/E functionality in SINUMERIK Integrate client and the AMM/E Service Client MO.

Requirement

You require a control system with Windows XP SP3 or later.

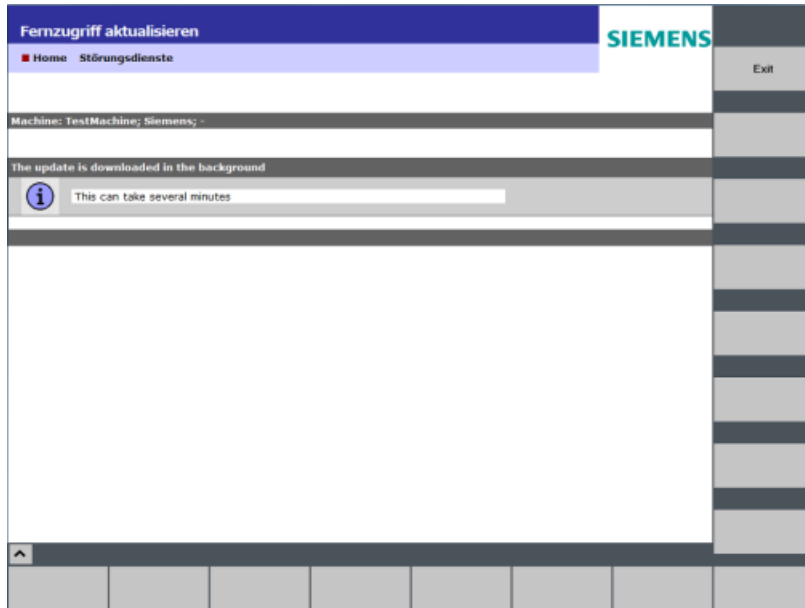
Procedure

1. Start "SINUMERIK Integrate" on the control system.
2. In the "Fault services" section, press the "Select" softkey.
The "Fault Services" window opens.
3. Press the "Update Teleservice" softkey.

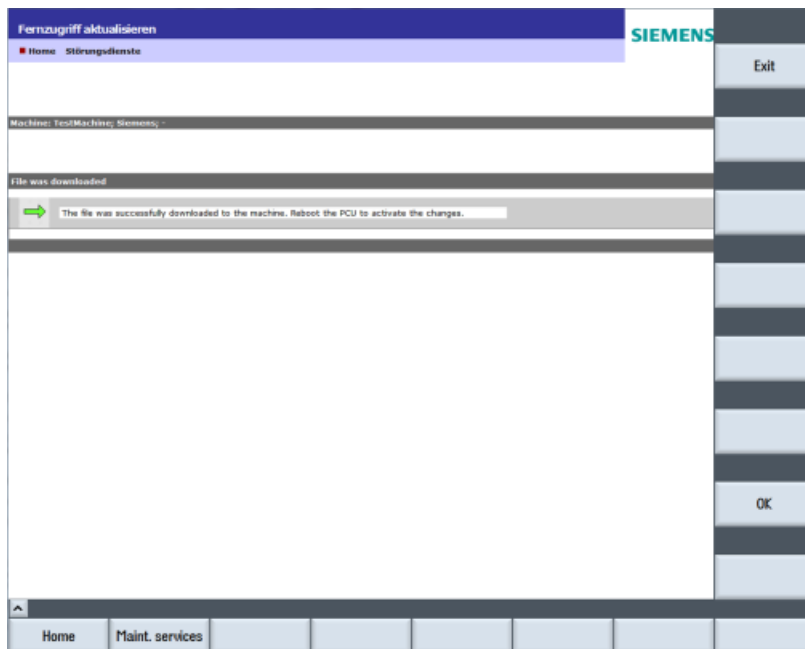


4.3 Machine with HMI-Advanced

- The client setup for Teleservice is downloaded in the background. The client setup is loaded in the D:\Install directory by default. The download is started and informs you about its progress.



- You receive a success or error message on completion of the installation.



- You can use the remote access function after a restart.

4.3.2 Installation/Update AMM/E SE (ASC-MO)

Before participating in a session, you require a current "AMM/E Service Client MO" client on the control system with HMI-Advanced.

If the current version has already been installed, the "Update ASC-MO" softkey is not active.

If the prerequisite for the control system is not satisfied, i.e. Windows earlier than XP SP3 or Linux, the "Update ASC-MO" softkey is not displayed.

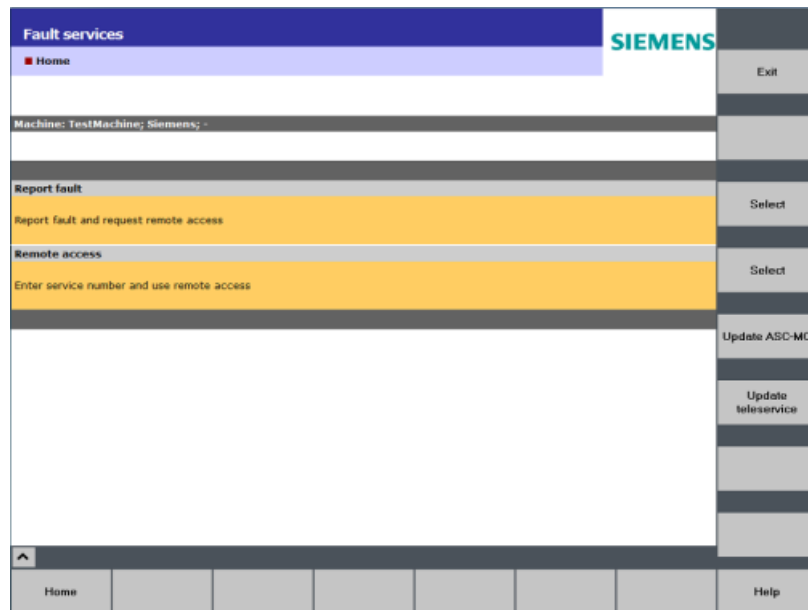
The Access MyMachine Service Client MO (ASC-MO) offers the same AMM/E functionality as the SINUMERIK Integrate Client. You can, however, use the ASC-MO when the control system is in service mode, i.e. without the operating software running.

Requirement

You require a control system with Windows XP SP3 or later.

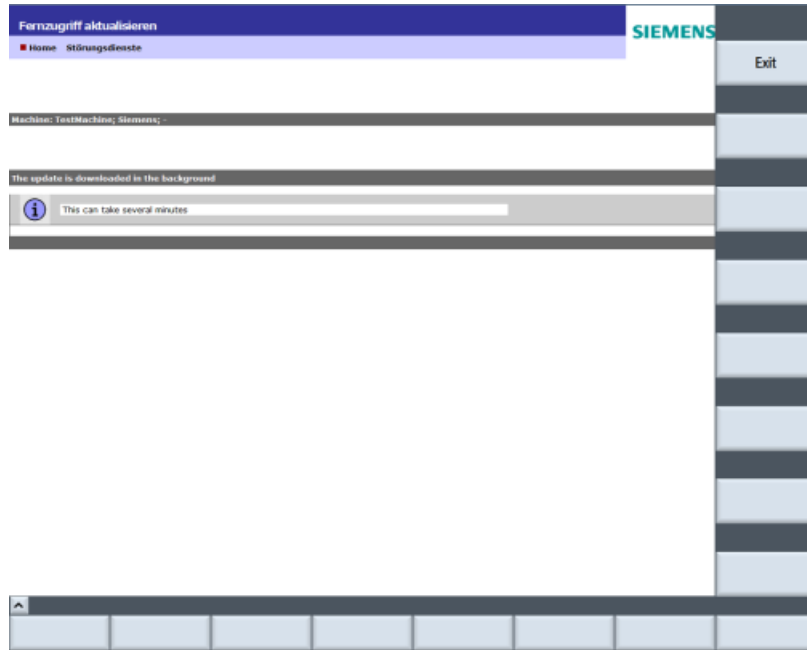
Procedure

1. Start "SINUMERIK Integrate" on the control system.
2. In the "Fault services" section, press the "Select" softkey.
The "Fault Services" window opens.
3. Press the "Update ASC-MO" softkey.

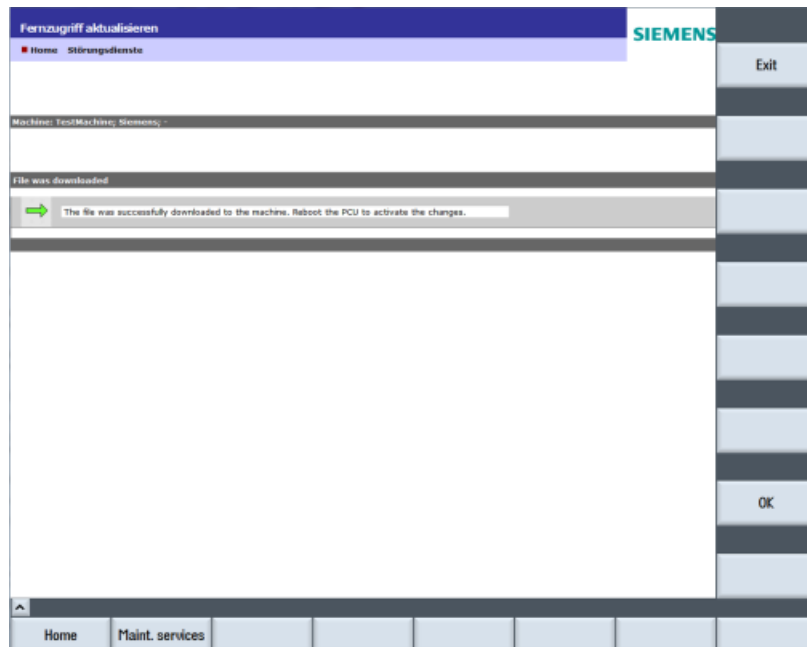


4.3 Machine with HMI-Advanced

- The client setup for AMM/E Service Client (ASC-MO) is downloaded in the background. The client setup is loaded in the D:\Install directory by default. The download is started and informs you about its progress.



- You receive a success or error message on completion of the installation. Press the "OK" softkey.



- You can use AMM/E Service Client MO after a restart.

4.3.3 Configuring SINUMERIK Integrate client

If the SINUMERIK Integrate client has already been installed, then the system identifies the scope of the installation. When compared to a new installation, several installation steps are skipped.

The procedure is subsequently described if the SINUMERIK Integrate client setup was already installed with another application, e.g. AMC and you wish to add the Access MyMachine/Ethernet (AMM/E) application.

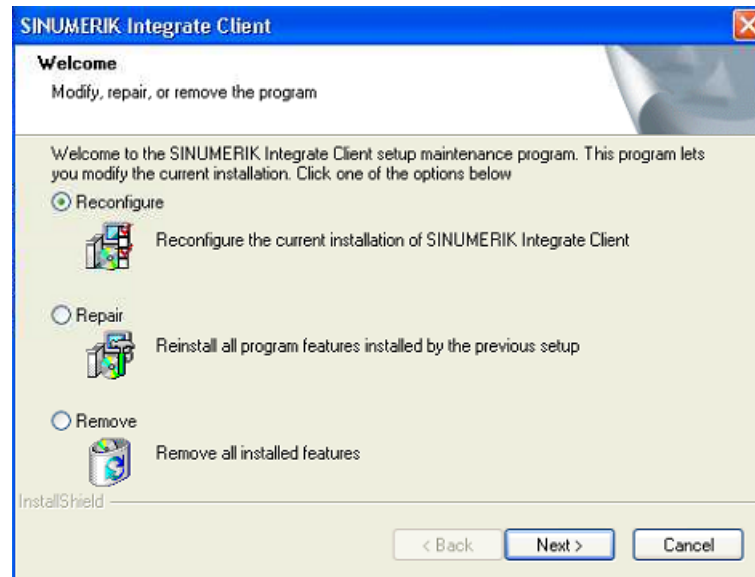
If you are installing for the first time, see Chapter: Installing SINUMERIK Integrate client (Page 45).

Also see "Delivery form of the client setups" in Chapter: Product overview (Page 13)

Procedure

1. Start the PCU in the Windows service mode.
2. Open the installation directory.
3. Start the "ePS_Client_AT.exe" setup file with a double click.
4. The "Welcome" window opens.
The default installation language is English and offers you the following options:
 - Changing the client setup
 - Repairing the client setup
 - Removing the client setup

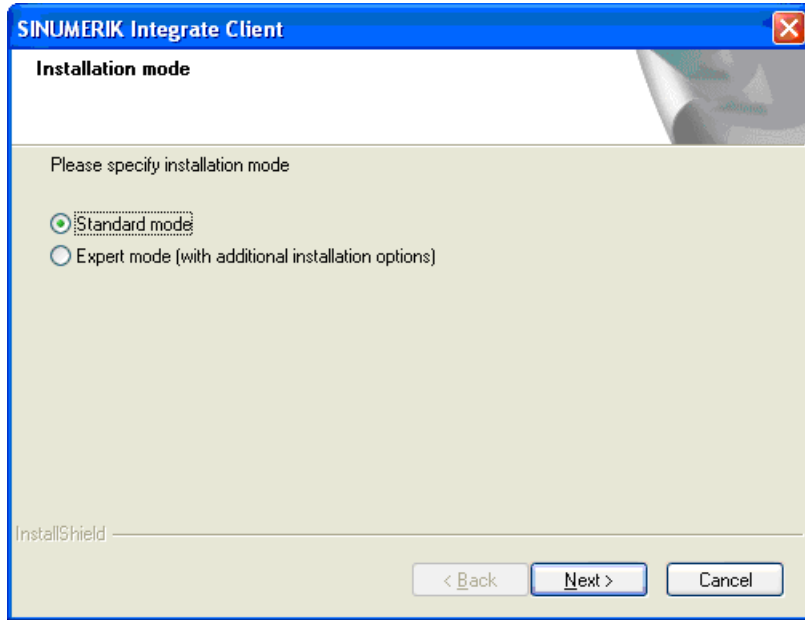
Select "Reconfigure" and click "Next >".



4.3 Machine with HMI-Advanced

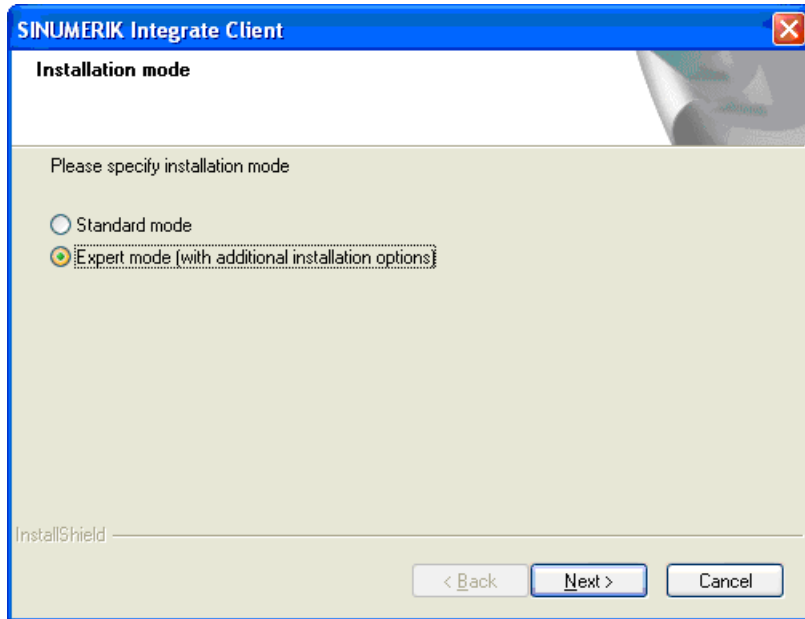
- 5. You then have the option of selecting between two installation types:
 - Standard mode
The preconfigured settings are used.
 - Expert mode
The preconfigured settings can be changed to meet individual requirements.

Select "Standard mode" and click "Next >".



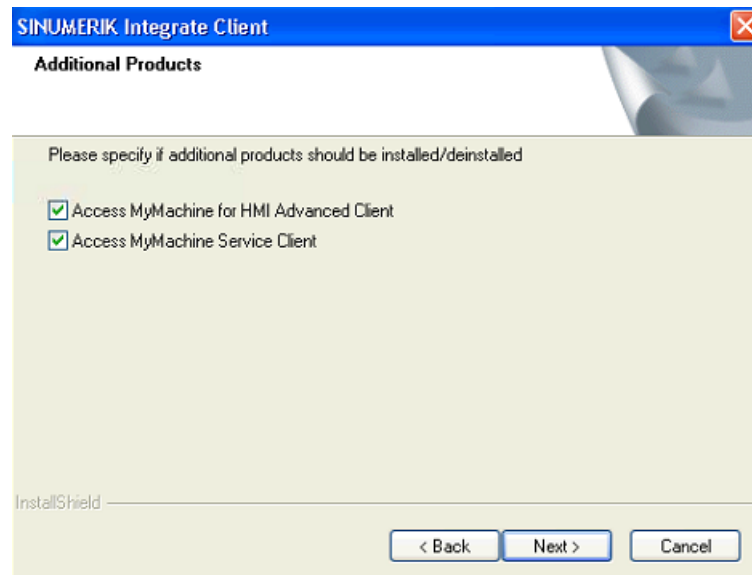
- OR -

Select "Expert mode (with additional installation options)" and click "Next >".



6. The "Additional Products" window opens if you use Windows XP SP3 or higher versions.
 - Select "Access MyMachine for HMI Advanced" if you are installing AMM/E without the service client.
 - AND /OR -
 - Select "Access MyMachine Service Client" to install the service client necessary for remote access.

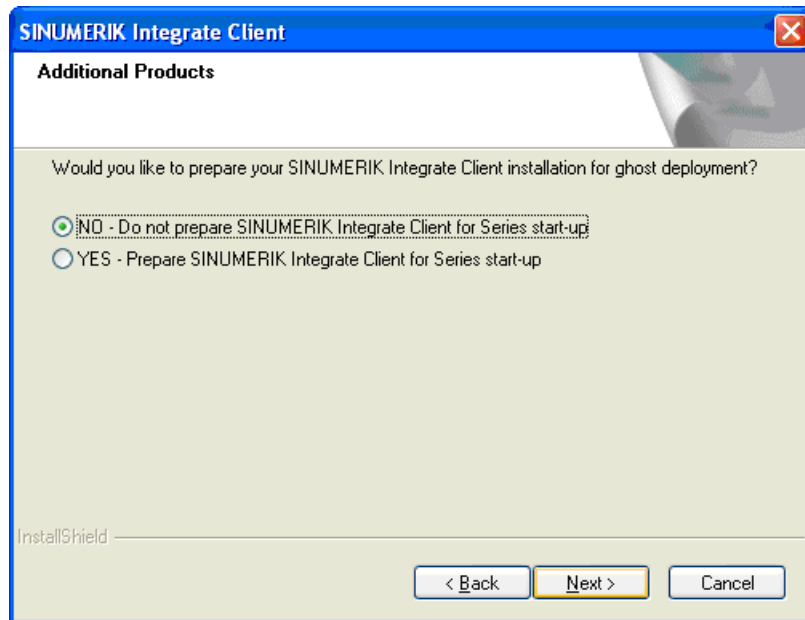
Click "Next >".



4.3 Machine with HMI-Advanced

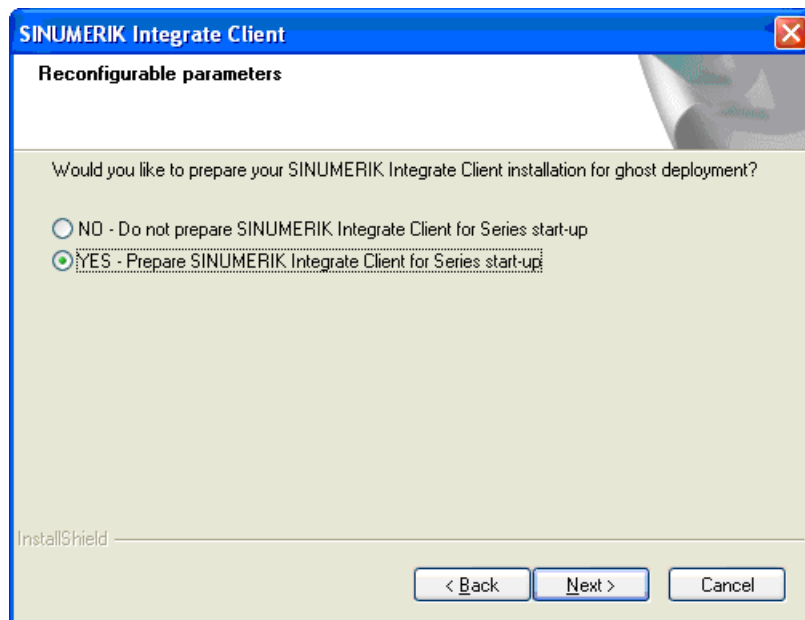
7. You will then receive a prompt whether you wish to make changes to the existing client installation.
 - Activate "NO - Do not prepare SINUMERIK Integrate client for series start-up" if you want to keep the existing installation.

Click "Next >" to start the installation.



-OR-

Select "YES - Prepare SINUMERIK Integrate Client for Series start-up" if you wish to change the parameter settings.
Click "Next >" to confirm the selection.



8. You obtain a confirmation prompt as to whether you wish to delete the directories that have been created.

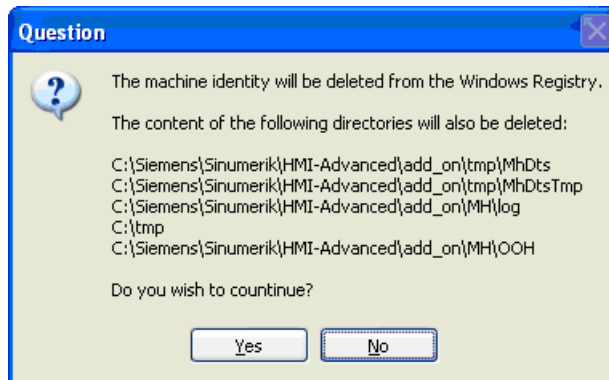
The directories are deleted if you confirm the prompt with "Yes".

You must now configure the parameters to address your requirements.

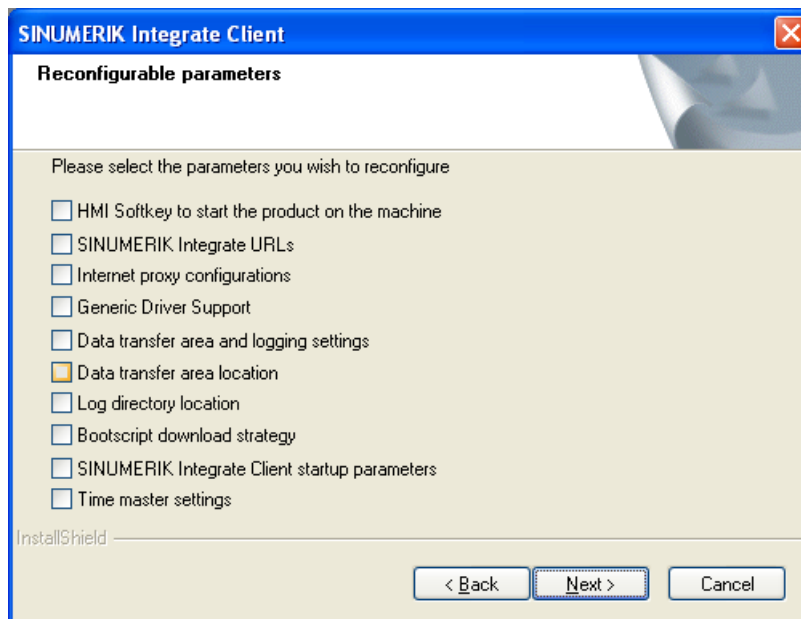
For the next steps, see step ⑨.

If you confirm the prompt with "No", the directories already installed are retained.

The installation is started and the procedure is displayed on a progress bar.



9. The "Reconfigurable Parameters" window opens. A precise description of the configuration options can be found in Chapter Configuring user-specific parameters - expert mode (Page 65)



4.3 Machine with HMI-Advanced

10. The "SINUMERIK Integrate URL Configuration" window opens.

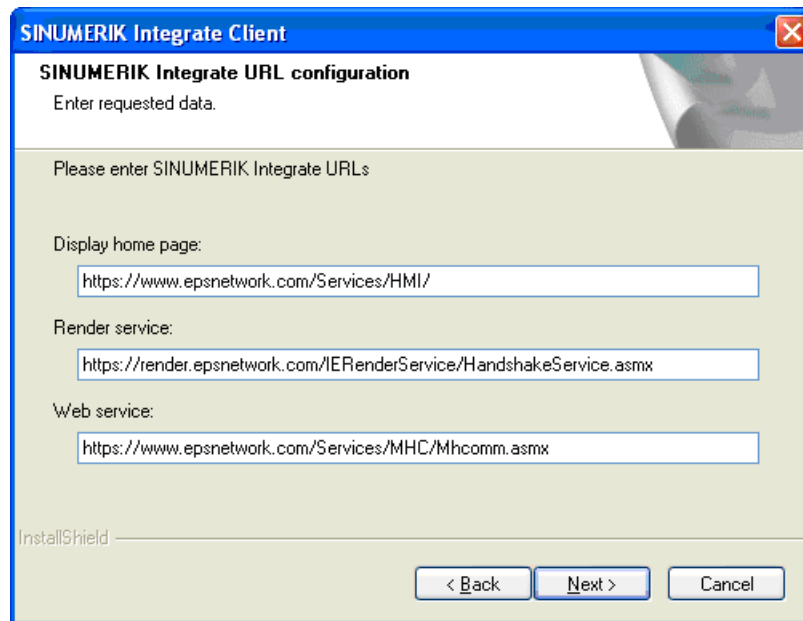
Define the URLs of SINUMERIK Integrate.

For the address data, a distinction is made between a connection to the Siemens server or a connection to a local server within a company network.

If both the applications "Access MyMachine for HMI-Advanced" and "Access MyMachine Service Client" are selected in the "Additional Products" window, then enter the following URLs:

- Cloud mode (ASP) - Establish a connection to the local server:
Display home page: <https://www.epsnetwork.com/services/HMI/>
Render service: <https://render.epsnetwork.com/IERenderService/HandshakeService.aspx>
Web service: <https://www.epsnetwork.com/Services/MHC/MHComm.aspx>

Click "Next >" to continue.



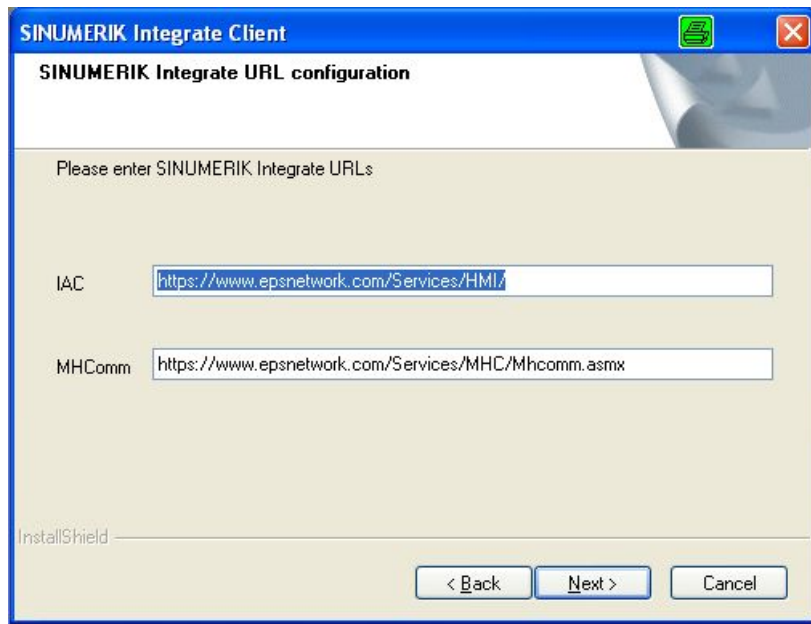
- OR -

If, in the "Additional Products" window, only "Access MyMachine Service Client" is selected, enter the URLs "IAC" and "MHComm" depending on your server:

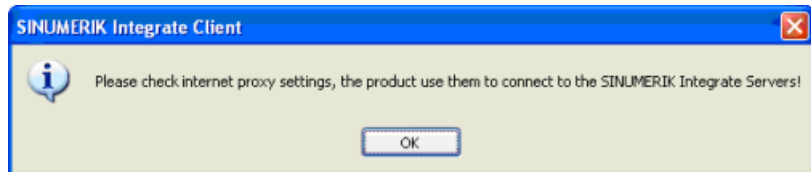
The window "SINUMERIK Integrate URL configuration" is opened.

- Cloud mode (ASP) - Establish a connection to the Siemens server:
IAC: <https://www.epsnetwork.com/services/HMI/>
IAC: MHComm: <https://www.epsnetwork.com/Services/MHC/MHComm.aspx>
- Standalone (intranet) - Establish a connection to the local server:
IAC: http://<servername or ip>/mcis_if/HMI
MHComm: http://<servername or ip>/mcis_if/MHComm/MHComm.aspx
IAC: <https://www.epsnetwork.com/services/HMI/>
IAC: MHComm: <https://www.epsnetwork.com/Services/MHC/MHComm.aspx>

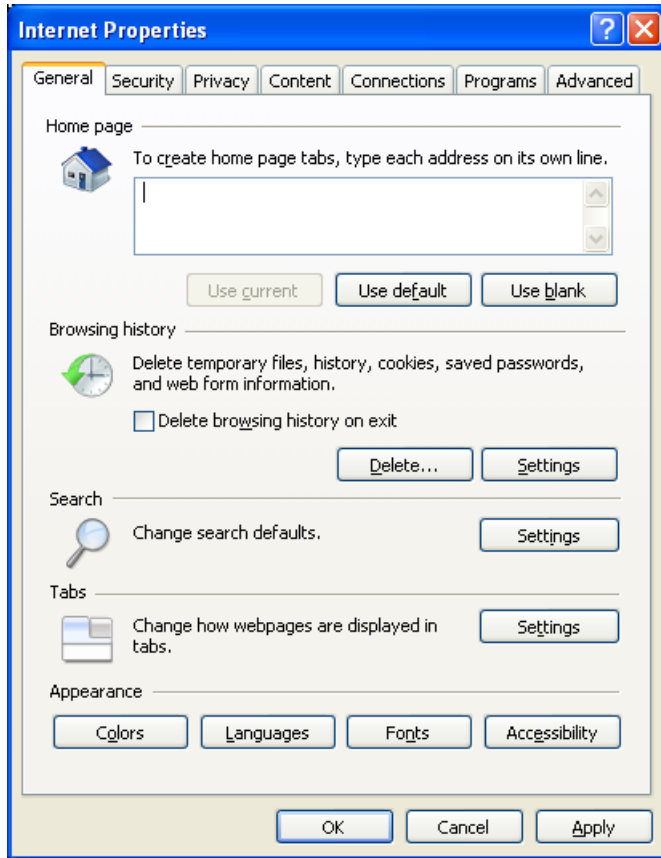
Click "Next >" to continue.



11. In the following prompt, you are requested to check the address settings. Confirm the prompt to check the Internet settings with "OK".



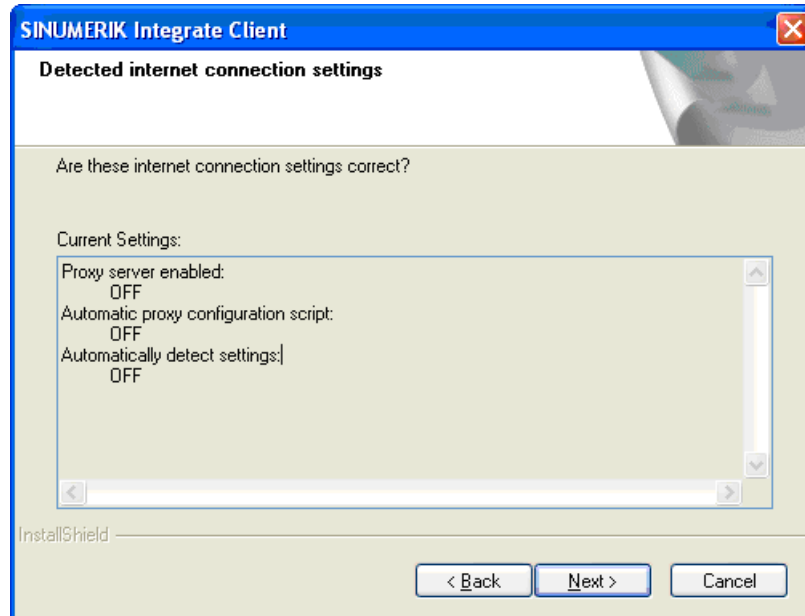
- 12. The "Internet Properties" window opens.
Enter the Internet connection and click the "OK" button.



13. The "Detected internet connection settings" message window opens and shows the actual settings.

Click "< Back" to correct the settings.

Click "Next >" to continue.

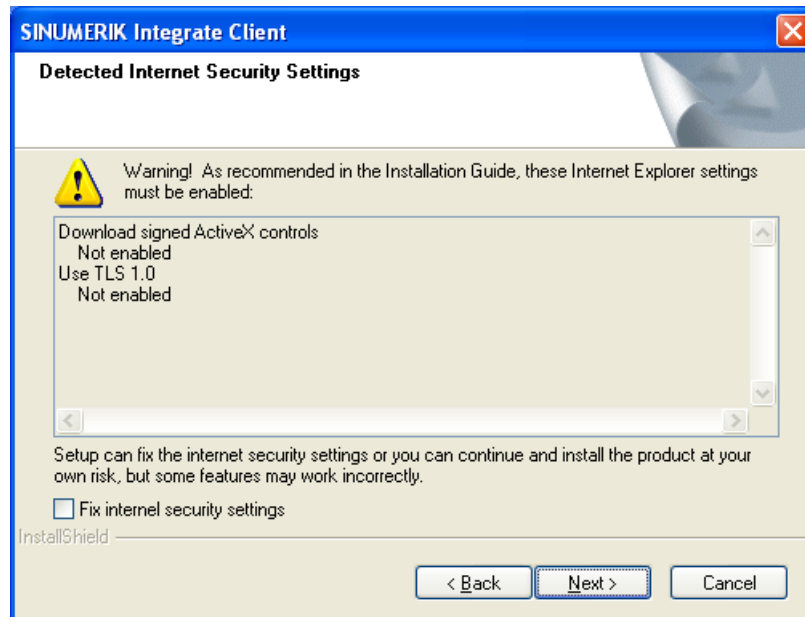


14. The settings are subject to an additional check, and in the "Detected Internet Security Settings" window you obtain an appropriate message.

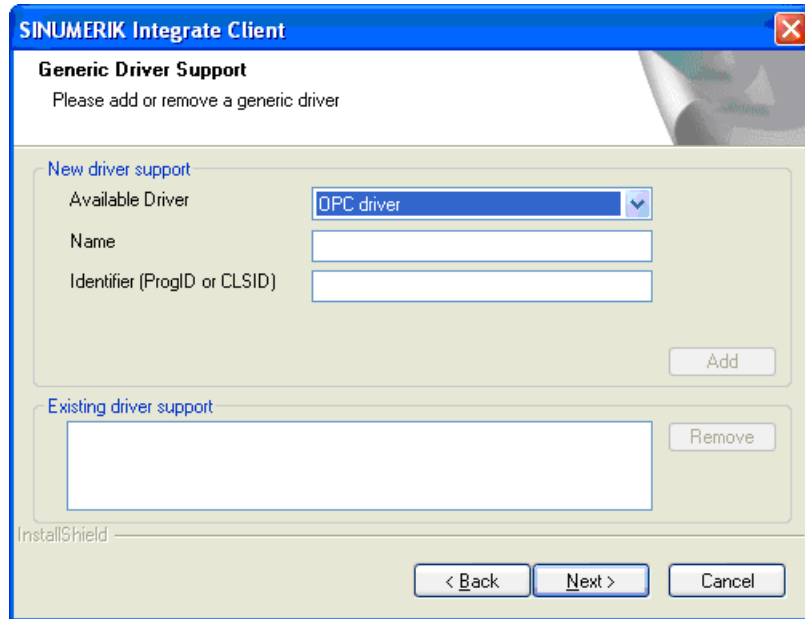
Click "< Back" to change the settings in the Internet Explorer.

- OR -

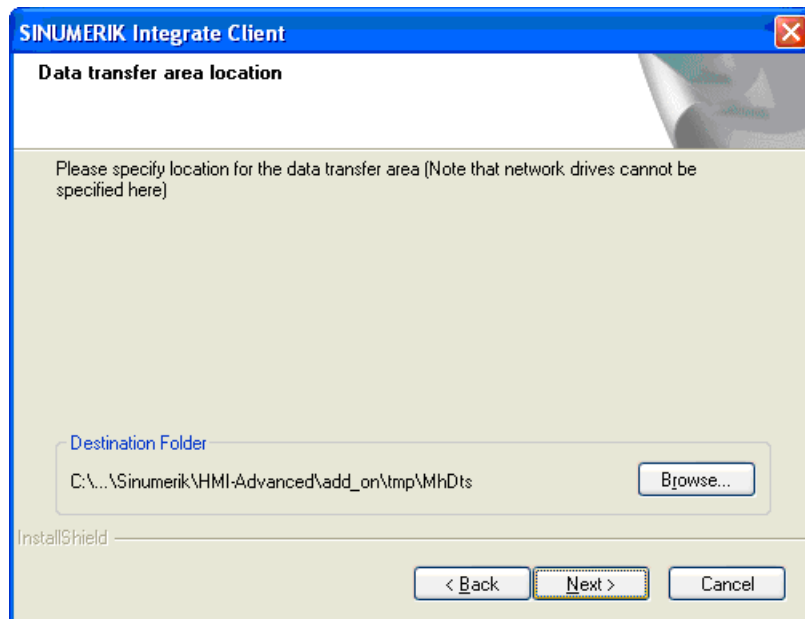
Click "Next >" to continue.



15. The "Generic Driver Support" window opens. Additional devices can be integrated here. Select "OPC driver" and click "Next >".



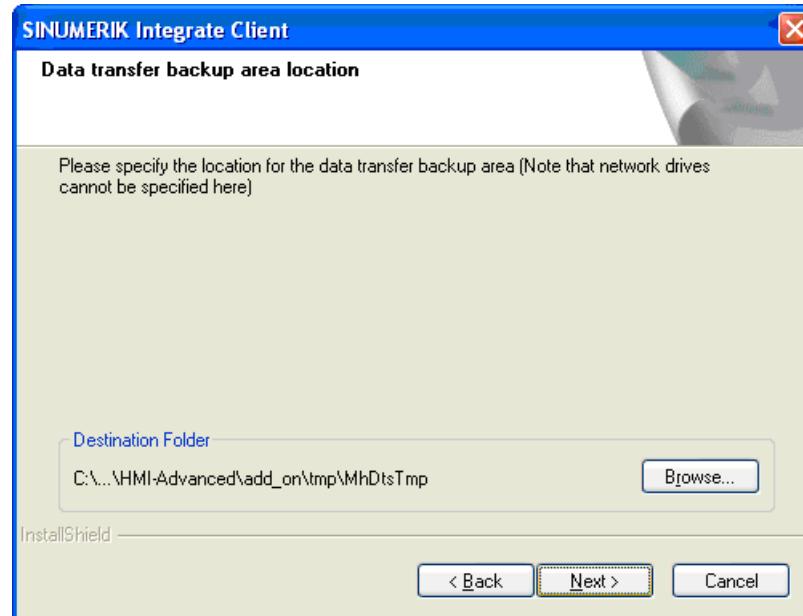
16. The "Data Transfer Backup Area Location" window opens and shows the archive directory for the transfer data. Click "Browse..." if you want to create another directory. Click "Next >" to continue.



17. The "Data Transfer Area Location" window opens and shows the archive directory for the temporary data.

Click "Browse..." if you want to create another directory.

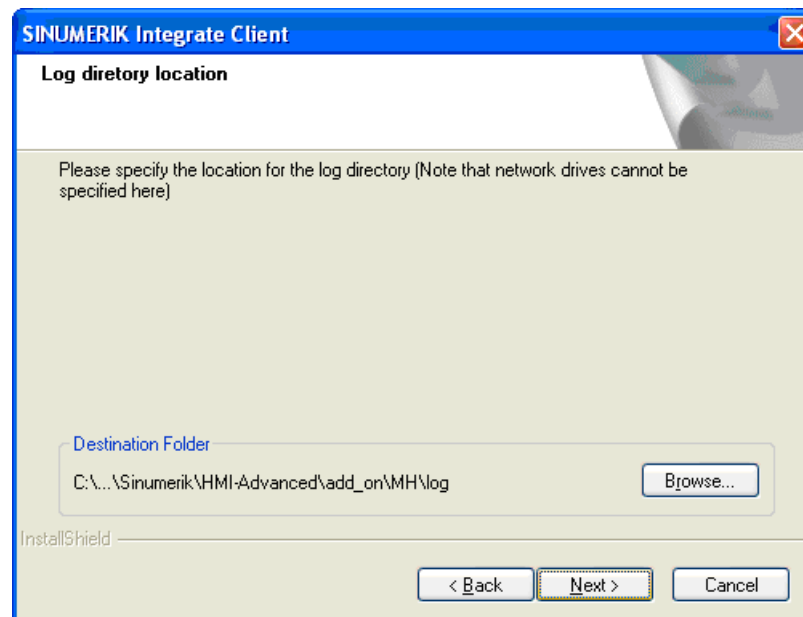
Click "Next >" to continue.



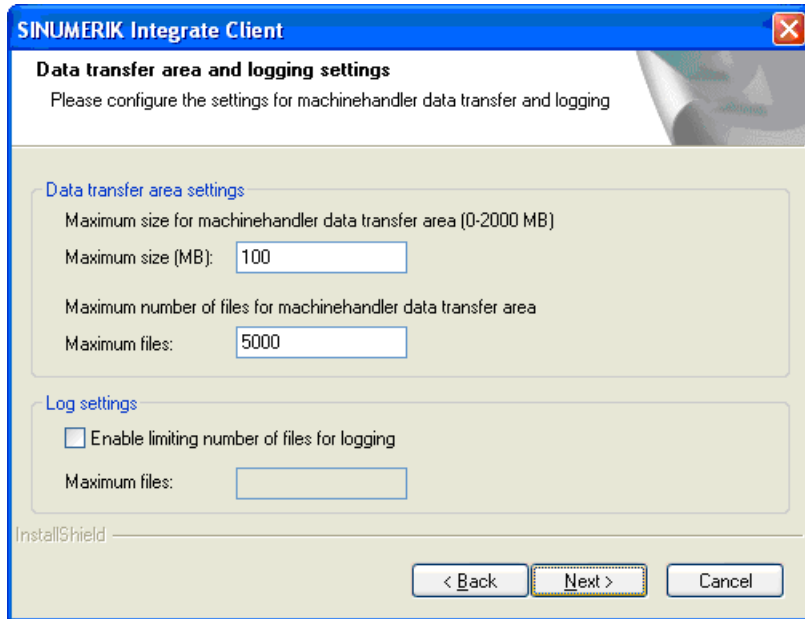
18. The "Data Transfer Area Location" window opens and shows the archive directory for the log data.

Click "Browse..." if you wish to create another directory.

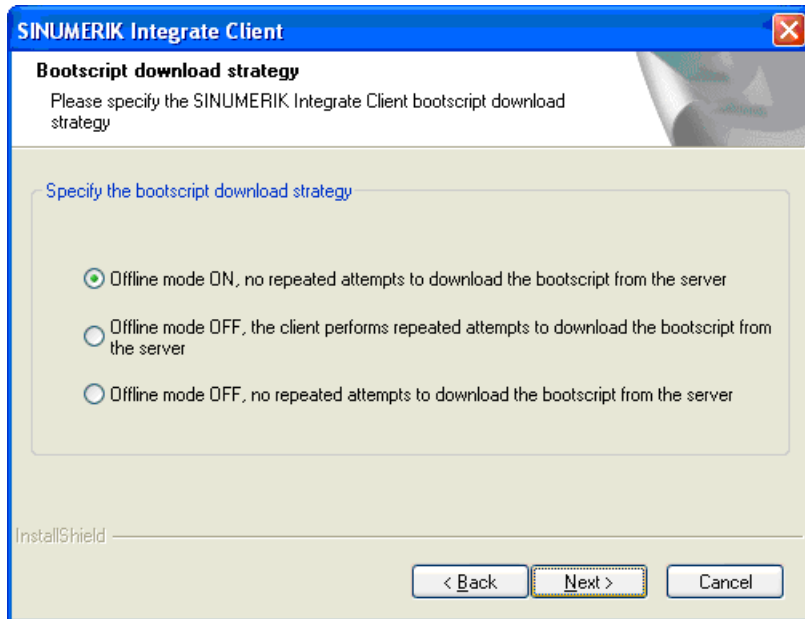
Click "Next >" to continue.



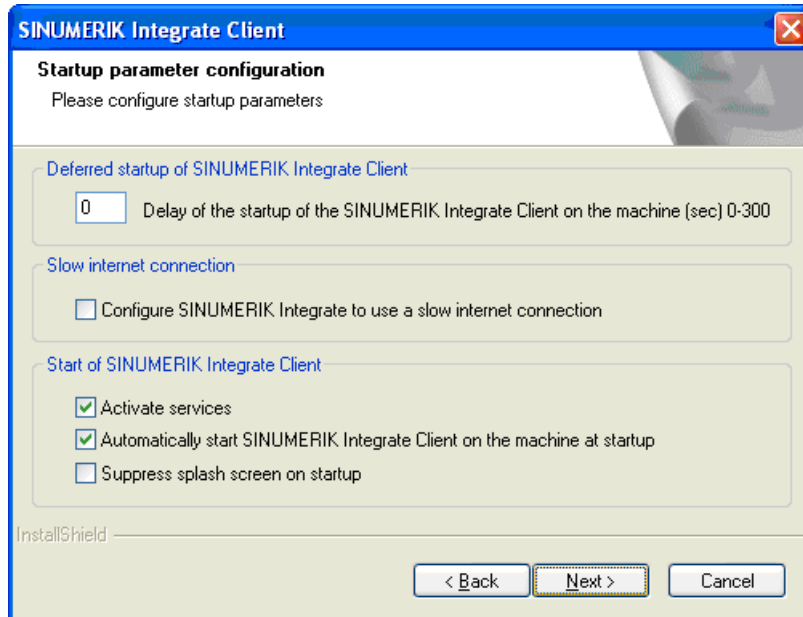
- 19. The "Data Transfer Area and Logging Settings" window opens. Here you define the data storage during an Internet connection fault. Enter the maximum data volume for the transfer data and click "Next >".



- 20. The "Boot Script Download Strategy" window opens. You can select one of three different strategies for the download. Click "Next >".



21. The "Startup Parameter Configuration" window opens.
Select the start properties of the client.
Click "Next >".



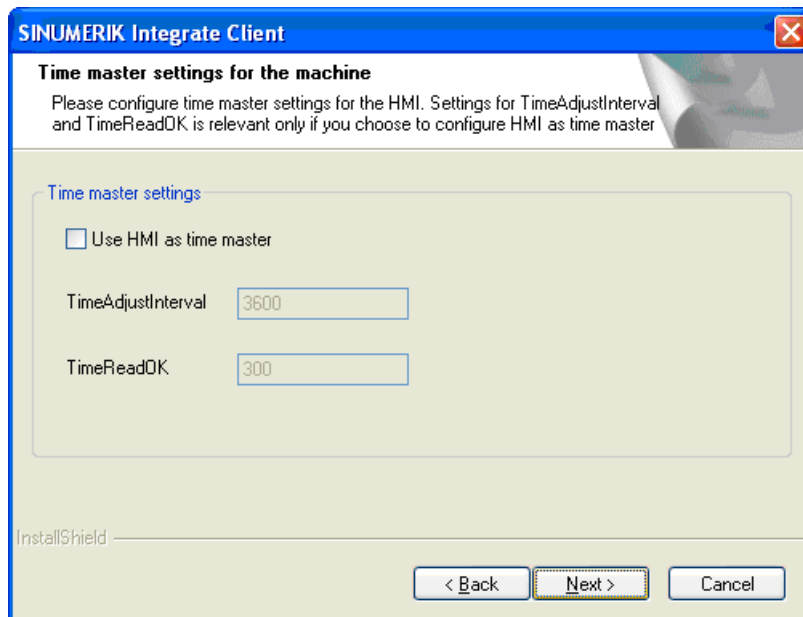
The screenshot shows the "SINUMERIK Integrate Client" window with the "Startup parameter configuration" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Startup parameter configuration" with the instruction "Please configure startup parameters".

The configuration is divided into three sections:

- Deferred startup of SINUMERIK Integrate Client:** A text input field contains "0" and is followed by the text "Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300".
- Slow internet connection:** A checkbox labeled "Configure SINUMERIK Integrate to use a slow internet connection" is currently unchecked.
- Start of SINUMERIK Integrate Client:** Three checkboxes are present: "Activate services" (checked), "Automatically start SINUMERIK Integrate Client on the machine at startup" (checked), and "Suppress splash screen on startup" (unchecked).

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

22. The "Time Master Settings for the Machine" window opens. You can change the time synchronization between PLC and HMI.
Active the "Use HMI as time master" checkbox to activate time synchronization.
Click "Next >".



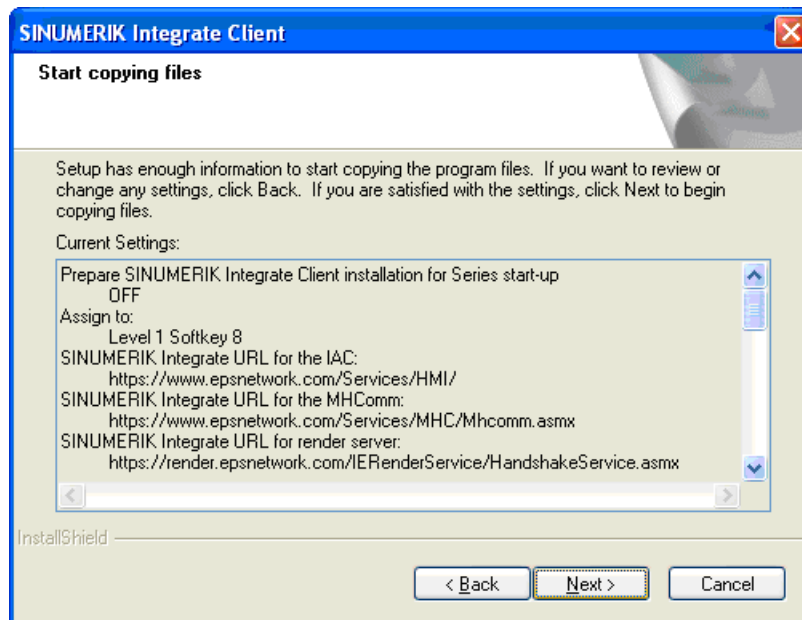
The screenshot shows the "SINUMERIK Integrate Client" window with the "Time master settings for the machine" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Time master settings for the machine" with the instruction "Please configure time master settings for the HMI. Settings for TimeAdjustInterval and TimeReadOK is relevant only if you choose to configure HMI as time master".

The configuration is divided into one section:

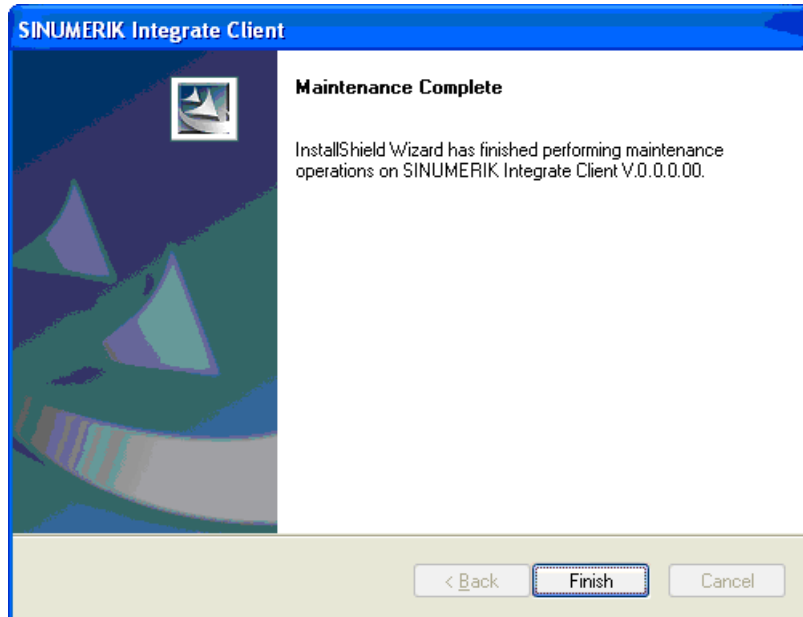
- Time master settings:** A checkbox labeled "Use HMI as time master" is currently unchecked. Below it are two text input fields: "TimeAdjustInterval" with the value "3600" and "TimeReadOK" with the value "300".

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

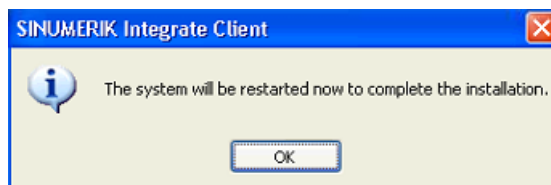
23. The "Start Copying Files" window opens and shows an overview of the settings that you have made.
Click "Next >" to start the installation.



24. The "Maintenance Complete" window opens.
Click "Finish" to complete the installation.



25. You are prompted to restart the system after the installation has been completed.
To do this, click "OK".



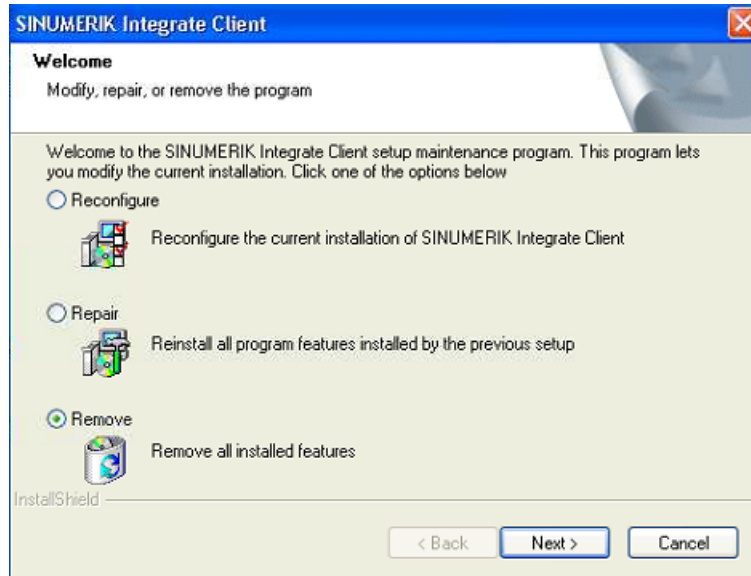
4.3.4 Uninstalling client setup

You remove an existing client setup with the installed applications using the setup file "ePS_Client_AT.exe".

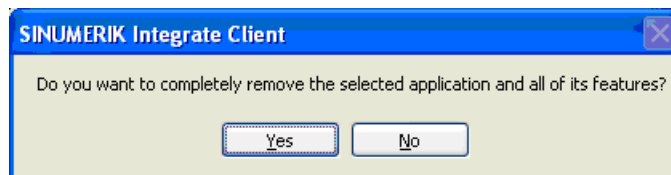
Procedure

1. Start the PCU in the Windows service mode.
2. Open the installation directory.
3. Start the "ePS_Client_AT.exe" setup file with a double click.

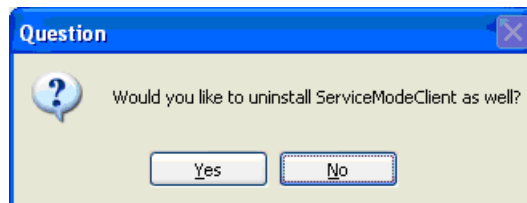
- The "Welcome" window opens.
The default installation language is English.
Select the "Remove" function to remove the client setup with the installed applications.
Click on "Next >".



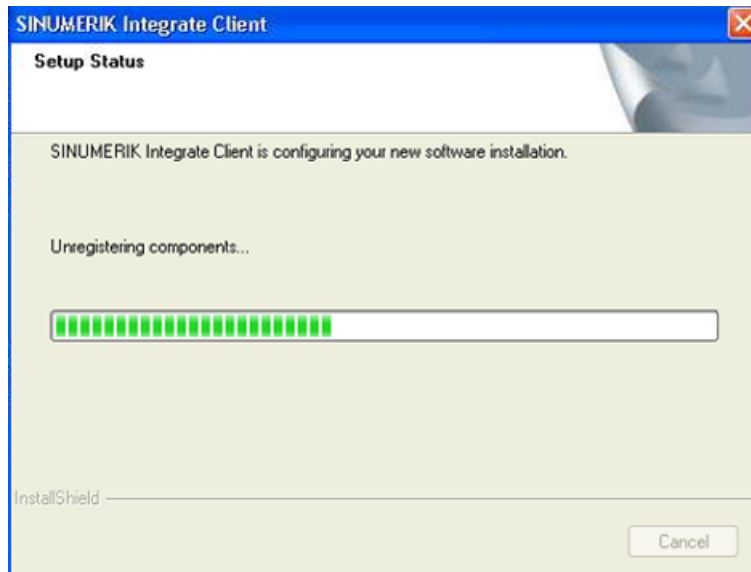
- A confirmation prompt appears.
Confirm the message with "OK" to start the uninstallation.



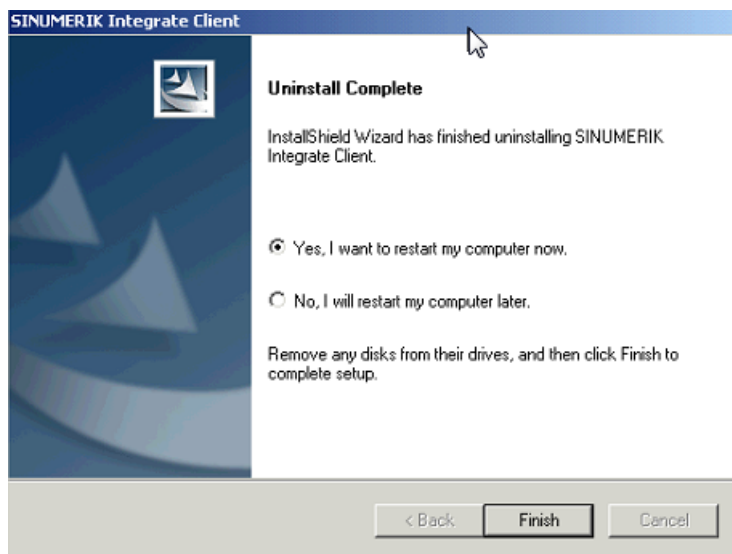
- You obtain an additional confirmation prompt as to whether you wish to uninstall the Service Mode Client.
Click "Yes" to start this operation.



7. The uninstallation is started and the procedure is displayed on a progress indicator.



8. Select whether you want to perform a restart immediately after completion of the uninstallation or sometime later.
Click "Finish" to complete the uninstallation.



4.4 Machine PC

4.4.1 Configuring SINUMERIK Integrate Client SE (IPC)

If the SINUMERIK Integrate client has already been installed, the system identifies the scope of the installation. Compared to a new installation, several installation steps are skipped.

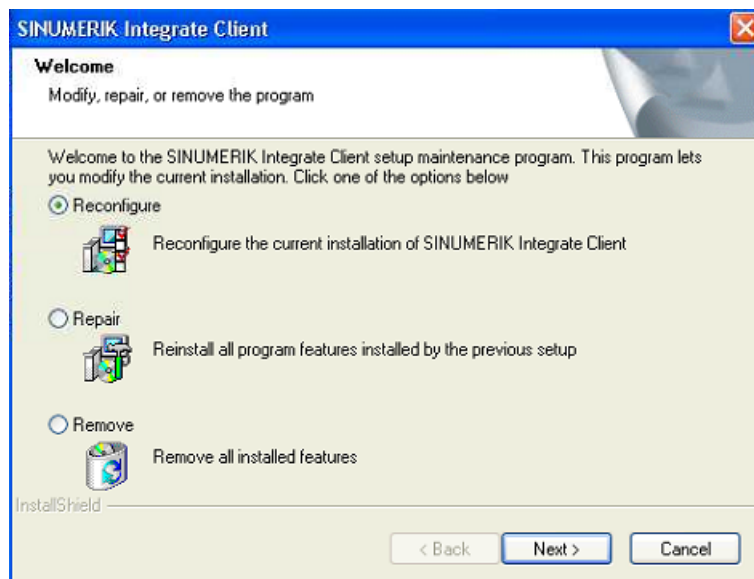
The procedure is subsequently described if the SINUMERIK Integrate client setup was already installed with another application, e.g. AMC, and you wish to add the Access MyMachine/Ethernet (AMM/E Service Client SE) application.

If you are installing for the first time, see Section: Installing SINUMERIK Integrate client (IPC) (Page 93).

Procedure

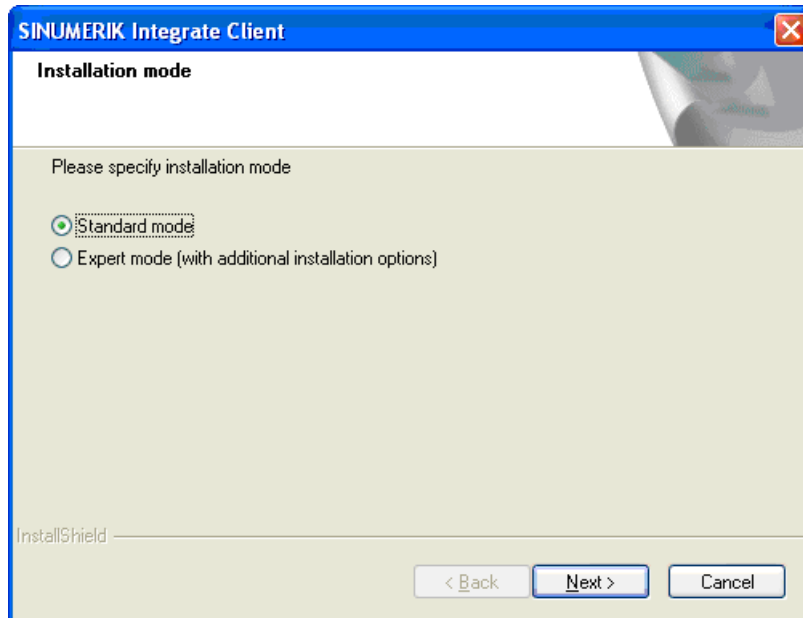
1. Start the IPC in Windows service mode.
2. Open the installation directory.
3. Start the "setup.exe" setup file with a double click.
English is the default installation language.
4. The "Welcome" window opens and offers you the following options:
 - Changing the client setup
 - Repairing the client setup
 - Removing the client setup

Select "Reconfigure" and click "Next >".



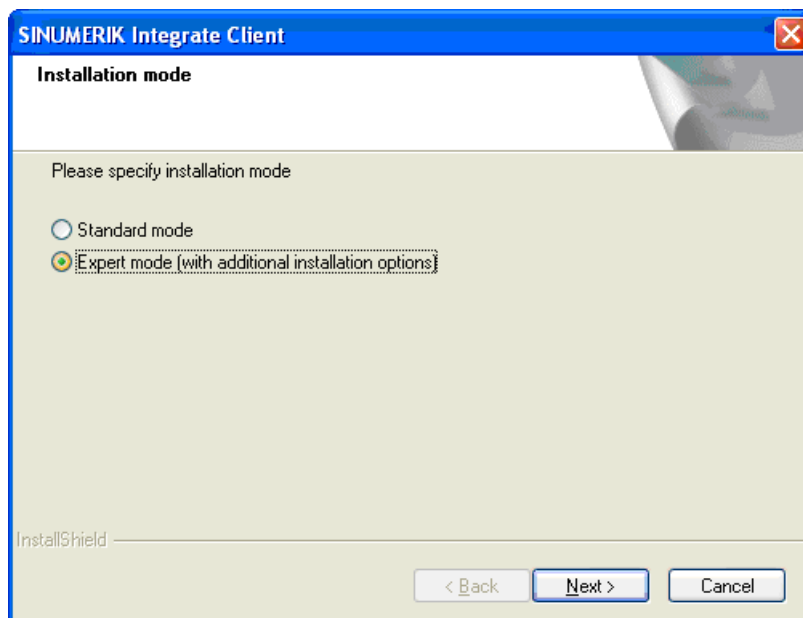
5. You then have the option of selecting between two installation types:
- Standard mode
The preconfigured settings are used.
 - Expert mode
The preconfigured settings can be changed to meet individual requirements.

Select "Standard mode" and click "Next >".



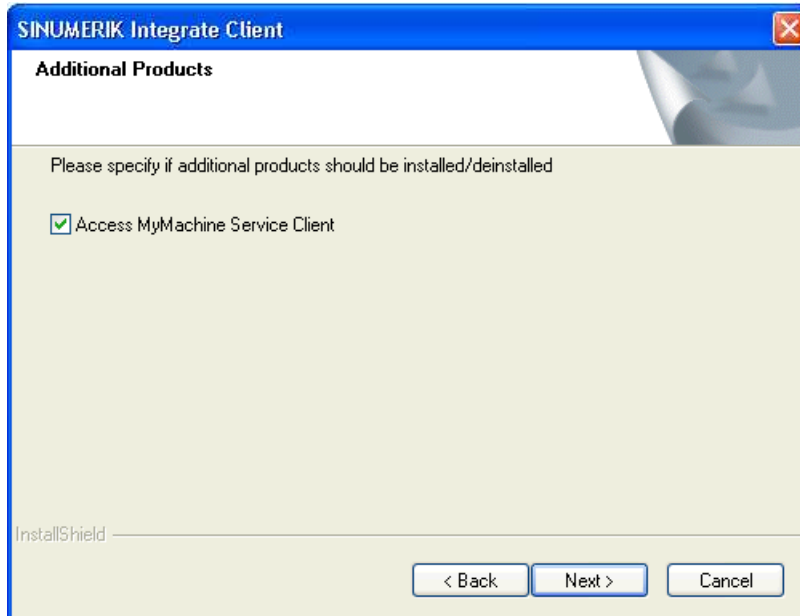
- OR -

Select "Expert mode (with additional installation options)" and click "Next >".



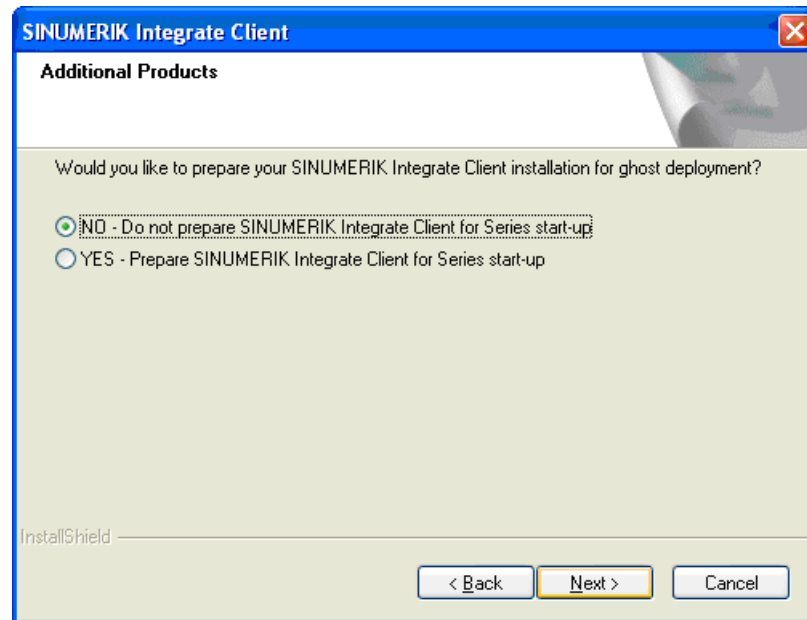
4.4 Machine PC

- The "Additional Products" window opens if you use Windows XP SP3 or higher versions. Select "Access MyMachine Service Client" to install the service client necessary for remote access. Click "Next >".



7. You obtain a confirmation prompt as to whether you wish to make changes to the existing client installation.
 - Activate "NO - Do not prepare SINUMERIK Integrate Client for Series start-up" if you want to keep the existing installation.

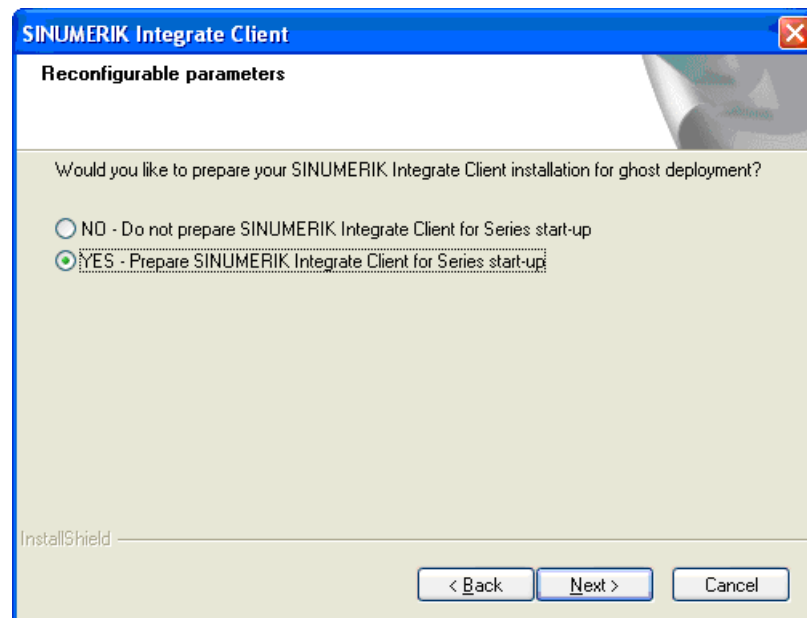
Click "Next >" to start the installation.



-OR-

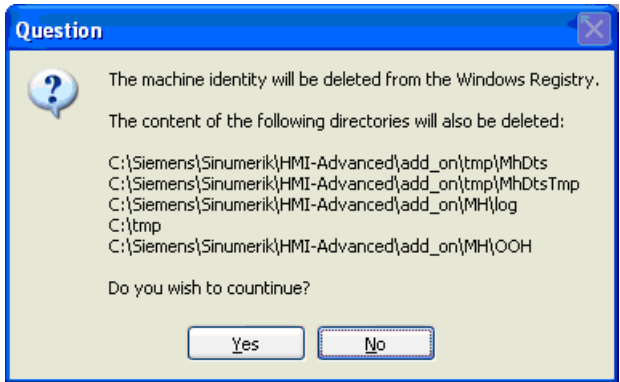
Select "YES - Prepare SINUMERIK Integrate Client for Series start-up" if you wish to change the parameter settings.

Click "Next >" to confirm the selection.

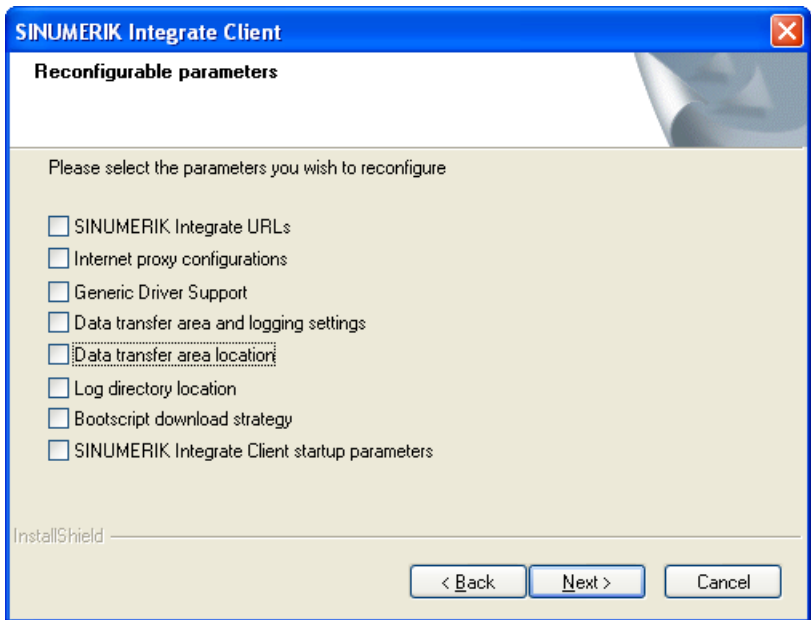


4.4 Machine PC

- 8. You obtain a confirmation prompt as to whether you wish to delete the directories that have been created.
The directories are deleted if you confirm the prompt with "Yes".
You must now configure the parameters to address your requirements. For the next steps, see step ⑥.
If you confirm the prompt with "No", the directories already installed are retained.
The installation is started and the procedure is displayed on a progress bar.



- 9. The "Reconfigurable Parameters" window opens.
A precise description of the configuration options can be found in Section: Configuring user-specific parameters - expert mode (Page 65).



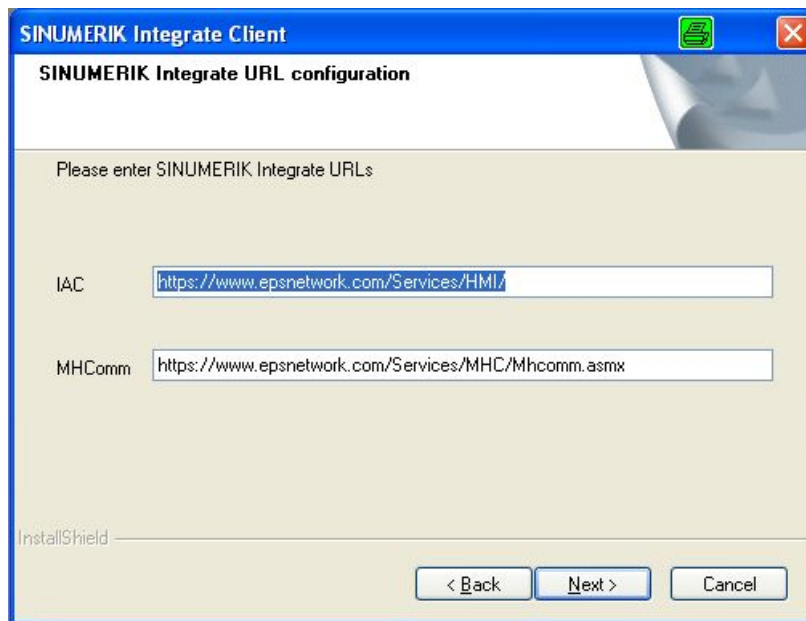
10. The "SINUMERIK Integrate URL Configuration" window opens.

You define the URLs of SINUMERIK Integrate here.

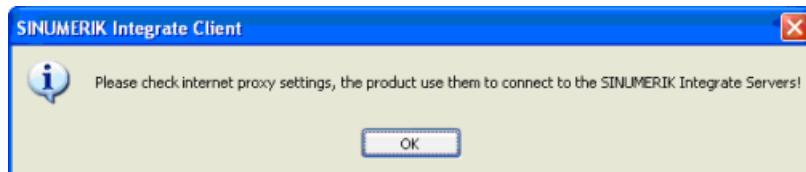
Enter the following URLs "IAC" and "MHComm" depending on your server.

- Cloud mode (ASP) - Establish a connection to the Siemens server:
IAC: <https://www.epsnetwork.com/services/HMI/>
IAC: MHComm: <https://www.epsnetwork.com/Services/MHC/MHComm.asmx>
- Standalone (intranet) - Establish a connection to the local server:
IAC: http://<servername or ip>/mcis_if/HMI
MHComm: http://<servername or ip>/mcis_if/MHComm/MHComm.asmx

Click "Next >" to continue.

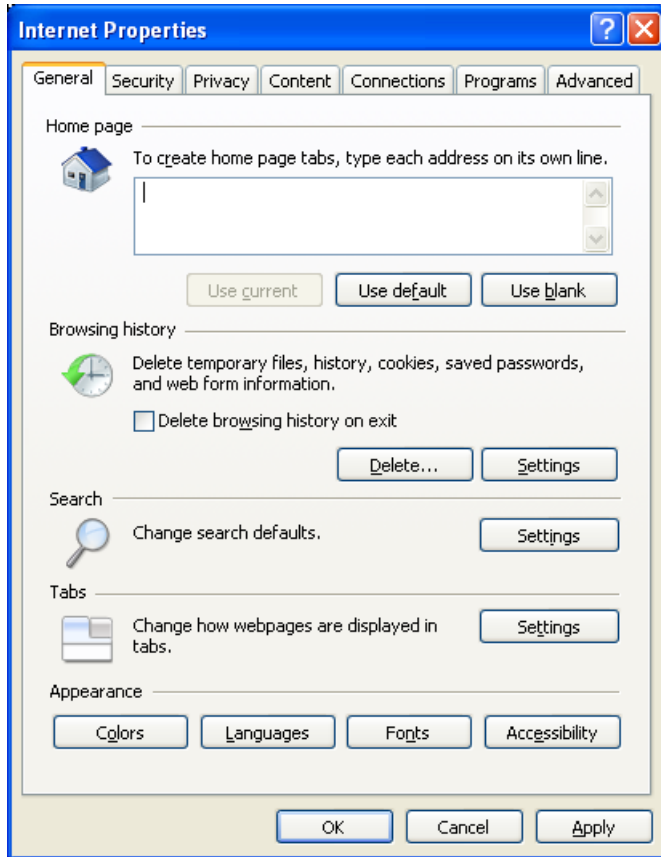


11. In the following prompt, you are requested to check the address settings. Confirm the prompt to check the Internet settings with "OK".

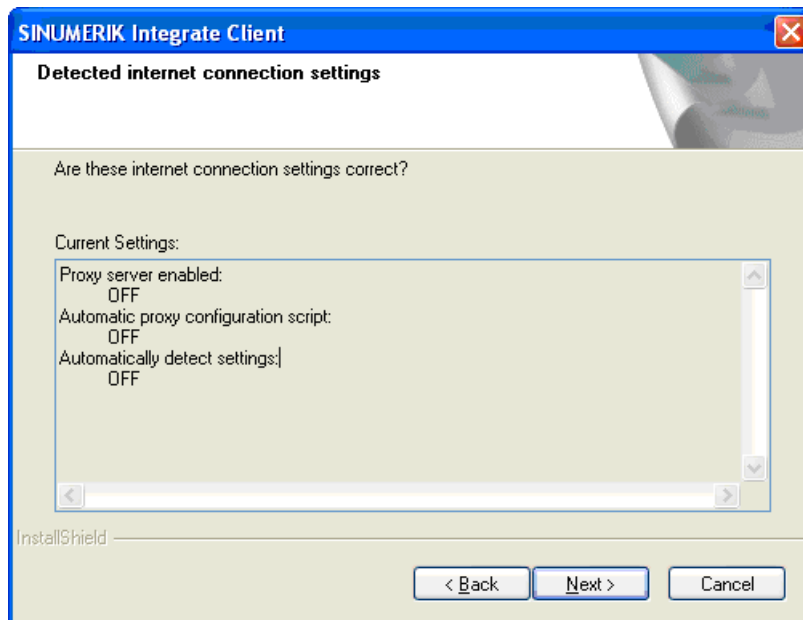


4.4 Machine PC

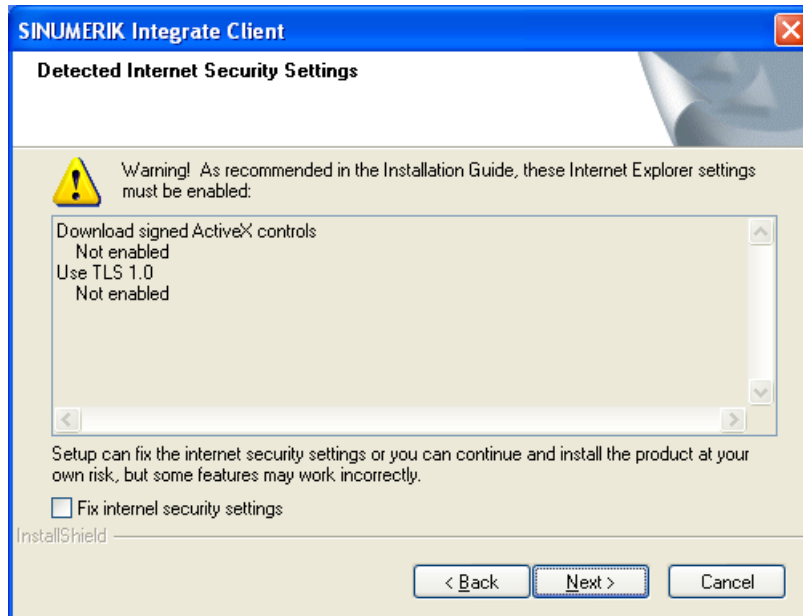
- 12. The "Internet Properties" window opens.
Enter the Internet connection.
Use the connection in your company network that has already been set up and click "OK".



13. The "Detected Internet Connection Settings" window opens and shows the actual settings. Click "< Back" to correct the settings. Click "Next >" to continue.

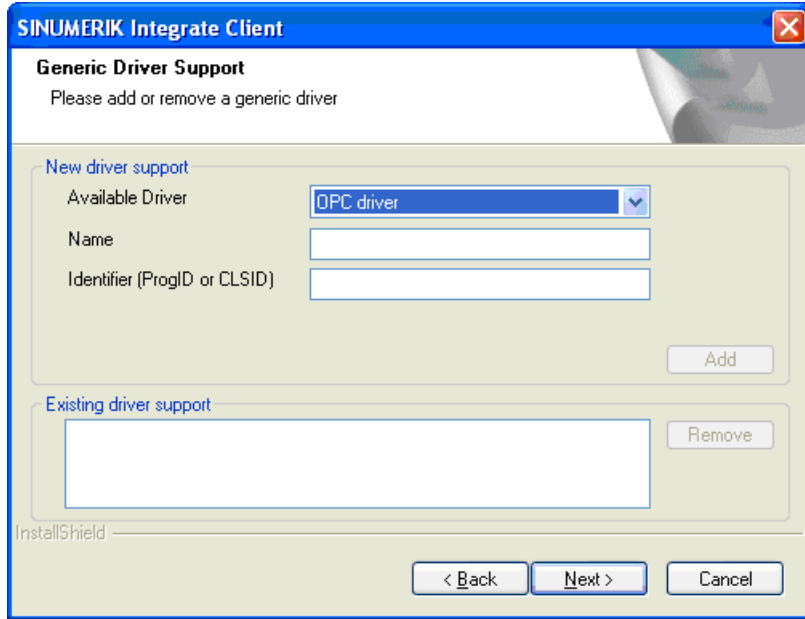


14. The settings are subject to an additional check, and an appropriate message is displayed in the "Detected Internet Security Settings" window. Click "< Back" to change the settings in the Internet Explorer. - OR - Click "Next >" to continue.

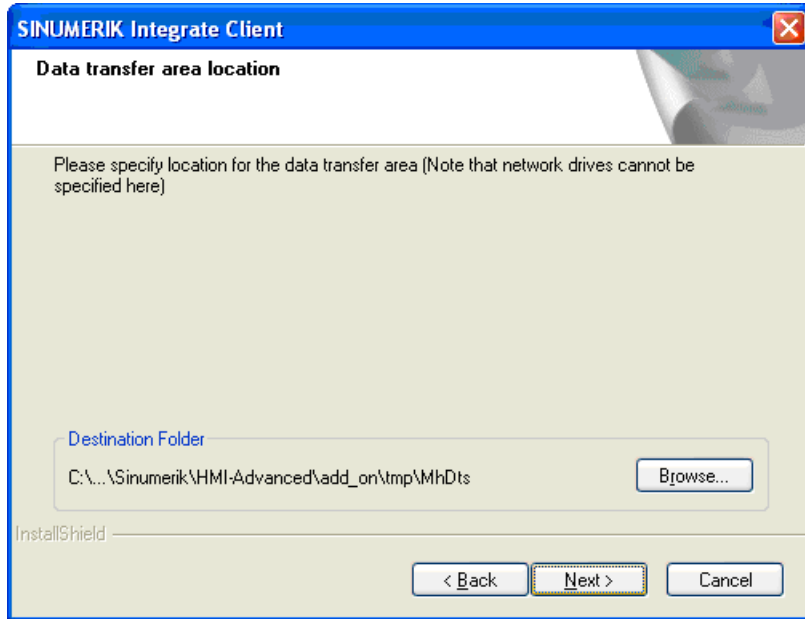


4.4 Machine PC

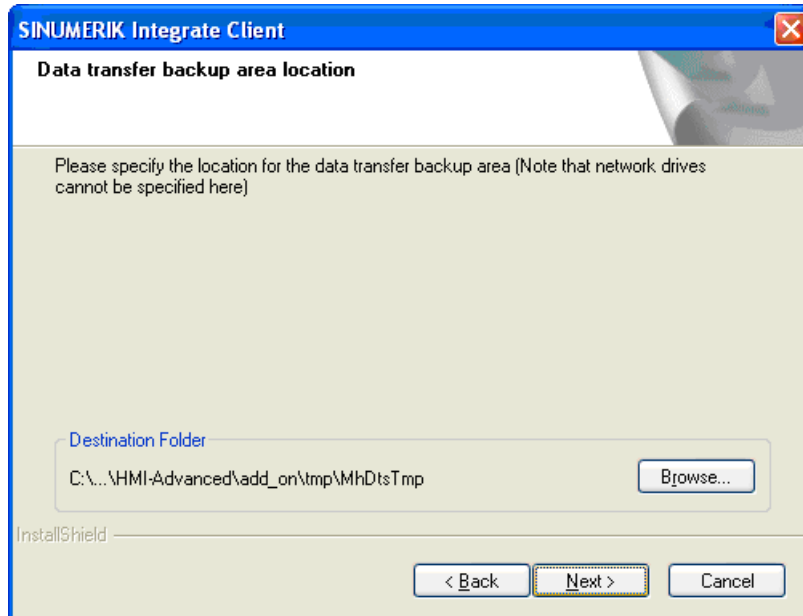
- 15. The "Generic Driver Support" window opens. Additional devices can be integrated here. Select "OPC driver" and click "Next >".



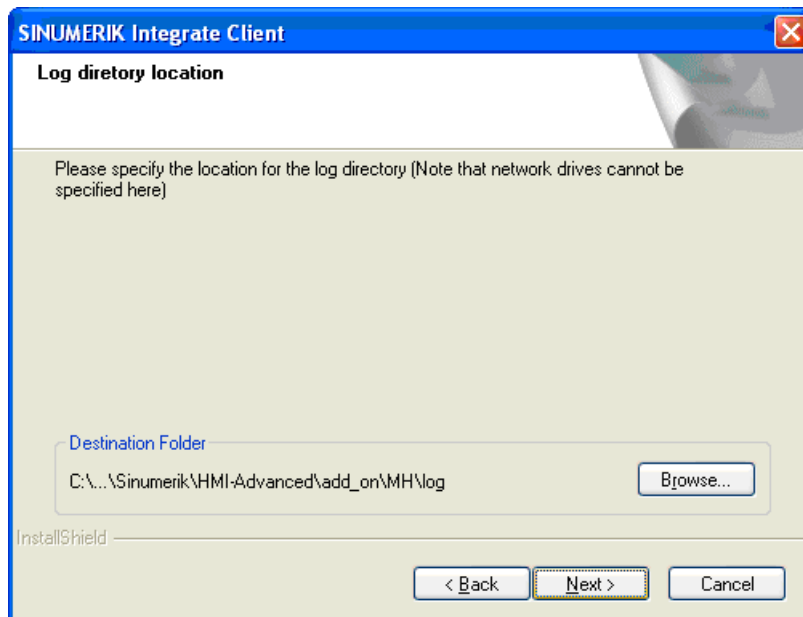
- 16. The "Data Transfer Backup Area Location" window opens and shows the archive directory for the transfer data. Click "Browse..." if you want to create another directory. Click "Next >" to continue.



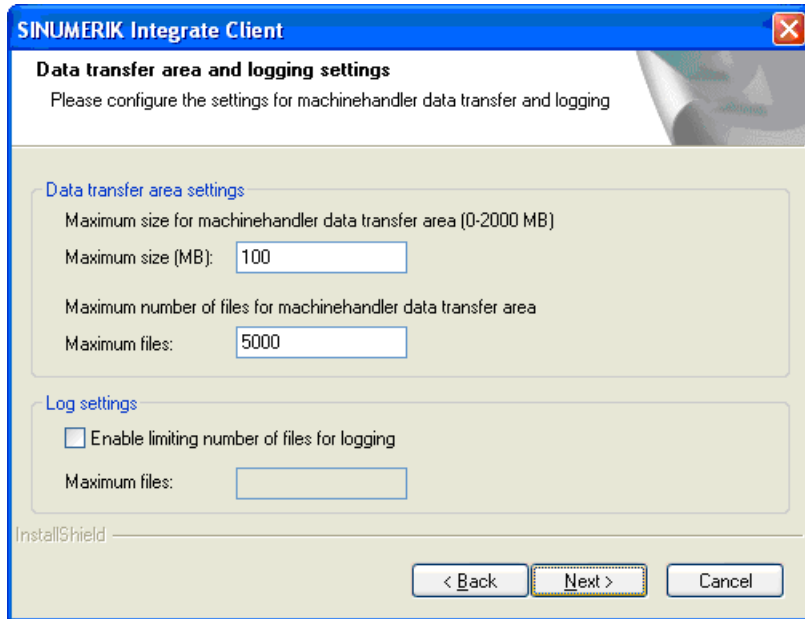
17. The "Data Transfer Backup Area Location" window opens and shows the archive directory for the temporary data.
Click "Browse..." if you want to create another directory.
Click "Next >" to continue.



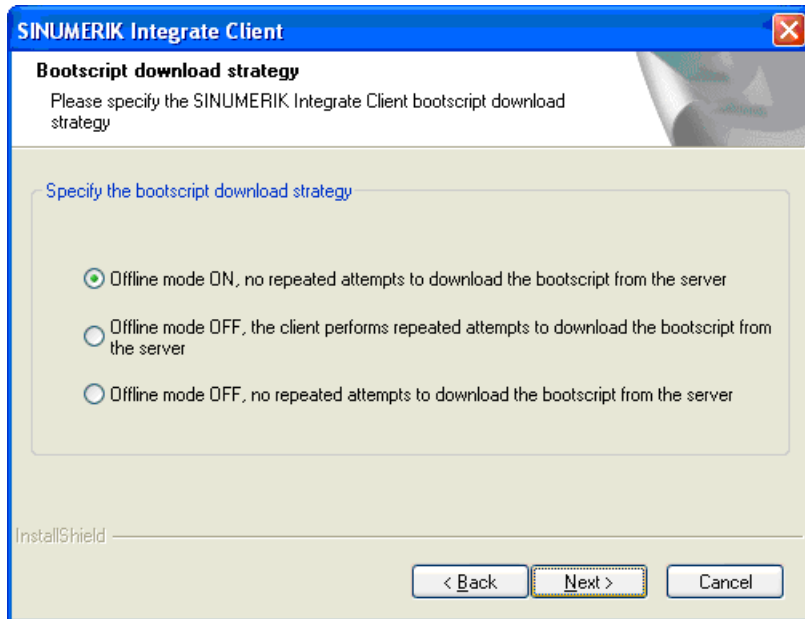
18. The "Log Directory Location" window opens and shows the archive directory for the log data.
Click "Browse..." if you want to create another directory.
Click "Next >" to continue.



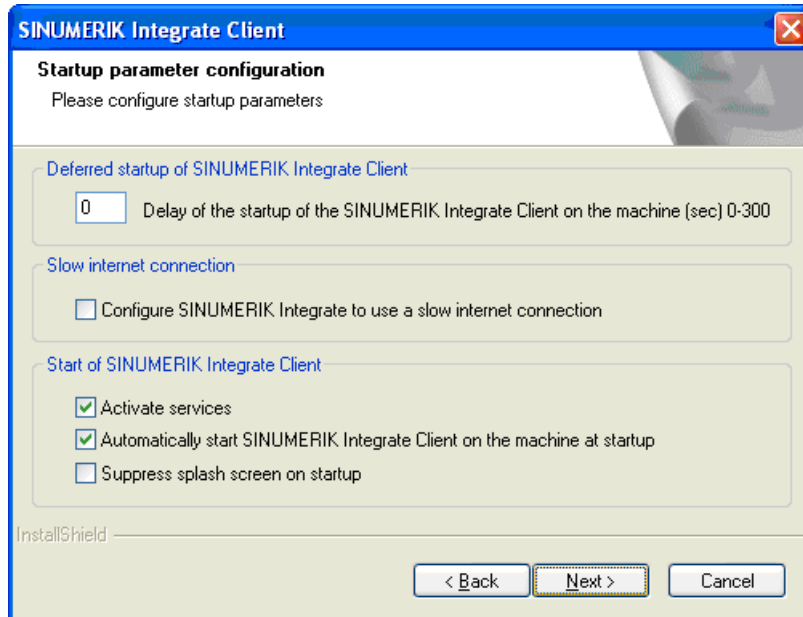
- 19. The "Data Transfer Area and Logging Settings" window opens. Here you define the data storage during an Internet connection fault. Enter the maximum data volume for the transfer data and click "Next >".



- 20. The "Boot Script Download Strategy" window opens. You can select one of three different strategies for the download. Click "Next >".



21. The "Startup Parameter Configuration" window opens.
Select the start properties of the client.
Click "Next >".



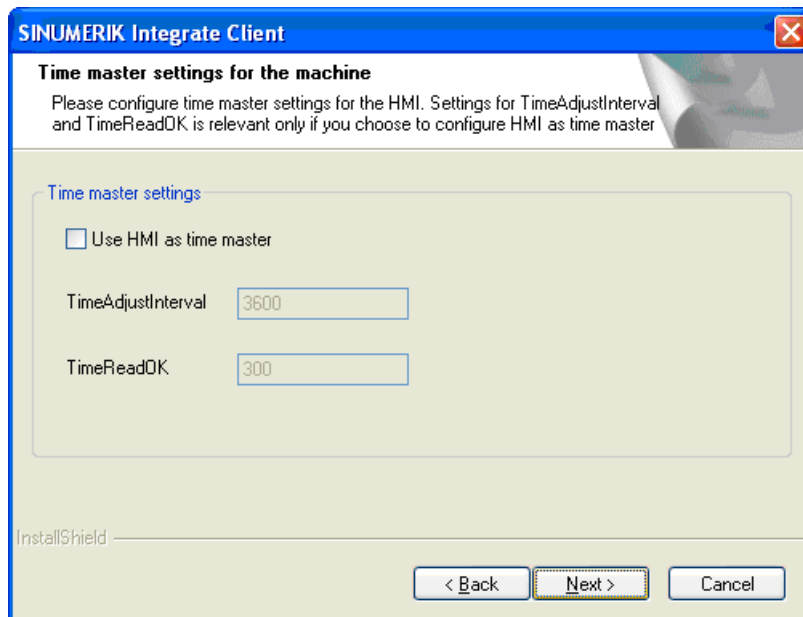
The screenshot shows the "SINUMERIK Integrate Client" window with the "Startup parameter configuration" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Startup parameter configuration" with the instruction "Please configure startup parameters".

The configuration is divided into three sections:

- Deferred startup of SINUMERIK Integrate Client:** A text input field contains "0" with the label "Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300".
- Slow internet connection:** A checkbox labeled "Configure SINUMERIK Integrate to use a slow internet connection" is currently unchecked.
- Start of SINUMERIK Integrate Client:** Three checkboxes are present: "Activate services" (checked), "Automatically start SINUMERIK Integrate Client on the machine at startup" (checked), and "Suppress splash screen on startup" (unchecked).

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

22. The "Time Master Settings for the Machine" window opens.
You can change the time synchronization between the PLC and HMI.
Activate the "Use HMI as time master" checkbox to activate the time synchronization.
Click "Next >".



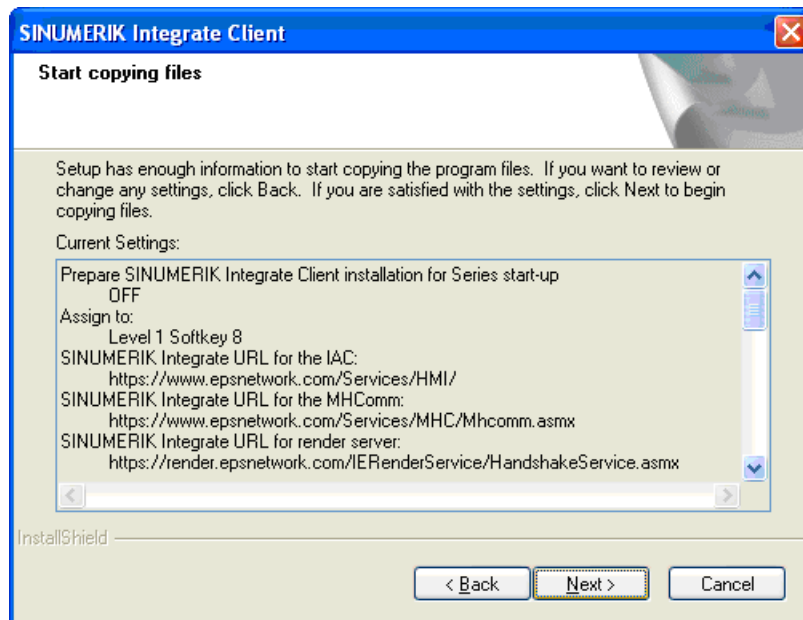
The screenshot shows the "SINUMERIK Integrate Client" window with the "Time master settings for the machine" tab selected. The window title is "SINUMERIK Integrate Client" and it has a close button (X) in the top right corner. The main heading is "Time master settings for the machine" with the instruction "Please configure time master settings for the HMI. Settings for TimeAdjustInterval and TimeReadOK is relevant only if you choose to configure HMI as time master".

The configuration is divided into one section:

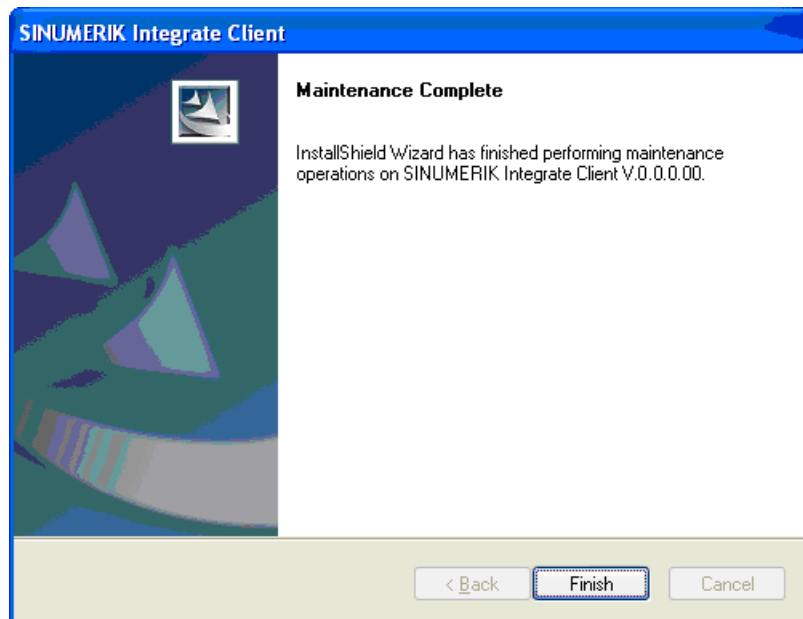
- Time master settings:** A checkbox labeled "Use HMI as time master" is currently unchecked. Below it are two text input fields: "TimeAdjustInterval" with the value "3600" and "TimeReadOK" with the value "300".

At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a yellow border), and "Cancel".

23. The "Start Copying Files" window opens and shows an overview of the settings that you have made.
Click "Next >" to start the installation.



24. The "Maintenance Complete" window opens.
Click "Finish" to complete the installation.



25. After the installation has been completed, a restart is required.

4.5 Workplace PC

4.5.1 Installing AMM/E Service Client SE Client-Setup

The "ServiceClient_ServiceEng_Setup_32bit.exe" or "ServiceClient_ServiceEng_Setup_64bit.exe" client setup is required for a remote access.

You have the following option of starting the client setup:

- Via online download.
- OR -
- Via a download saved on a storage medium / hard disk.

Requirement

Internet Explorer is installed on the workplace PC.

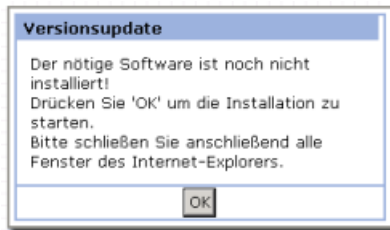
To find out which Internet Explorer is suitable for your PC, see Section: System preconditions (Page 17).

Procedure

The system checks whether the necessary software has been installed when you start the "Execute remote access" function.

If the AMM/E Service Client has not yet been installed, the "Version Update" window opens.

1. Follow the instructions and click "OK" to start the installation.



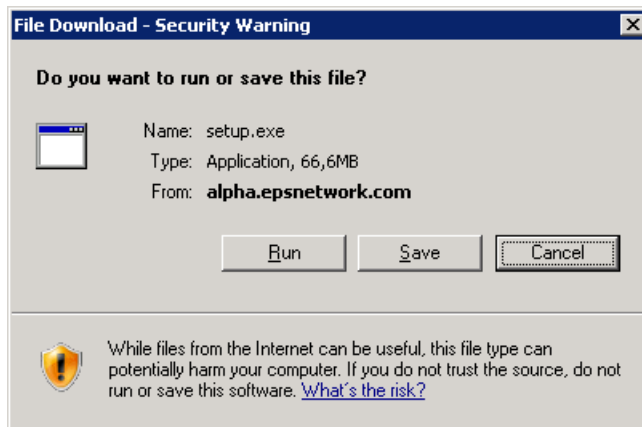
2. The "File Download - Security Warning" window opens. English is the user interface language.

You obtain the following data regarding setup:

- Name: Name of the setup
- Type: Type and size of the setup
- From: Specification of the Siemens server

Click "Save" to save the setup. You can initiate the installation later.

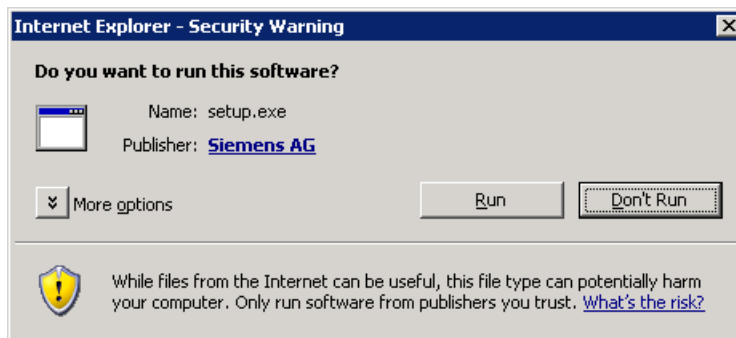
Click "Run" to start the download.



3. Once the download has been started, a further note with the following details appears:

- Name: Name of the setup
- Publisher: Specification of the Siemens server

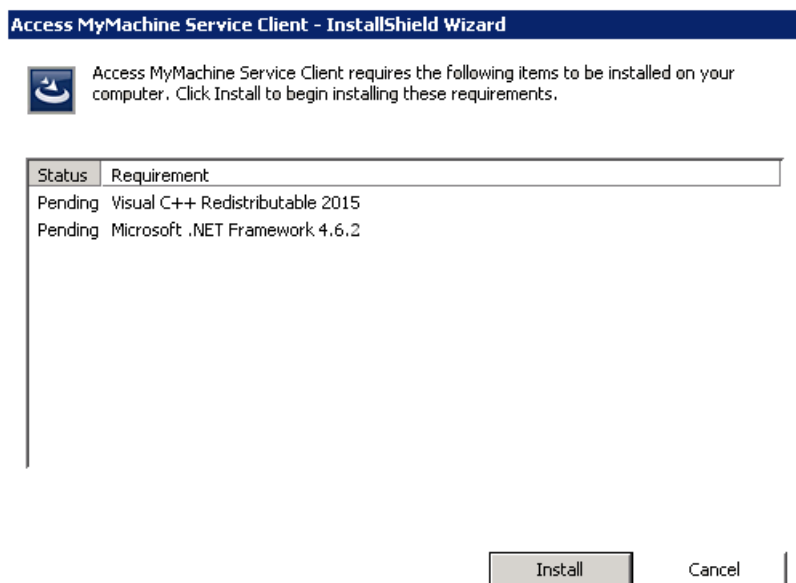
Click "Run" to start the setup.



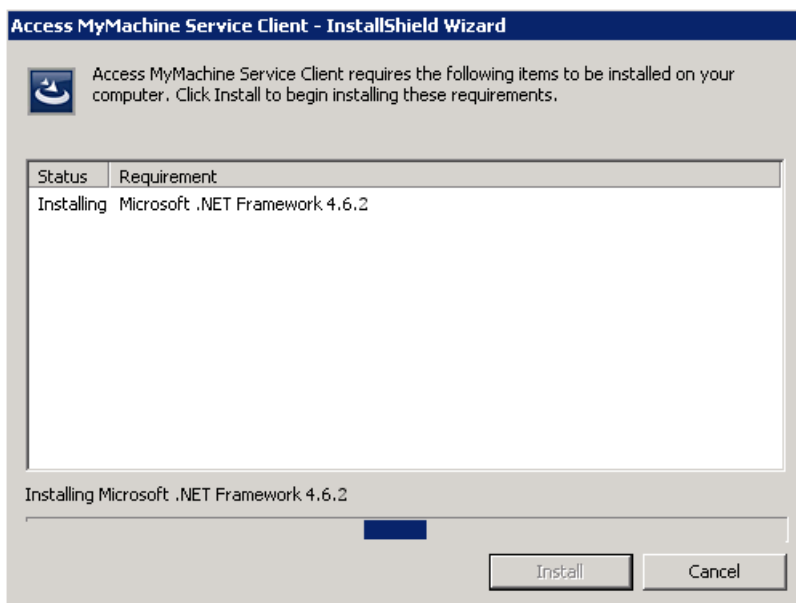
4. The InstallShield wizard is started and displays which further Windows updates you require:
 - Visual C++Redistributable 2015
 - Microsoft .NET Framework 4.6.2

Click "Install" to start the pending updates.

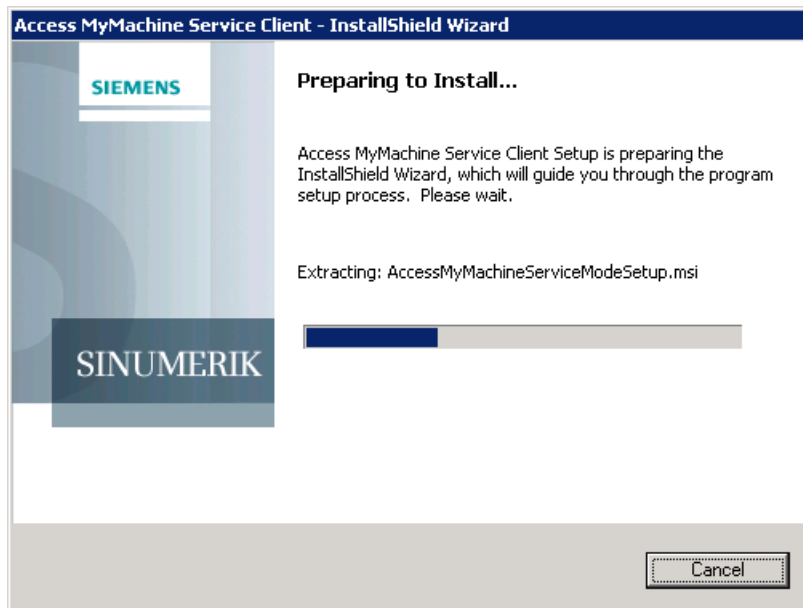
Visual C++Redistributable 2015 is installed first.



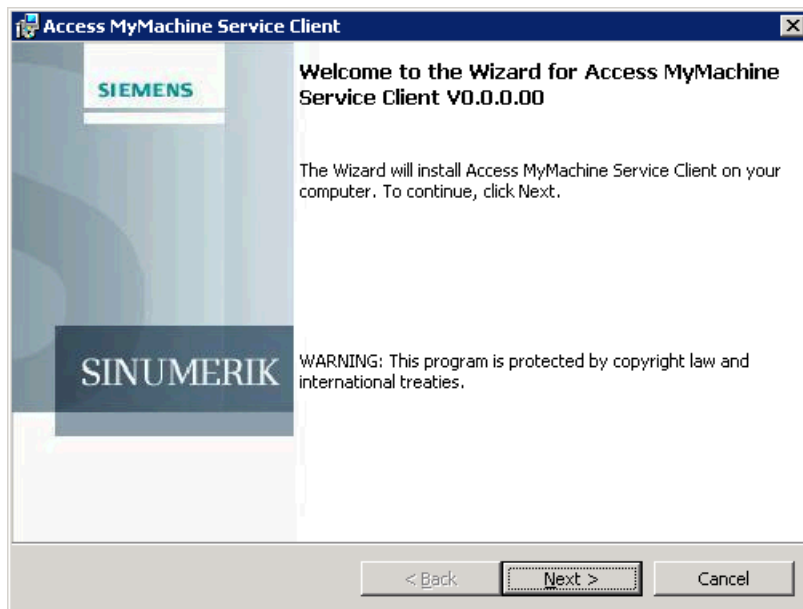
5. Click "Install" again to start "Microsoft.NET Framework 4.6.2".



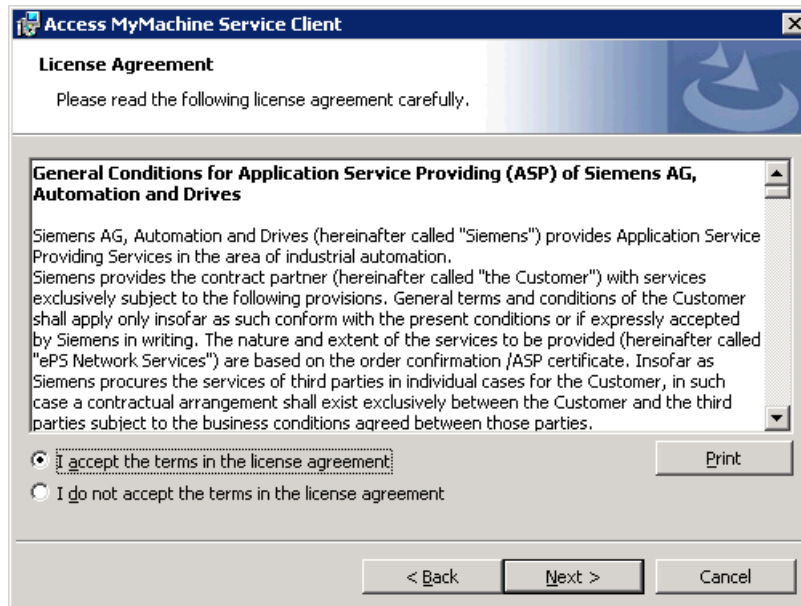
- The setup of ASC-SE is then prepared and the procedure is displayed on a progress bar.



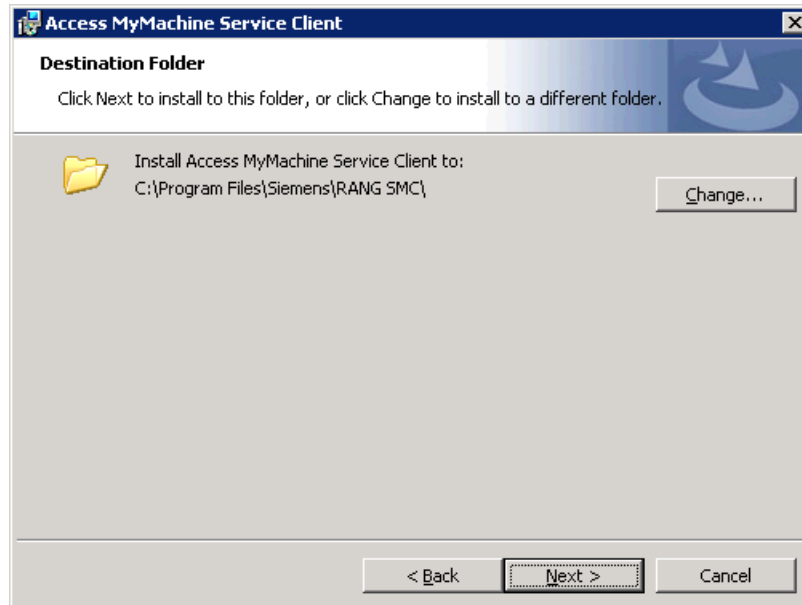
- The welcome screen opens and displays the current version number (in place of "V0.0.0.00", the current version number is displayed). Click "Next >" to prepare for installation.



8. The "License Agreement" window opens.
Read the license agreement.
 - Click "Print" if you want to print out the conditions.
 - Then activate the "I accept the terms of the license agreement" checkbox and click "Next >".
 - OR -
 - Click "< Back" to return to the previous window.



9. Select the installation directory.
Click "Next >" to accept the directory suggested by setup.
- OR -
Click "Change..." to change the installation directory.



10. Press "Install" to start the installation.

Remote STEP 7

Remote STEP 7 is only available with SINUMERIK Operate on Linux systems.

When using Remote STEP 7, with the setup of Service Client, the following files are automatically copied to your computer:

- Windows XP: %WINDIR%\system32\remote_step7.dll
- Windows 7: %CommonProgramFiles%\Siemens\Automation\Simatic OAM\bin\remote_step7.dll.

If the Service Client is installed on the PC without SIMATIC STEP 7, the setup must be repeated if SIMATIC STEP 7 is subsequently installed.

4.5.2 Uninstalling AMM/E Service Client SE

Procedure

1. The "Add or Remove Programs" window opens.
Select the setup "AMM/E Service Client SE" and click "Remove".
2. You receive a prompt whether you really want to remove "AMM/E Service Client SE".
Click "No" to abort the operation.
Click "Yes" to start the uninstallation
3. The uninstallation is started and the procedure is displayed on a progress bar.

Configuring ASC-SE/ASC-MO

5.1 Overview

You can make the following settings in Access MyMachine Service Client SE and in ASC-MO:

You can make the following settings in the "Settings" menu:

- Login..., see Section Setting the log-on data (Page 158).
- File transfer..., see Section Setting the file transfer (Page 159).
- Proxy..., see Section Entering the address of a proxy server (Page 161).
- Language..., see Section Setting/changing the language (Page 163).
- Logging..., see Section Setting the log file (Page 165).

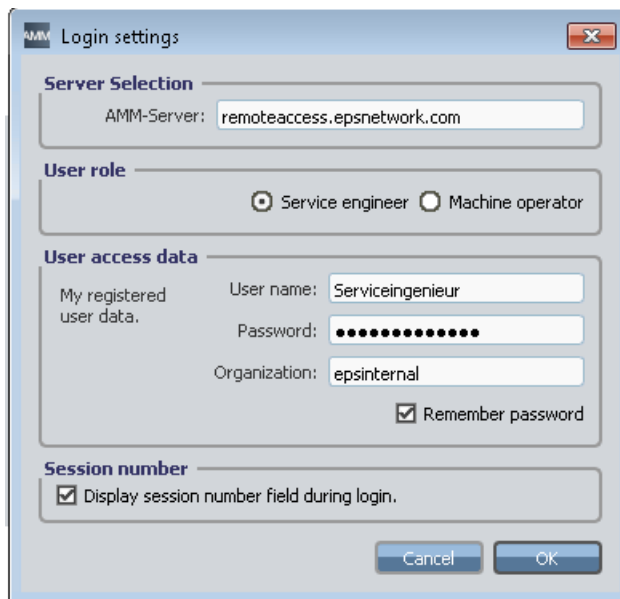
5.2 Setting the log-on data

You can register your login data. Your data is then automatically set when logging in.

Settings	Description
Server selection	
AMM/E server	Address of the Access MyMachine server.
User role	
Service engineer	Activate the appropriate role.
Machine operator	
Login data	
User name	User data to log in to SINUMERIK Integrate.
Password	
Organization	
Note password	If the function is activated, the password is stored in encoded form in the system.
Session number	
Display entry field for the session number when logging in.	If the function is activated, the entry fields for the session number are displayed in the login window.

Procedure

1. Call "Settings" > "Login..." in the menu bar.
The "Login Settings" window opens.
2. Enter your required data.
Click "OK" to save the settings.
- OR -
Click "Cancel" to reject the settings.



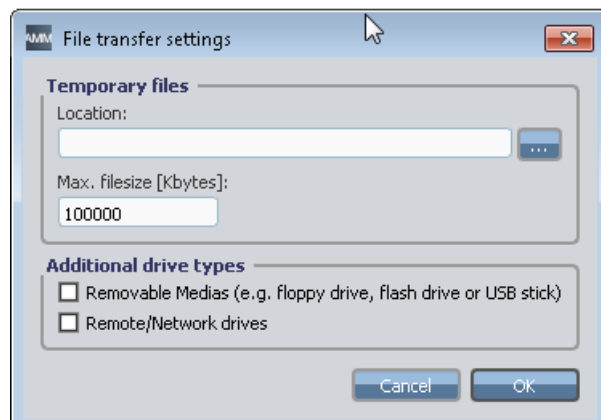
5.3 Setting the file transfer

You can log the actions in a file during a remote access. You specify the settings of the log file in the "File Transfer Settings" window.

Settings	Description
Temporary files	
Directory:	Specify the log directory or create a new directory in which the log files will be stored The directory selection is made in the "Find Directory" window.
Max. file size [KB]:	Specify the maximum number of log files. If "0" is entered, no log files are written. When the maximum number of files is reached, the oldest log file is deleted.
Additional drive types	
Removable drives	The machine operator specifies which drive types the service engineer may access. If no drive type is selected, the service engineer may only access the available hard drives.
Remote/network drives	

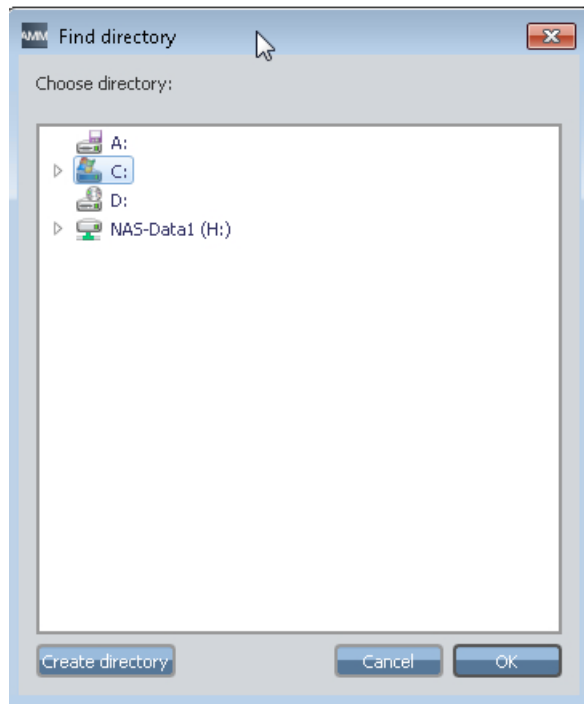
Procedure

1. Call "Settings" > "File transfer..." in the menu bar.
The "File Transfer Settings" window opens.
2. A standard directory is specified for the logs.
If you want to use another directory as log directory, you can specify that here, see "Find directory / Create new directory" below.
3. Specify the maximum number of log files that can be saved in the log directory.
4. Then define which drive types are supported for the file transfer.
Activate the corresponding checkbox for each drive type that is to be supported.
5. Click "OK" to save the settings.
- OR -
Click "Cancel" to reject the settings.



Find directory / Create new directory

1. Click "..." behind "Directory:" if you want to set a different directory than that specified. The "Find Directory" window opens.
2. Select the required directory in the directory tree.
- OR -
Click "Create new directory" to create a new directory.
3. Click "OK" to specify the directory.



5.4 Entering the address of a proxy server

If access to the Internet is done via a proxy server, define the desired method via the proxy settings.

Setting	Description
Do not use a proxy (direct connection)	Establishes a direct connection to the Internet.
Automatic proxy detection	Automatically determines the address of a proxy server for access to the Internet from the network.
Use system proxy settings	Uses the Internet Explorer settings for connection to the Internet. Click "Internet options" to open the Internet options of the system in order to check or change the proxy settings.
Use Manufacturing IT client proxy settings	Uses the settings of the Manufacturing IT client to gain access to the Internet.
Use automatic configuration script:	Address input of the proxy server from which the proxy script is downloaded.
Use these proxy settings (manual):	Address input (address and port) of a specific proxy server.
Use these proxy credentials:	Input of the access data if the proxy server requires a login.
Remember authentication data	The access data is stored retentively in the system. The password is stored in encoded form.

Procedure

1. Call "Settings" > "Proxy..." in the menu bar.
The "Proxy settings" window opens.
2. Select the desired proxy setting.
If you are using your own proxy login data, activate the "Use these proxy settings (manual):" checkbox.
]Then activate the checkbox "Use these proxy credentials:" and enter your username and password.

5.4 Entering the address of a proxy server

3. Activate the "Remember authentication data" checkbox if you want to save your login data permanently.
4. Click "OK" to save the settings.
- OR -
Click "Cancel" to reject the settings.



5.5 Setting/changing the language

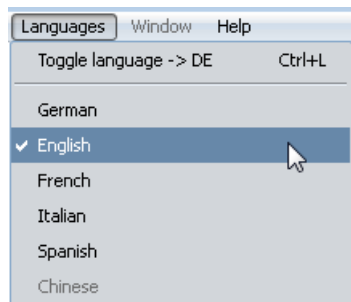
The displayed language can be changed during a session in two different ways:

- Via the "Languages" menu.
- Via the key combination <Ctrl> and <L>. However, you must define the two "preferred" languages for this beforehand, see below: Setting the language changeover.

Changing the language

You can change the currently displayed language.

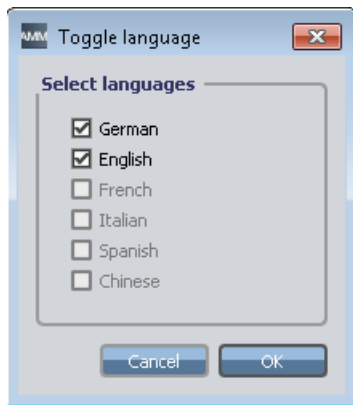
1. Open the "Languages" menu.
All the available languages are displayed. The current language is marked.
2. Check the checkbox for the desired language.
The user interface is changed and displays the texts in the corresponding language.



Setting the language changeover

To ensure that you can quickly change to another language during a session using the key combination <Ctrl> + <L>, you must first specify the two preferred languages.

1. Call "Settings" > "Language..." in the menu bar.
2. The "Toggle language" window opens.
Select the favorited languages.
3. Click "OK" to save the selection.
- OR -
Click "Cancel" to reject the selection.



5.6 Setting the log file

A log file is frequently required for diagnostic purposes. You can activate the creation of a log file and make further settings for the file.

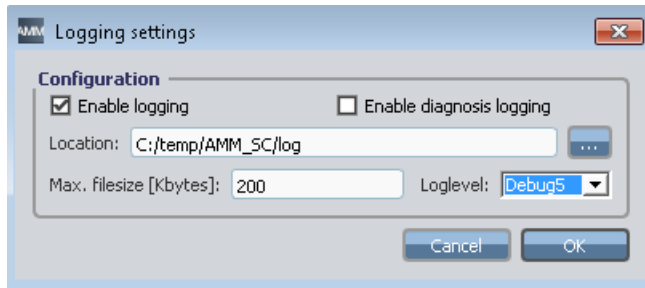
Setting	Description	
Configuration		
Activate logging	Switches the log functionality on/off.	
Activate diagnostics logging	Performs the logging with an increased log level and a greater maximum file size. More data is therefore available for diagnostic purposes. In this mode, the user cannot specify the maximum file size or a log level, because these values are specified by AMM/E.	
Directory:	Defines or creates a directory in which the log files are stored. The directory is created in the "Find Directory" window.	
Max. file size [KB]	Specification of the maximum file size in KB. AMM/E creates a maximum of two log files. As soon as the first file reaches the maximum size, a new log file is created. If an older file is already available, it is overwritten.	
Log level	Specifies whether and which data is to be logged.	
	None	Do not log any data.
	Fatal	Fatal error that prevents the further program execution.
	Error	Simpler errors that occur during the program execution, but that do not prevent further execution.
	Warning	Warnings that may indicate problems.
	Info	Information that indicates irregularities in the execution.
	DebugN	Logging of the program execution. "N" specifies the level of detail.

Procedure

1. Call "Settings" > "Logging..." in the menu bar.
The "Logging settings" window opens.
2. Activate the "Enable logging" checkbox.
This activates the creation of a log file. The log files can be created with the default settings displayed in the dialog. If required, you can make fine settings for the logging.
3. A standard directory is specified for the log files.
If you want to use another directory as a log file directory, specify the desired directory, see "Find directory/Create new directory" below.

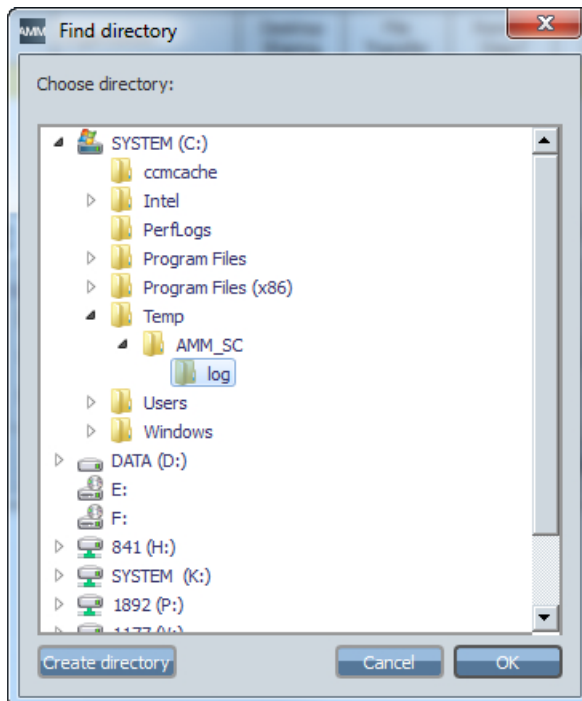
5.6 Setting the log file

4. Activate the "Activate diagnostics logging" checkbox if you want an extended log file. However, you can then no longer manually define the maximum file size and the log level.
5. Click "OK" to save the settings.
- OR -
Click "Cancel" to reject the settings.



Find directory / Create new directory

1. Click "..." behind "Directory:" if you want to set a different directory than that specified. The "Find Directory" window opens.
2. Select the required directory in the directory tree.
- OR -
Click "Create new directory" to create a new directory.
3. Click "OK" to specify the directory.



5.7 Activating functions

To use the remote access functions, activate the following functions via checkboxes in the settings area "Remote access via Access MyMachine / settings":

- Screen enable
- File transfer
- STEP 7 via the Internet
- Automatic recording of the meeting

The "Screen enable" and "File transfer" functions are separate applications that exist between the session leader and the machine operator.

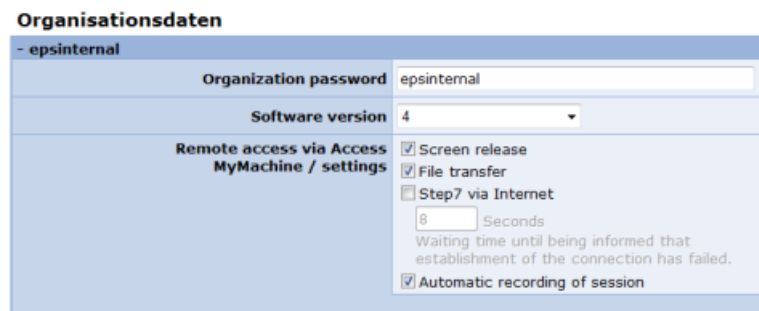
Observing participants cannot participate actively in the actions.

Functions

Function	Description
Screen enable	Enables the screen enable for a remote access.
File transfer	Enables the transfer of files.
STEP 7 via the Internet... Seconds	Enables a remote access via STEP7.
Automatic recording of the meeting	Enables the automatic recording of a conference.

Procedure

1. Open the "Administration" > "Organization administration" > "Organization data" tab.
2. The "Organization Data" window opens.
You can switch the individual functions on and off via the checkboxes at "Remote access via Access MyMachine / settings".
3. Click "OK" to confirm the settings.



Appendix

A.1 List of abbreviations

Admin	Administrator (user role)
AMC	Analyze MyCondition
AMD	Access MyData
AMM/E	Access MyMachine/Ethernet
AMP	Analyze MyPerformance
AMT	Access MyTool ID
ASC	Access MyMachine/Ethernet Service Client
ASCII	American Standard Code for Information Interchange
ASP	Application Service Provider-Variante
BA	Operating instructions
CAM	Computer-Aided Manufacturing
CF card	CompactFlash Card: Memory card
CNC	Computerized Numerical Control:
CoL	Certificate of License
COM	Communication
COM	Component Object Protocol (programming model of Microsoft®)
CU	Control Unit
CP	Communication Processor
CPU	Central Processing Unit:
DB	Data Block (PLC)
DBB	Data Block Byte (PLC)
DBW	Data Block Word (PLC)
DCOM	Distributed Component Object Model
Dbxy	Data Block (e.g. B 59)
DHCP	Dynamic Host Configuration Protocol: Dynamic assignment of an IP address and other configuration parameters on a computer in a network
DNC	Direct Numeric Control
DIR	Directory:
DW	Data Word
FCC	File Client Cache
ET	Equability axis test
h	Hour
HMI	Human Machine Interface: SINUMERIK user interface
HD	Hard Disk: Hard disk
HTTP	Hypertext Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure,
HW	Hardware

Appendix

A.1 List of abbreviations

IAC	InterActive Client
IB	Commissioning engineer (user role)
IE	Internet Explorer
IFC	Interface Client
IH	Maintenance
IIS	Microsoft Internet Information Service
CT	Circularity Test
MB	Megabyte
MCIS	Motion Control Information System
MCIS MDA	MCIS Machine Data Aquisition: Machine data management
MCP	Machine Control Panel:
MD	Machine Data
MHComm	Machine Handler Communication
MCS	Machine Coordinate System
MLFB	Machine-Readable Product Code
MMP	Manage MyPrograms
MMP IFC	Manage MyPrograms InterFace Client
MMT	Manage MyTools
MO	Machine Operator: Machine operator (user role)
MPI	Multi Port Interface: Multiport Interface
MRL	Manufacturing Resource Library
MS	Microsoft
MSDE	Microsoft Data Engine or Microsoft Desktop Engine database software
MSI	Microsoft Software Installation
MSTT	Machine control panel
NC	Numerical Control: Numerical control
NCK	Numerical Control Kernel: Numeric kernel with block preparation
NCU	Numerical Control Unit: NCK hardware unit
NFS	Network File System
NTLM	NT LAN Manager: Authentication procedure for computer networks
OB	Organization block in the PLC
ODBC	Open Database Connectivity
OEM	Original Equipment Manufacturer
OLE	Object Linking & Embedding
OP	Operation Panel: Operating equipment
OPI	Operation Panel Interface: Interface for connection to the operator panel
OPC	OLE for Process Control
PC	Personal Computer
PCMCIA	Personal Computer Memory Card International Association (memory card standardization)
PCU	PC Unit: Computer unit
PG	Programming device
PDA	Production Data Acquisition: Production data acquisition
PLC	Programmable Logic Control: PLC

PMT	Parts Monitoring & Tracking: Parts tracking
PO	POWER ON
ProToolPro	Configuration tool
PWS	Personal Web Server
RFC	Requests for Comments
ROM	Read Only Memory
SC	Service Client
SE	Service Engineer
SEC	Service Engineer Client
SEG	Tool presetter
SFI or SFI RM	Shop Floor Integrate or Shop Floor Integrate Resource Management
SI	SINUMERIK Integrate
SK	Softkey
SSL	Secure Socket Layer
SW	Software
TDI	Tool Data Information
TC	Teamcenter
TCP	Transmission Control Protocol
TLCA	Tool Library CA: Tool catalog data
TLCU	Tool Library Customer: Customer tool catalog data
TLCUA	Tool Library Customer Assemblies: Complete tools
UAT	Universal Axis Test
UNC	Uniform naming convention
VB	Visual Basic
VC	Visual C
VNCK	Virtual numerical control core
WCS	Workpiece Coordinate System
T	Tool
TLC	Tool Length Compensation
WOP	Workshop-Oriented Programming
WPD	Work Piece Directory: Workpiece directory
TRC	Tool Radius Compensation
WSDL	Web Services Description Language
T	Tool
TO	Tool Offset
MT	Machine Tool
TM	Tool Management
TC	Tool Change
XML	Extensible Markup Language

A.2 Documentation overview SINUMERIK 840D sl



Index

A

- AMM/E Service Client
 - Installing with HMI-Advanced, 119
 - Uninstalling, 114
 - Uninstalling with HMI-Advanced, 134
 - Update, 111
- AMM/E Service Client SE
 - configuring, 157
 - Installing on machine PC, 136
 - Online download, 149
 - Remote STEP 7, 154
 - Uninstalling, 155
- App installation
 - Base Setup, 27
- ASC-MO Update
 - HMI-Advanced, 117
 - SINUMERIK Operate, 112
- Authentication procedures, 29

B

- Base Setup, 26
 - Uninstalling, 34
- Basic installation
 - Installer, 23

C

- Certificate
 - Importing the root certificate, 60
 - Updating the RSA certificate, 59
- Client installation
 - Overview, 16
- Client setup
 - AMC directory, 13
 - AMM/E directory, 13
- Configuring AMM/E remote access
 - Activating file transfer, 167
 - Activating screen enable, 167
 - Activating session recording, 167
 - Activating STEP 7, 167
 - File transfer, 159
 - Language selection, 164
 - Log file, 165
 - Login data, 158

- Proxy server, 161
 - Set the language., 163
- Configuring ASC-MO, 157
- Configuring URLs
 - HMI Advanced, 67
 - SINUMERIK Operate, 33
- Connection problems
 - HMI-Advanced, 57

D

- Data transfer, 76
- Download methods for the bootscript, 80

E

- Expert mode, 65

G

- Generic Driver Support, 72

I

- IAC.exe, 85
- Installer, 23
 - install, 23
 - Uninstalling, 35
- Installing an AMC client
 - HMI-Advanced, 45
 - Industrial PC, 93
 - Overview, 19
- Installing the TRANSLINE client setup, 84

L

- Log file directory, 78

M

- MhController, 86
- MhCtrlr.exe, 86

P

Proxy

- adapting, 28, 30
- Authentication procedures, 29
- Change configuration, 58
- setting, 28

R

Registering the OPC server, 58

Remote STEP 7

- AMM/E, 154

S

Setting data volumes, 74

SINUMERIK Integrate

- Applications in ASP operation, 15
- Display on SINUMERIK Operate softkey, 20
- Enable at SINUMERIK Operate, 22
- Start properties, 82
- stopping at SINUMERIK Operate, 22

SINUMERIK Integrate client

- Change,
- Remove,
- Repair,
- Update for SINUMERIK Operate under Linux, 41
- Update for SINUMERIK Operate under Windows, 36

System requirement, 17

T

Teleservice update

- HMI-Advanced, 115

Time synchronization, PLC-HMI, 84

U

Update

- ASC-MO for HMI-Advanced, 117
- ASC-MO for SINUMERIK Operate, 112
- Teleservice for HMI-Advanced, 115