SIEMENS

Preface

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SINUMERIK

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

Installation Manual

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 A5E33520367B-AF

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.

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

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

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:

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 (<u>https://support.industry.siemens.com/cs/de/en/view/108464614</u>):

- 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 (<u>https://support.industry.siemens.com/My/ww/en/documentation</u>), 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 (<u>http://www.siemens.com/sitrain</u>), 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 (<u>https://support.industry.siemens.com/cs/de/en/ps/faq</u>).

SINUMERIK

You can find information about SINUMERIK at the following address (<u>http://www.siemens.com/</u> 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 (<u>https://support.industry.siemens.com/cs/us/en/view/108862708</u>).

NOTICE

Misuse of data

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.

This applies to the following data:

- Archive files
- Image files
- Project files
- Trace files
- Safety-relevant files

Further information on secure data storage can be found at Industrial Security Configuration Manual (<u>https://support.industry.siemens.com/cs/us/en/view/108862708</u>).

NOTICE

Danger due to insecure Internet connection

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 (<u>https://support.industry.siemens.com/cs/us/en/view/108862708</u>).

NOTICE

Security risk through administrator rights

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.

Further information on the secure administration of user accounts and the assignment of rights can be found at Industrial Security Configuration Manual (<u>https://support.industry.siemens.com/cs/us/en/view/108862708</u>).

EC Declaration of Conformity

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

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Fundamental safety instructions

1.1 General safety instructions

M 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.

- Observe the safety instructions given in the hardware documentation.
- Consider the residual risks for the risk evaluation.

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.

- 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

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).

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.

Fundamental safety instructions

1.3 Industrial security

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:

_		Automation in production
	Productivity in production	Access MyData
Productivity in service	Manage MyPrograms	
Access MyMachine	Manage MyTools	
	Analyze MyPerformance	
Analyze MyC	Condition	
	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:

2.1 Product overview

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)





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.



Introduction

2.2 Application areas and interaction

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:	X			
Installer				
Base Setup				
Client setup	X			
SINUMERIK Integrate (SI)				
Machine with HMI-Advanced				
Client setup	X			
SINUMERIK Integrate (SI)				
Machine PC (IPC)	,			
Client setup	X			
SINUMERIK Integrate (SI)				
Workplace PC				
Client setup	X			
SINUMERIK Integrate (SI)				

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-GH	z processor
RAM (GB)	min	. 4
Free hard disk capacity (GB) ¹⁾	min	. 1
Operating systems	Windows 7 SP1 (x64) Profes	sional/Enterprise/Ultimate1)
	Windows XP SP2 (x32) Professional
	Windows XP Embedde	d (x32) SP3 Standard
Web browser		
Microsoft Internet Explorer	IE11 with Comp	patibility Mode
Machine PC		
Processor	1 GHz pr	ocessor
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 Explorer9)	IE10, IE11 with	n comp. mode
Databases	-	
Machine ⁴⁾⁵⁾		
SINUMERIK 840D sl	As of 2.6 S	P1 HF5 ⁷⁾
with SINUMERIK Operate	As of 2.7 / 4.4 SP4 HF2	
	As of 4.	5 SP4
	As of 4.7 S	SP2 HF1

Introduction

2.3 System preconditions

Product	SINUMERIK Integrate 4.1 SP7		
Applications	AMC 4.13 SP7	AMM/E 4.1 SP7 ¹⁰⁾	
Hardware	As of NCI	J 710.3	
	As of NCI	J 720.2	
	As of NCI	J 730.1	
	As of PCU 50.3 (Windo	ws XP SP3 or higher)	
SINUMERIK 840D	As of 7.3	3 SP3	
with HMI-Advanced ⁶⁾			
Hardware	As of PCI	J 50.3 ⁸⁾	
Free hard disk capacity	Not spe	cified	
Database	-		
Screen resolution	640 x 480		
	800 x	600	
	1024 x	768	
	1280 x 768 (Erg	joline 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.



MD

- 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.



Network

services

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.

SINU INTE	→ DEF_POINT			84/18/13 2:28 PM
		SIEMENS SINUMERIK INTEGRATE e Jaman Ad, 2012. Al Rein Russed.		
Settir	ngs		Teleservice	Online services

Settings

3. Press the "Settings" softkey.

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



Analyze MyCondition (AMC) client setup

3.2 Machine with SINUMERIK Operate

Activate use	4.	Press the "Enable use" softkey to activate SINUMERIK Integrate. You obtain the safety prompt "Do you really want to enable the use of SIN- UMERIK Integrate applications?"
ок	5.	Press the "OK" softkey to confirm the confirmation prompt. The use of SINUMERIK Integrate applications is enabled. - OR -
X Cancel		Press the "Cancel" softkey. The applications are not enabled, and the previous window is displayed.

3.2.3 Locking applications

use

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

Procedure



2. The following confirmation warning is displayed:

"Do you really wish to inhibit the use of SINUMERIK Integrate applications?"



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.
Basic N		Press the "Basic Installation" softkey.
installation		An appropriate status message is displayed as to whether the basic instal- lation has already been installed.
Install		If the basic installation is not yet performed, press the "Install" softkey.
		Basic installation: Manage MyPrograms, Manage MyTools, Analyze MyPerformance Install System status Install There is currently no basic installation present. Install System status Install System status Install System status Install System status Install Install Install System status Install Install Install Install Install Install Install
		Settings Teleservice Services



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.

Analyze MyCondition (AMC) client setup

3.2 Machine with SINUMERIK Operate

OK

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.

Selected basic installation		
File:	/user/installer 00 00 00 00.tar.oz	
Version:	AA AA AA AAA	
vor bron.	0101001001000	



 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 quent illustrations.	
Reference version	<	Actual version (effective version = installed version) and reference version (nominal version) match.
	1	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.

				84/18/13 2:25 PM
App installation				Install
Application name	Actual version	Set version	Status	
Installer	00.00.00.00.000	~		Details
				Uninstall

Install

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_00", the version currently installed on the control system is displayed). Select the "OK" softkey.



5. 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.

	84/18/13 2:22 PM
Application is being installed Base Setup 00.00.00.0000	
	Cancel
Installation was successful Please restart the HMI!	ОК

7. 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	\checkmark	
Base Setup	00.00.00.00.000		

Details

8. 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 setting	gs enabled	Generally use proxy settings.
Directory		The following directories are offered in the drop-down list:
		Siemens (data cannot be changed)
		• OEM
		• Addon
		• User
Automatic		The proxy settings are determined automatically.
Use proxy se	cript	Use the following proxy settings.
	URL (proxy script)	Individual address input of the proxy.
Use fixed pr	оху	Use the following proxy settings.
	Proxy 1	Specify a maximum of three proxy settings.
	Proxy 2	
	Proxy 3	
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

Provies	1.	The "Settings" wir	ndow is open.	
THUNICS		Press the "Proxys	s>" softkey.	
		The current settin	gs are displayed.	
Edit	2.	Press the "Edit" s Activate the "Ove	oftkey to change the server access rwrite here" checkbox to accept the	data. new entry.
		<mark>⊻Use praxy script</mark>		🗹 Overwrite here
		URL (proxy script)	http://ProxyServer/MyProxyScript.pac	



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.

		-	
Directories:	User	×	
🗹 Automatic		Overwrite here	
Use proxy script		🗹 Overwrite here	
URL (praxy script)	http://ProxyServer/MyProxyScript.pac		
Use fix proxy		🗌 Overwrite here	
Praxy 1			
Praxy 2			
Praxy 3			
🗹 Direct	R	0verwrite here	Cancel
<u>^</u>			OK
Settings		Teleservice	Online services

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:	Set authentication data for the desired level.
	The default setting is "Siemens".
	As with the data structure of SINUMERIK Operate, you can define settings for each level.
	• User
	• OEM
	• Addon
	• Siemens
	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.

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

Procedure

Proxies	1.	The "Settings" window is open.
		Press the "Proxys>" softkey.
		The current settings are displayed.
Credentials	2.	Press the "Credentials" softkey to enter the data for authenticating on the
		proxy server.

	Edit
Domain:	
User name:	
Password:	
Workstation:	
ncu1	"
	Back
Settings Teleservice	services

- OR -

Edit

Press the "Edit" softkey to change the data.

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

Directories:	User	Overs vite here	
Domain:			
Password:			
Workstation:			Cancel
~			OK
Settings		Teleservice	Online services

4. Activate the checkbox "Overwrite here" checkbox.

Directories:	User		
		Ouerurite her	
			•

Activating overwriting

	5.	Now enter the data for the domain, user name, and password.	
		Domain:	
		User name:	
		Password:	
OK	6.	Press the "OK" softkey to save the settings.	
		- OR -	
× ancel		Press the "Cancel" softkey to close the window without accepting settings.	the
	7.	Restart the control so that the access data can take effect.	
		Settings	
		SINUMERIK Integrate Use ACTIVATED -Access MyBackup -Access MyMachine -Analyze MyCondition -Analyze MyCondition -Analyze MyPerformance -Manage MyMaintenance -Manage MyPrograms -Manage MyTools Basic installat Changes will not become effective until after reboc	ate es
		Continue Con	_
		Settings Teleservice Service	es

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:		
	Siemens (data cannot be changed)		
	• OEM		
	• Addon		
	• User		
Display homepage	e 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</ip>		
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



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

Edit

2.

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

Verzeichnis:	User	v	
Anzeige Homepage		🗹 hier überschreiben	
https://www.epsnetwork.com/Services/HMI/			
RenderService		🖌 hier überschreiben	
https://render.epsnetwork.com/IERenderService/HandshakeService.asmx			
UebService 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	

Analyze MyCondition (AMC) client setup

3.2 Machine with SINUMERIK Operate



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.

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

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 "00.00.000", the current version is displayed on the control system.)

Uninstall

0K

2.

- App installation

 Application name
 Actual version
 Set version
 Status
 Base Setup
 00.00.00.000
 Details
 Uninstall
 Uninstall
- 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 -



0K

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





× Cancel 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.



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:\hmisl\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.



- 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.

🔀 SINUMERIK Integrate Client	×
License Agreement Please read the following license agreement carefully.	
Please note:	^
This software is protected under German and/or US American Copyright Laws and provisions in international treaties. Unauthorized reproduction and distribution of this software or parts of it is liable to prosecution. It will be prosecuted according to criminal as well as civil law and may result in severe punishment and/or damage claims. Please read all license provisions applicable to this software before installing and using this software. You will find them after this note.	
If you surplaced this cofficers as a CD marked as "Trial Varian" artegether	~
I accept the terms in the license agreement Print	
\bigcirc I do not accept the terms in the license agreement	
InstallShield	
<pre></pre>	

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

🔂 SINUMERIK Integrate Client	
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.	5
Install SINUMERIK Integrate Client to: C:\Program Files\Siemens\Sinumerik\HMIsl\	
InstaliShield < Back Next > Cance	1

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

🕲 SINUMERIK Integrate Client	X
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield)

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

🛃 SINUME	RIK Integrate Client 📃 🗖 🔀
Installing The prog	SINUMERIK Integrate Client gram features you selected are being installed.
17	Please wait while the InstallShield Wizard installs SINUMERIK Integrate Client. This may take several minutes.
	Status:
	Validating install
InstallShield –	< Back Next > Cancel

9. Click "Finish" to complete the installation.

🗟 SINUMERIK Integrate Client		
SIEMENS	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed SINUMERIK Integrate Client. Click Finish to exit the wizard.	
SINUMERIK		
	Show the Windows Installer log	
InstallShield		

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.

Emergency Boot System - V04.70.05.00
Firnware Update
Diagnosis
Backup NCU Software and Data
Update NCU Software and Data
Pestore NELL Software and Data
Modity NLU Settings
Service Shell
Restart
↓ t Page↓ Page1

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

Emergency Boot System - Software update	Ŷ
Update system software from USB memory stick	
Recover system from USB memory stick (reformat CF card)	
Update system software from network drive	
Recover system from from network drive (reformat CF card)	
Connect to network drive	
	Cancel
	Uk
+ T Page+ PageT	

 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.

Energency Boot System - Restore system	
Current source: USB-Stick	
sinintclient_03.00.01.00.002.tgz	
	Show Version
	Back
	OK
I + David David	

7. The selected file is displayed.

Press the "OK" softkey to confirm your selection.

Press the shortcut key <Shift> + <F8> on the operator panel.

Emergency Boot System - Software update	
Selected File: sinintclient_03.00.01.00.002.tgz	
	Back
	ОК
×	

8. A confirmation prompt appears.

Press the "OK" softkey to confirm the confirmation prompt. - $\ensuremath{\mathsf{OR}}$ -

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.



3.3.1 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 proper for installation.

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.

SINUMERIK Integrate Client	
License Agreement Please read the following license agreement carefully.	
General Conditions for Application Service Providing (ASP) of Siemens AG, Automation and Drives	
Siemens AG, Automation and Drives (hereinafter called "Siemens") provides Application Service Providing Services in the area of industrial automation. Siemens provides the contract partner (hereinafter called "the Customer") with services exclusively subject to the following provisions. General terms and conditions of the Customer shall apply only insofar as such conform with the present conditions or if expressly accepted by Siemens in writing. The nature and extent of the services to be provided (hereinafter called "ePS Network Services") are based on the order confirmation /ASP certificate. Insofar as Siemens procures the services of third parties in individual cases for the Customer, in such case a contractual arrangement shall exist	~
I accept the terms of the license agreement I go not accept the terms of the license agreement InstallSkield	
Kentonicita Kext > Cance	el

- 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 >".

SINUMERIK Integrate Client	
Installation mode	
Please specify installation mode	
Standard mode	
Expert mode (with additional installation options)	
InstallShield	
< Back Next >	Cancel

- OR -

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

SINUMERIK Integrate Client	
Installation mode	Addam - Addam
Please specify installation mode	
 Standard mode Expert mode (with additional installation options) 	
InstallShield	Cancel

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

SINUMERIK Integrate Client	
Controller configuration	adam
Please select your controller SINUMERIK SIMATIC Industrial PC	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel

 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".

SINUMERIK Integrate Client	
Controller configuration	- Sector
Please select your SINUMERIK connection type HMI-Advanced and SINUMERIK 840D/Di or 810D + PCU50/70 SINUMERIK with own integration	
InstallShield	Cancel

- 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 >".

SINUMERIK Integrate Client	
Controller configuration	
Please select your SINUMERIK HMI-Advanced numeric controller mode I:1 1:N Flying HMI	
InstallShield	Cancel

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 >".

SINUMERIK Integrate Client	
Reconfigurable parameters	Antonio - Antoni
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
InstallShield <u>Back Next ></u>	Cancel

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 >".

SINUMERIK Integrate Client Available Hotkeys Please choose a hotkey to start the product on the HMI	
 ► Level 1 Softkey 7 ► Level 1 Softkey 8 ► Level 2 Softkey 1 ► Level 2 Softkey 2 ► Level 2 Softkey 5 ► Level 3 Softkey 1 ► Level 3 Softkey 3 ► Level 3 Softkey 4 ► Level 3 Softkey 5 ► Level 3 Softkey 5 	
Activate video softkey InstallShield	
< <u>B</u> ack	Next > Cancel

- 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.

SINUMERIK	Integrate Client	
Choose D Select fo	Vestination Location Ider where setup will install files.	
	Install SINUMERIK Integrate Client V.0.0.0.00to: C:\Siemens\Sinumerik\HMI-Advanced\add_on	<u>C</u> hange
InstallShield –	< <u>B</u> ack	Next > Cancel

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.

SINUMERIK Integrate Client		
⚠	The SINUMERIX Integrate Client software is recommended to be installed within the active HMI installation on drive F(), IF you install the software in the folder F((different path), the software may not work correctly. Do you really want to install the software in this folder?	
	Ves No	

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).

SINUMERIK Integrate Client	
Reconfigurable parameters	
Please select the parameters you wish to reconfigure HMI Softkey to start the product on the machine SINUMERIK Integrate URLs	
Internet proxy configurations Generic Driver Support Table area and logging settings	
Data transfer area location Log directory location Bootscript download strategy	
SINUMERIK Integrate Client startup parameters Time master settings InstallShield	
< <u>B</u> ack Next>	Cancel

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

Define the URLs of SINUMERIK Integrate, see Section Configuring URL settings (Page 66)

SINUMERIK Integrate Client	
SINUMERIK Integrate URL configuration Enter requested data.	- string
Please enter SINUMERIK Integrate URLs	
Display home page:	
Render service:	
Web service:	
InstallShield	Cancel

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

SINUMERIK Integrate Client	
٩	Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!
	ОК

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".

Internet Properties		
General Security Privacy Content Connections Programs Advanced		
Home page		
To create home page tabs, type each address on its own line.		
Use <u>current</u> Use de <u>f</u> ault Use <u>b</u> lank		
Browsing history		
Delete temporary files, history, cookies, saved passwords, and web form information.		
Delete browsing history on exit		
Delete		
Change search defaults. Settings		
Tabs Change how webpages are displayed in Settings tabs.		
Appearance		
OK Cancel Apply		

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

SINUMERIK Integrate Client	
Detected internet connection settings	
Are these internet connection settings correct?	
Current Settings:	
Proxy server enabled: OFF Automatic proxy configuration script: OFF Automatically detect settings:	
UFF	→
Install Shield	
	< <u>B</u> ack <u>N</u> ext > Cancel

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.

SINUMERIK Integrate Client
Detected Internet Security Settings
Warning! As recommended in the Installation Guide, these Internet Explorer settings must be enabled:
Download signed ActiveX controls Not enabled Use TLS 1.0 Not enabled
X
Setup can fix the internet security settings or you can continue and install the product at your own risk, but some features may work incorrectly.
Fix internel security settings InstallShield
< <u>B</u> ack <u>N</u> ext > Cancel

19. The "Start Copying Files" window opens and shows an overview of the settings that you have made.

Click "Next >" to start the installation.

SINUMERIK Integrate Client
Start copying files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Prepare SINUMERIK Integrate Client installation for Series start-up OFF Assign to: Level 1 Softkey 8 SINUMERIK Integrate URL for the IAC: https://www.epsnetwork.com/Services/HMI/ SINUMERIK Integrate URL for the MHComm: https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx SINUMERIK Integrate URL for render server: https://render.epsnetwork.com/IERenderService/HandshakeService.asmx
InstallShield
< <u>B</u> ack <u>N</u> ext> Cancel

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

SINUMERIK Integrate Clien	
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on SINUMERIK Integrate Client V.0.0.0.00.
	< Back Finish Cancel

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

SINUME	RIK Integrate Client
٩	The system will be restarted now to complete the installation.
	ОК

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.

- 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.

DefaultCo	nnectio	nSettir	ngs						
Value data	a:								
0000	46	00	00	00	31	01	00	00	F1
8000	09	00	00	00	00	00	00	00	
0010	00	00	00	00	00	00	00	00	
0018	04	00	00	00	29	00	00	00)
0020	68	74	74	70	зA	2F	2F	70	http://p
0028	72	6F	78	79	63	6F	6E	66	roxyconf
0030	2E	65	72	6C	6D	2E	73	69	.erlm.si
0038	65	6D	65	6E	73	2E	64	65	emens.de
0040	2F	77	70	61	64	2E	64	61	/wpad.da
0048	74	20	DD	2F	9A	A 7	OD	CD	t Ý/.§.Í
0050	01	00	00	00	00	00	00	00	

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 2048bit 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...".

🚡 Con	sole1 - [Console Root]	
🚡 File	Action View Favorites	Window Help
4	New	Ctrl+N
	Open	Ctrl+O
	Save	Ctrl+S
	Save As	
	Add/Remove Snap-in	Ctrl+M
	Options	
	1 C:\Windows\\ServerMana	ager
	2 C:\Windows\system32\serv	vices
	3 C:\Windows\system32\gpe	edit

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

allable snap-ins:			1	Selected snap-ins:	
nap-in	Vendor	*		Console Root	Edit Extensions
ActiveX Control	Microsoft Cor				Damous
Authorization Manager	Microsoft Cor	-			Remove
Certificates	Microsoft Cor				
Component Services	Microsoft Cor				Move Up
Computer Managem	Microsoft Cor	_			-
Device Manager	Microsoft Cor				Move Down
Disk Management	Microsoft and		Add >		
DNS	Microsoft Cor				
Event Viewer	Microsoft Cor				
Folder	Microsoft Cor				
Group Policy Object	Microsoft Cor				
Internet Informatio	Microsoft Cor				
IP Security Monitor	Microsoft Cor				Advanced
· · · · · · · · · · · · · · · · · · ·		-]		
cription:					
e Certificates enon in alle	we you to browce	the	contents of the	certificate stores for yourself. a	service, or a computer.

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

Certificates snap-in		
This snap-in will always manage certificates for:		
My user account		
Service account		
Computer account		
	< Back Next > Car	ncel

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

Select Computer		X
Select the computer you wa This snap-in will always ma @ Local computer: (the	nt this snap-in to manage. nage: computer this console is running on)	
Another computer:	Browse	
Allow the selected co only applies if you say	mputer to be changed when launching from the command line. This to the console.	
		-
	< Back Finish Cano	e

- 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".

				Console Root	Edit Extensions
ActiveX Control M Authorization Manager M	lkrosoft Cor lkrosoft Cor	=		Certificates (Local Computer)	Remove
Certificates M Component Services M	licrosoft Cor licrosoft Cor				Move Up
Computer Managem M Device Manager M	licrosoft Cor				Move Down
Disk Management M	licrosoft and		Add >		
DNS M	licrosoft Cor				
Event Viewer M	licrosoft Cor				
Folder M	licrosoft Cor				
Group Policy Object M	licrosoft Cor				
Internet Informatio M	licrosoft Cor				
IP Security Monitor M	licrosoft Cor	+]		Advanced

- 7. The "Consol1 ..." 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.

Certificate Import Wizard	×
	Welcome to the Certificate Import Wizard This witard helps you copy certificates, certificate trust lests, and certificate revocation lets from your disk to a certificate store. A certificate, which is issued by a certification authority, is a conframion of your identity and cortains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept. To certificate, click Next.
	< Back Next > Cancel

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

ertificate Import Wizard		×
File to Import		
Specify the file you want to import.		
Eleanne		
C:\Users\Administrator\Desktop\mycert_	root.crt Browse	
Note: More than one certificate can be st	ored in a single file in the following formats:	
Personal Information Exchange- PKCS	#12 (.PFX,.P12)	
Cryptographic Message Syntax Standa	rd- PKCS #7 Certificates (.P78)	
Microsoft Serialized Certificate Store (.	SST)	
Learn more about certificate file formats		
	<back next=""> Cano</back>	:el

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 >".

tificate Is	nport Wizard	6
Certificat	Store	
Certi	icate stores are system areas where certificates are kept.	
Wind the c	ows can automatically select a certificate store, or you can specify a location for ertificate.	
e	Automatically select the certificate store based on the type of certificate	
	Place all certificates in the following store	
	Certificate store:	
	Trusted Root Certification Authorities Browse	
.earri mor	e BOOK (<u>STUTIARE 3KUTE)</u>	
	<back next=""> Cano</back>	el

- 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.

1111	Completing the Certificate Import Wizard	
<u>_</u>	The certificate will be imported a	fter you click Finish.
-	Certificate Store Selected by L Content File Name	 Trusted Root Certifica Certificate C:\Users\Administration
	< III	,

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	Defa	ault setting	3	
1	Changing the URLs of the client	IAC	IAC: https://www.epsnetwork.com/Services/HMI		ww.epsnetwork.com/Services/HMI
		MH	Comm:	https:// w	ww.epsnetwork.com/Services/MHC/Mhcomm.asmx
2	Configuration for the Internet access	-			
3	Size of the local data volume	Max	kimum size	e (MB):	100
		Max	kimum files	S:	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	1	Activate services		
		1	Automati startup	ically start	SINUMERIK Integrate Client on the machine at

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

3.3.4.2 Configuring URL settings

You define the URLs of SINUMERIK Integrate using this function.

83)

SINUMERIK Integrate URLs

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

SINUMERIK Integrate Client	
Reconfigurable parameters	
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
🔲 Generic Driver Support	
Data transfer area and logging settings	
🔲 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack <u>N</u> ext ≻	Cancel

 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

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

SINUMERIK Integrate Client	
Reconfigurable parameters	N.
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
🔲 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack Next≻	Cancel

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

SINUMER	RK Integrate Client
٩	Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!
	ОК

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

Internet Properties
General Security Privacy Content Connections Programs Advanced
Home page
To create home page tabs, type each address on its own line.
Use <u>current</u> Use de <u>f</u> ault Use <u>b</u> lank
Browsing history
Delete temporary files, history, cookies, saved passwords, and web form information.
Delete browsing history on exit
Delete
Search
Change search defaults. Settings
Tabs
Change how webpages are displayed in <u>Settings</u> tabs.
Appearance
Colors Languages Fonts Accessibility
OK Cancel <u>Apply</u>

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".

Local Area Network (LAN) Settings
Automatic configuration Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration. Automatically detect settings Use automatic configuration gcript Address
Proxy server Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections). Address: Port: 80 Advanced Bypass proxy server for local addresses
OK Cancel

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".

SINUMERIK Integrate Client	
Detected internet connection settings	alan - Alan
Are these internet connection settings correct? Current Settings:	
Proxy server enabled: OFF Automatic proxy configuration script: OFF Automatically detect settings: OFF	
InstallShield	< <u>Back</u> Next > Cancel

3.3.4.4 Selecting a driver

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

Generic Driver Support

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

SINUMERIK Integrate Client	×
Reconfigurable parameters	
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack Next≻	Cancel

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 >".

SINUMERIK Integrate Client		
Generic Driver Support Please add or remove a generic	driver	
New driver support Available Driver Name Identifier (ProgID or CLSID)	OPC driver	
Existing driver support		Add
InstallShield —	< <u>B</u> ack	Next > Cancel
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

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

SINUMERIK Integrate Client	X
Reconfigurable parameters	
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
🗹 Data transfer area and logging settings	
🔲 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack Next≻	Cancel

- 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 >".

SINUMERIK Integrate Client	
Data transfer area and logging settings Please configure the settings for machinehandler data transfer and logging	
Data transfer area settings Maximum size for machinehandler data transfer area (0-2000 MB) Maximum size (MB): 100 Maximum number of files for machinehandler data transfer area Maximum files: 5000	
Log settings Enable limiting number of files for logging Maximum files: InstallShield < <u>Back</u> Next>	Cancel

Option "MAXFILECOUNT"

In addition, you have the possibility of limiting the number of files in the directory "MHDTS" 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 >".

SINUMERIK Integrate Client	X
Reconfigurable parameters	
Please select the parameters you wish to reconfigu	ne
HMI Softkey to start the product on the machin	e
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
🗹 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameter	3
Time master settings	
InstallShield	
C	< <u>B</u> ack <u>N</u> ext > Cancel

 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" >.

SINUMERIK Integrate Client	×
Data transfer backup area location	
Please specify the location for the data transfer backup area (Note that network drives cannot be specified here)	
Destination Folder C:\\HMI-Advanced\add_on\tmp\MhDtsTmp Browse	
InstallShield	,
< Back Next > Cancel	

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

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

SINUMERIK Integrate Client	×
Reconfigurable parameters	
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
🔲 Generic Driver Support	
Data transfer area and logging settings	
Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack <u>N</u> ext ≻	Cancel

2. All log files are saved in the defined directory. Click "Browse," to select a new local target direct

Click "Browse..." to select a new, local target directory for the log files. Confirm the change and click "Next >".

SINUMERIK Integrate Client	
Log diretory location	
Please specify the location for the log directory (Note that network drives car specified here)	nnot be
C Destination Folder	
C:\\Sinumerik\HMI-Advanced\add_on\MH\log	Browse
InstallShield	
< <u>B</u> ack <u>N</u> ext≻	Cancel

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

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

SINUMERIK Integrate Client	
Reconfigurable parameters	N.
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
🔲 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack Next≻	Cancel

- 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 >".

SINUMERIK Integrate Client		
Bootscript download strategy Please specify the SINUMERIK Integrate Client bootscript download strategy		
Specify the bootscript download strategy		
 Offline mode ON, no repeated attempts to download the bootscript from the server 		
Offline mode OFF, the client performs repeated attempts to download the bootscript from the server		
Offline mode OFF, no repeated attempts to download the bootscript from the server		
InstallShield		
< <u>B</u> ack <u>N</u> ext > Cancel		

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

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

SINUMERIK Integrate Client	×
Reconfigurable parameters	
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack Next >	Cancel

- 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 >".

SINUMERIK Integrate Client
Startup parameter configuration Please configure startup parameters
Deferred startup of SINUMERIK Integrate Client Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300
Slow internet connection
Start of SINUMERIK Integrate Client Activate services Automatically start SINUMERIK Integrate Client on the machine at startup Suppress splash screen on startup
InstallShield Cancel

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

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

SINUMERIK Integrate Client	
Reconfigurable parameters	No.
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
Generic Driver Support	
Data transfer area and logging settings	
Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
✓ Time master settings	
InstallShield	
< <u>B</u> ack Next	Cancel

• 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 >".

SINUMERIK Integrate	Client	
Time master settings Please configure time r and TimeReadOK is re	for the machine master settings for the HMI. Settings for TimeAdjustInterval levant only if you choose to configure HMI as time master	(V)
Time master settings	master	
TimeAdjustInterval	0	
TimeReadOK	100	
InstallShield	< <u>Back</u>	Cancel

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.".

Natei Bilder Ko	infigurationen A	larmtexte Extras 7						
	2 2 2							
hojekt c.\Siemer	NATRANSLINE 2	000 HMI PRO RT 06.0	4.00.06%ePS	Test				
Verschieben des	Bildes mit Shilt + I	Mouse.	1	unktionstasten	_		Startbild 72	2. Horizontale
		Horizontale Fkt - Ta	uten	Anwahi	HMI			Fkt. Tasten
	1	1				1		AnwSystem
	1							Vorbereiten
-	1	-		1		-		Handbetriel
	1	- [_		-	_	Bearbeiten
	1	-	1	-		-		Diagnose
	-					-		Prozess
	Version	Online Services		_	MSTT	MPI	TCP/IP	Instandhaltg
	1					-	-	Dokument
		Children	м	Exe (Pfad und Datei)		Schu	tzstufen EXE einbinden	(73)
Neues Bild : HMI-Bilder :	EXE	OEM COEM	ne IDE	[thadd_on\IAC.exe Window litte:		Bildar	rwahk	7 💌
Fremd-ODX Gruppenabwahi		Enblers	len Zurlick	SINUMERIK Integrate		L.er	Verwendung	7
kein Bild Kennwort				Timeout(ms)	🗌 🗖 Anzeige	0/0 kere	Verwendung	-
p. ayour		Header	ichter 🦳	Pheload E Beenden	Bimao auti	blenden		

- 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"

C Child OEM	Exe (Pfad und Datei):	
O DEM	f:\add_on\IAC.exe	
C 0EM-Frame Standard EXE	Window title:	
Stanuaru EAE	SINUMERIK Integrate	
🔲 Einblenden Zurück	Window class:	
x-Pos y-Pos		
	Timeout:[ms] 0 🗖 Anzeige 0/0	
🔲 Header sichtbar 🔲 Preload 🔲 Beenden 🔲 Bitmap ausblenden		

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".

Siemens\TRANSLINE 2000 HMI PRO RT 06.04.00.05\ePS'	Test	
Starten von	Historarundorozessen	-
Exe (Plad und Datei):	Window title:	Window class
It\add_on\MhOtik.exe	MhController	1
ſ		1
r		1
Ē	- F	1
F		1
ſ		1
<u></u>		1
		1
		(I
		-

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.

B TRANSLINE 2000 HMI PRO CS	
Datei Bilder Konfigurationen Alarmtexte Extras ?	
Projekt: c:\Siemens\TRANSLINE 2000 HMI PRO RT 06.04	.00.06\ePSTest
Ziekechner z.B. \\PCU50	Meps-march/9
Realize Sauche Deutsch	Purchase Version: 05 04 00 05

- 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.

SINUMERIK Integrate Client
Welcome Modify, repair, or remove the program
Welcome to the SINUMERIK Integrate Client setup maintenance program. This program lets you modify the current installation. Click one of the options below Reconfigure
Reconfigure the current installation of SINUMERIK Integrate Client
Repair Reinstall all program features installed by the previous setup
Remove Remove all installed features Instal/Shield
< Back Next > Cancel

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

Repairing the client setup

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

SINUMERIK I	ntegrate Client 🛛 🔀
Welcome Modify, repa	ir, or remove the program
Welcome to program lets O Reconfig	the SINUMERIK Integrate Client V.4.7.0.18 setup maintenance program. This you modify the current installation. Click one of the options below aure
1	Reconfigure the current installation of SINUMERIK Integrate Client V.4.7.0.18
⊙ <u>Repair</u>	Reinstall all program features installed by the previous setup
O <u>R</u> emove	Remove all installed features
n ressine i fiolità	< <u>₿</u> ack <u>N</u> ext > Cancel

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

SINUMERIK Integrate Client	
Setup Status	
SINUMERIK Integrate Client V.4.7.0.18 is configuring your new software installation	l.
InstallShield	Cancel

3. Click "Finish" to complete the installation.



Removing the client setup

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

SINUMERIK In	tegrate Client 🛛 🛛 🗙
Welcome Modify, repai	r, or remove the program
Welcome to you modifyth ◯ Reconfig	the SINUMERIK Integrate Client setup maintenance program. This program lets ne current installation. Click one of the options below ure
	Reconfigure the current installation of SINUMERIK Integrate Client
() Repair	Reinstall all program features installed by the previous setup
Remove Remove InstallShield	Remove all installed features
nnayana nicita	< Back Next > Cancel

2. A confirmation prompt appears.

Confirm this message with "Yes" if an additional application is installed and you want to uninstall this application.

SINUMERIK Integrate Client
Do you want to completely remove the selected application and all of its features?
Yes No

 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.

Questio	n 🛛 🛛
?	Would you like to uninstall ServiceModeClient as well?
	Yes No

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

SINUMERIK Integrate Client	
Setup Status	
SINUMERIK Integrate Client is configuring your new software installation.	
Unregistering components	
InstallShield	Cancel

5. Click "Finish" to complete uninstalling.

SINUMERIK Integrate Client	N
	Uninstall Complete InstallShield Wizard has finished uninstalling SINUMERIK Integrate Client. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	K Back. Finish Cancel

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.
- 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.

SINUMERIK Integrate Client	
License Agreement Please read the following license agreement carefully.	linis).
General Conditions for Application Service Providing (ASP) of Siemens AG, Automation and Drives	<u>^</u>
Siemens AG, Automation and Drives (hereinafter called "Siemens") provides Application Service Providing Services in the area of industrial automation. Siemens provides the contract partner (hereinafter called "the Customer") with services exclusively subject to the following provisions. General terms and conditions of the Customer shall apply only insofar as such conform with the present conditions or if expressly accepted by Siemens in writing. The nature and extent of the services to be provided (hereinafter called "ePS Network Services") are based on the order confirmation /ASP certificate. Insofar as Siemens procures the services of third parties in individual cases for the Customer, in such case a contractual arrangement shall exist	~
 I accept the terms of the license agreement ☐ I do not accept the terms of the license agreement 	
InstallShield < <u>B</u> ack Canc	el

- 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 >".

SINUMERIK Integrate Client	
Installation mode	anting Anting
Please specify installation mode	
⊙ Standard mode	
 Expert mode (with additional installation options) 	
InstallShield	
< <u>Back</u> <u>Next</u> >	Cancel



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



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

SINUMERIK Integrate Client	
Controller configuration	
Please select your controller	
 SINUMERIK SIMATIC Industrial PC 	
InstallShield	< <u>B</u> ack <u>N</u> ext> Cancel

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 >".

SINUMERIK Integrate Client		
Reconfigurable parameters		
Please select the parameters you wish to recon	figure	
Internet proxy configurations		
InstallShield		
	< <u>B</u> ack <u>N</u> ext>	Cancel

- 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.

SINUMERIK	Integrate Client		
Choose D Select fo	Vestination Location Ider where setup will install files.		and the second second
	Install SINUMERIK Integrate Client V.0.0.0.00to: C:\Siemens\Sinumerik\HMI-Advanced\add_on		Change
InstallShield –	< <u>B</u> ack	<u>N</u> ext >	Cancel

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)

SINUMERIK Integrate Client	
Reconfigurable parameters	AN A
Please select the parameters you wish to reconfigure SINUMERIK Integrate URLs Internet proxy configurations Generic Driver Support Data transfer area and logging settings	
Data transfer area location Log directory location Bootscript download strategy SINUMERIK Integrate Client startup parameters	
InstallShield	Cancel

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

SINUMERIK I	ntegrate Client	
SINUMERIK	Integrate URL configuration	and the second s
Please ente	r SINUMERIK Integrate URLs	
IAC		
MHComm	[
InstallShield ——	< <u>₿</u> ack <u>N</u> ext :	Cancel

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

SINUME	RIK Integrate Client 🛛 🔀
٩	Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!
	ОК

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".

Internet Properties		
General Security Privacy Content Connections Programs Advanced		
Home page		
To create home page tabs, type each address on its own line.		
Use <u>current</u> Use de <u>f</u> ault Use <u>b</u> lank		
Browsing history		
Delete temporary files, history, cookies, saved passwords, and web form information.		
Delete browsing history on exit		
Delete Settings		
Search		
Change search defaults. Settings		
Tabs		
Change how webpages are displayed in <u>Settings</u> tabs.		
Appearance		
Colors Languages Fonts Accessibility		
OK Cancel Apply		

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

SINUMERIK Integrate Client	
Detected internet connection settings	
Are these internet connection settings correct?	
Current Settings:	
Proxy server enabled: OFF Automatic proxy configuration script: OFF Automatically detect settings: OFF	
3	
InstallShield	
< <u>B</u> ack	<u>N</u> ext > Cancel

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.

SINUMERIK Integrate Client			
Detected Internet Security Settings			
Warning! As recommended in the Installation Guide, these Internet Explorer settings must be enabled:			
Download signed ActiveX controls Not enabled Use TLS 1.0 Not enabled			
< >			
Setup can fix the internet security settings or you can continue and install the product at your own risk, but some features may work incorrectly.			
Fix internel security settings InstallShield			
< <u>B</u> ack <u>Next</u> > Cancel			

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

SINUMERIK Integrate Client		
Generic Driver Support Please add or remove a generic	driver	alan -
New driver support Available Driver Name Identifier (ProgID or CLSID)	DPC driver	
Existing driver support		Add
InstallShield —	< <u>B</u> ack	Next > Cancel

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.

SINUMERIK Integrate Client	
Data transfer area location	- Aller
Please specify location for the data transfer area (Note that network drives c specified here)	annot be
Destination Folder C:\\Sinumerik\HMI-Advanced\add_on\tmp\MhDts	Browse
InstallShield <u>Back</u> <u>Next></u>	Cancel

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.

SINUMERIK Integrate Client	
Data transfer backup area location	
Please specify the location for the data transfer backup area (Note that netw cannot be specified here)	vork drives
Destination Folder C:\\HMI-Advanced\add_on\tmp\MhDtsTmp	Browse
< Back Next >	Cancel

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.

SINUMERIK Integrate Client	
Log diretory location	
Please specify the location for the log directory (Note that network drives cannot be specified here)	
Destination Folder	
C:\\Sinumerik\HMI-Advanced\add_on\MH\log	
InstallShield	
< <u>B</u> ack <u>N</u> ext > C.	ancel

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 >".

SINUMERIK Integrate Client	
Data transfer area and logging settings Please configure the settings for machinehandler data transfer and logging	
Data transfer area settings Maximum size for machinehandler data transfer area (0-2000 MB) Maximum size (MB): 100 Maximum number of files for machinehandler data transfer area Maximum files:	
Log settings Enable limiting number of files for logging Maximum files: InstallShield	Cancel

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

Click "Next >".

SINUMERIK Integrate Client	×
Bootscript download strategy Please specify the SINUMERIK Integrate Client bootscript download strategy	
Specify the bootscript download strategy	
Offline mode ON, no repeated attempts to download the bootscript from the server	
\bigcirc Offline mode OFF, the client performs repeated attempts to download the bootscript from the server	1
Offline mode OFF, no repeated attempts to download the bootscript from the server	
InstallChield	
< <u>B</u> ack <u>Next</u> > Cancel	

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

INUMERIK Integrate Client	Σ
Startup parameter configuration	The second se
Fledse Coningure startup parameters	- and the second se
Deferred startup of SINUMERIK Integrate Clie	nt
Delay of the startup of the SINUM	IERIK Integrate Client on the machine (sec) 0-300
Slow internet connection	
Configure SINUMERIK Integrate to use	e a slow internet connection
Start of SINUMERIK Integrate Client	
Activate services	
Automatically start SINUMERIK Integra	ate Client on the machine at startup
Suppress splash screen on startup	
13(8)0711210	

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 >".

SINUMERIK Integrate	Client		
Time master settings Please configure time r and TimeReadOK is re	for the machine naster settings for the HI levant only if you choos	MI. Settings for TimeAdj e to configure HMI as tir	ustInterval ne master
Time master settings	naster		
TimeAdjustInterval	3600]	
TimeReadOK	300]	
InstallShield ————		(<u>B</u> ack)	ext > 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.

SINUMERIK Integrate Client	×
Start copying files	
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.	
Current Settings:	
Prepare SINUMERIK Integrate Client installation for Series start-up OFF Assign to: Level 1 Softkey 8 SINUMERIK Integrate URL for the IAC: https://www.epsnetwork.com/Services/HMI/ SINUMERIK Integrate URL for the MHComm: https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx SINUMERIK Integrate URL for render server: https://render.epsnetwork.com/IERenderService/HandshakeService.asmx	
InstallShield	
< <u>B</u> ack Next > Cancel)

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".

SINUME	RIK Integrate Client 🛛 🛛 🔀
٩	The system will be restarted now to complete the installation.
	ОК

3.5 Workstation PC

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 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.

Fernzugriff ak	tualisieren			SIEMENS	
Home Störun	pdienste				Exit
Machine: TestMach	ine; Siemens; -				
The update is down	leaded in the backgroun	d			
(i) This can	take several minutes				
~			 		

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

Fernzugriff aktualisieren	SIEMENS	
Home Störungsdienste		Exit
	- 1	
Nachine: TestMachine; Siemens; -		
File was downloaded	_	
The file was successfully downloaded to the machine. Reboot the PCU to activate the changes.		
		OK
<u> </u>		
Home Maint. services		

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

 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.

Windows Installer	
Preparing to remove	
UG	Ν
	6
	Cancel

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.

Fault services	SIEMENS	
Home		Exit
Machine: TestMachine; Siemens; -		
Report fault		Select
Report fault and request remote access		
Remote access		Select
Enter service number and use remote access		
		Update ASC-MO
		Update teleservice
Home		Help

4. 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.



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

Fernzugriff aktualisieren				SIEMENS	
Home Störungsdienste					Exit
Nachine: TestMachine; Siemens; -					_
File was downloaded					
The file was successfully download	ed to the machine. Reboo	ot the PCU to activate (the changes.		
					or
					UK
^				 	
Home Maint. services					

6. 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.

Fault service	s			SIEMENS	
Home					Exit
Machine: TestMac	hine; Siemens; -				
Depart (ault					
Report fault					Select
Report fault and re	quest remote acce	88			
Remote access	er and use remote	access			Select
					Update ASC-MO
					Update teleservice
Home					Help

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.

Fernzugriff aktualisieren	SIEMENS	
Itome Störungsdienste	-	Exit
Machine: TestMachine; Siemens; -		
Classes downloaded		
The file was successfully downloaded to the machine. Reboot the PCU to activate the changes.		
		_
		OK
Home Maint. services		

6. 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 >".

SINUMERIK In	ntegrate Client 🛛 🛛 🔀
Welcome Modify, repa	ir, or remove the program
Welcome to you modify th	the SINUMERIK Integrate Client setup maintenance program. This program lets he current installation. Click one of the options below
 Reconfig 	jure
1	Reconfigure the current installation of SINUMERIK Integrate Client
O Repair	Reinstall all program features installed by the previous setup
O Remove	Remove all installed features
119901011010	< Back Next > Cancel

- 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 >".

SINUMERIK Integrate Client	
Installation mode	- strange
Please specify installation mode Standard mode Expert mode (with additional installation options)	
InstallShield <u>Back Next ></u>	Cancel

- 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 >".	
SINUMERIK Integrate Client	
Additional Products	
Please specify if additional products should be installed/deinstalled	
 Access MyMachine for HMI Advanced Client Access MyMachine Service Client 	
InstallShield	Cancel

- 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.

SINUMERIK Integrate Client	×
Additional Products	
Would you like to prepare your SINUMERIK Integrate Client installation for ghost deployment?	
NO - Do not prepare SINUMERIK Integrate Client for Series start-up	
○ YES - Prepare SINUMERIK Integrate Client for Series start-up	
te se ll'Objetat	
<pre>// Back Next > Cancel</pre>	ו
	5

-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.

SINUMERIK Integrate Client	<
Reconfigurable parameters	
Would you like to prepare your SINUMERIK Integrate Client installation for ghost deployment?	
○ NO - Do not prepare SINUMERIK Integrate Client for Series start-up ③YES - Prepare SINUMERIK Integrate Client for Series start-up	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

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.

Question	ı
2	The machine identity will be deleted from the Windows Registry.
~	The content of the following directories will also be deleted:
	C:\Siemens\Sinumerik\HMI-Advanced\add_on\tmp\MhDts C:\Siemens\Sinumerik\HMI-Advanced\add_on\tmp\MhDtsTmp C:\Siemens\Sinumerik\HMI-Advanced\add_on\MH\log C:\tmp C:\Siemens\Sinumerik\HMI-Advanced\add_on\MH\OOH
	Do you wish to countinue?
	Yes No

9. The "Reconfigurable Parameters" window opens.

A precise description of the configuration options can be found in Chapter Configuring userspecific parameters - expert mode (Page 65)

SINUMERIK Integrate Client	×
Reconfigurable parameters	~
Please select the parameters you wish to reconfigure	
HMI Softkey to start the product on the machine	
SINUMERIK Integrate URLs	
Internet proxy configurations	
🔲 Generic Driver Support	
Data transfer area and logging settings	
🔲 Data transfer area location	
Log directory location	
Bootscript download strategy	
SINUMERIK Integrate Client startup parameters	
Time master settings	
InstallShield	
< <u>B</u> ack <u>N</u> ext> Cancel	

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.asmx

Web service: https://www.epsnetwork.com/Services/MHC/MHComm.asmx

SIN Er	IUMERIK Integrate URL configuration nter requested data.	
Ple	ease enter SINUMERIK Integrate URLs	
Di	isplay home page:	
	https://www.epsnetwork.com/Services/HMI/	
Re	ender service:	
	https://render.epsnetwork.com/IERenderService/HandshakeService	e.asmx
W	/eb service:	

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.

Next>

Cancel

 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

< Back

 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 IAC: https://www.epsnetwork.com/services/HMI/ IAC: MHComm: https://www.epsnetwork.com/Services/MHC/MHComm.asmx

Click "Next >" to continue.

SINUMERIK I	ntegrate Client	8 🛛
SINUMERII	K Integrate URL configuration	N.S.
Please ente	er SINUMERIK Integrate URLs	
IAC	https://www.epsnetwork.com/Services/HMI/	
MHComm	https://www.epsnetwork.com/Services/MHC/Mhcomm.a	smx
InstallShield —	< <u>B</u> ack	t > Cancel

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

SINUME	RIK Integrate Client
٩	Please check internet proxy settings, the product use them to connect to the SINUMERIK Integrate Servers!
	ОК

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

Internet Properties			
General Security Privacy Content Connections Programs Advanced			
Home page			
To create home page tabs, type each address on its own line.			
Use <u>current</u> Use de <u>f</u> ault Use <u>b</u> lank			
Browsing history			
Delete temporary files, history, cookies, saved passwords, and web form information.			
Delete browsing history on exit			
Delete Settings			
Change search defaults. Settings			
Tabs Change how webpages are displayed in Se <u>t</u> tings tabs.			
Appearance			

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

Click "< Back" to correct the settings. Click "Next >" to continue.

SINU	MERIK Integrate Client	
De	tected internet connection settings	
Δ	re these internet connection settings correct?	
c	iurrent Settings:	
F A A	Proxy server enabled: OFF Automatic proxy configuration script: OFF Automatically detect settings: OFF	
	<u><</u>	>
Install	Ghield	Cancel

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.

SINUMERIK Integrate Client	×		
Detected Internet Security Settings			
Warning! As recommended in the Installation Guide, these Internet Explorer settings must be enabled:			
Download signed ActiveX controls Not enabled Use TLS 1.0 Not enabled			
٤			
Setup can fix the internet security settings or you can continue and install the product at your own risk, but some features may work incorrectly.			
Fix internel security settings InstallShield			
<u>Back</u> <u>Next</u> Cancel			

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

SINUMERIK Integrate Client		
Generic Driver Support Please add or remove a generic	driver	alan - second
New driver support Available Driver Name Identifier (ProgID or CLSID)	DPC driver	
Existing driver support		Add
InstallShield —	< <u>B</u> ack	Next > Cancel

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.

SINUMERIK Integrate Client	X
Data transfer area location	
Please specify location for the data transfer area (Note that network drives cannot be specified here)	
Destination Folder C:\\Sinumerik\HMI-Advanced\add_on\tmp\MhDts InstallChield]
Instalionielo	

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.

SINUMERIK Integrate Client	×
Data transfer backup area location	
Please specify the location for the data transfer backup area (Note that network drives cannot be specified here)	
Destination Folder C:\\HMI-Advanced\add_on\tmp\MhDtsTmp InstallChield	
(<u>Back</u> <u>N</u> ext) Cancel	

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.

SINUMERIK Integrate Client	
Log diretory location	
Please specify the location for the log directory (Note that network drives ca specified here)	nnot be
Destination Folder C:\\Sinumerik\HMI-Advanced\add_on\MH\log	Browse
InstallShield	Cancel

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 >".

SINUMERIK Integrate Client	
Data transfer area and logging settings Please configure the settings for machinehandler data transfer and logging	
Data transfer area settings Maximum size for machinehandler data transfer area (0-2000 MB) Maximum size (MB): 100 Maximum number of files for machinehandler data transfer area Maximum files: 5000	
Log settings □ Enable limiting number of files for logging Maximum files: InstallShield < <u>B</u> ack <u>N</u> ext >	Cancel

20. The "Boot Script Download Strategy" window opens.

You can select one of three different strategies for the download Click "Next >".

SINUMERIK Integrate Client	×		
Bootscript download strategy Please specify the SINUMERIK Integrate Client bootscript download strategy			
Specify the bootscript download strategy			
Offline mode ON, no repeated attempts to download the bootscript from the server			
${\rm O}$ Offline mode OFF, the client performs repeated attempts to download the bootscript from the server			
Offline mode OFF, no repeated attempts to download the bootscript from the server			
InstallChield			
< <u>B</u> ack <u>Next</u> > Cancel			

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

SINUMERIK Integrate Client	×
Startup parameter configuration Please configure startup parameters	
Deferred startup of SINUMERIK Integrate Client Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300	
Slow internet connection	
Start of SINUMERIK Integrate Client Start of SINUMERIK Integrate Client Activate services Automatically start SINUMERIK Integrate Client on the machine at startup Suppress splash screen on startup	
InstallShield <u>< B</u> ack <u>N</u> ext > 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 >".

SINUMERIK Integrate	Client			
Time master settings for the machine Please configure time master settings for the HMI. Settings for TimeAdjustInterval and TimeReadDK is relevant only if you choose to configure HMI as time master				
Time master settings	naster			
TimeAdjustInterval	3600]		
TimeReadOK	300]		
InstallShield		(<u>B</u> ack)	lext >	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.

SINUMERIK Integrate Client	×			
Start copying files				
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.				
Current Settings:				
Prepare SINUMERIK Integrate Client installation for Series start-up OFF Assign to: Level 1 Softkey 8 SINUMERIK Integrate URL for the IAC: https://www.epsnetwork.com/Services/HMI/ SINUMERIK Integrate URL for the MHComm: https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx SINUMERIK Integrate URL for render server: https://render.epsnetwork.com/IERenderService/HandshakeService.asmx				
InstallShield				
< <u>B</u> ack Next > Cancel)			

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".

SINUME	RIK Integrate Client 🛛 🛛 🔀
٩	The system will be restarted now to complete the installation.
	ОК

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.

4. 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 >".

SINU	IMERIK Int	legrate Client 🛛 🔀		
W	e lcome Iodify, repair,	, or remove the program		
V y	Welcome to the SINUMERIK Integrate Client setup maintenance program. This program lets you modify the current installation. Click one of the options below Reconfigure			
	B	Reconfigure the current installation of SINUMERIK Integrate Client		
() Repair	Reinstall all program features installed by the previous setup		
Instal	Remove	Remove all installed features		
		< Back Next > Cancel		

5. A confirmation prompt appears.

Confirm the message with "OK" to start the uninstallation.

SINUMERIK Integrate Client
Do you want to completely remove the selected application and all of its features?
Yes <u>N</u> o

6. You obtain an additional confirmation prompt as to whether you wish to uninstall the Service Mode Client.

Click "Yes" to start this operation.

Questio	n 🛛 🛛
2	Would you like to uninstall ServiceModeClient as well?
	Yes No

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

SINUMERIK Integrate Client	
Setup Status	
SINUMERIK Integrate Client is configuring your new software installation.	
Unregistering components	
]
InstallShield	Cancel

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

Click "Finish" to complete the uninstallation.

SINUMERIK Integrate Client	N		
	Uninstall Complete InstallShield Wizard has finished uninstalling SINUMERIK Integrate Client. ✓ Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.		
	K Back Finish Cancel		

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 >".

SINUMERIK In	ntegrate Client	×		
Welcome Modify, repa	ir, or remove the program			
Welcome to you modify th	Welcome to the SINUMERIK Integrate Client setup maintenance program. This program lets you modify the current installation. Click one of the options below			
 Reconfig 	ure			
B	Reconfigure the current installation of SINUMERIK Integrate Client			
⊖ Repair	Reinstall all program features installed by the previous setup			
O Remove	Remove all installed features			
	< Back Next > Cancel			

- 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 >".

SINUMERIK Integrate Client	
Installation mode	
Please specify installation mode	
InstallShield	Cancel

- OR -

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

SINUMERIK Integrate Client	
Installation mode	- Aller
Please specify installation mode	
 Standard mode Expert mode (with additional installation options) 	
InstallShield <u>Back</u>	Next > Cancel

 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 >".

SINUMERIK Integrate Client	
Additional Products	
Please specify if additional products should be	e installed/deinstalled
Access MyMachine Service Client	
InstallShield	
	<pre></pre>

- 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.

SINUMERIK Integrate Client		
Additional Products		
Would you like to prepare your SINUMERIK Integrate Client installation for ghost de	ployment?	
● NO - Do not prepare SINUMERIK Integrate Client for Series start-up		
○ YES - Prepare SINUMERIK Integrate Client for Series start-up		
InstallShield		
< <u>Back</u>	Cancel	

-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.

SINUMERIK Integrate Client	X
Reconfigurable parameters	
Would you like to prepare your SINUMERIK Integrate Client installation for	ghost deployment?
NO - Do not prepare SINUMERIK Integrate Client for Series start-up	
TES - Prepare SINUMERIA Integrate Client for Series start-up	
InstallChield	
< <u>B</u> ack <u>N</u> ext	Cancel

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.

Questio	n 🛛 🕹
2	The machine identity will be deleted from the Windows Registry.
~	The content of the following directories will also be deleted:
	C:\Siemens\Sinumerik\HMI-Advanced\add_on\tmp\MhDts C:\Siemens\Sinumerik\HMI-Advanced\add_on\tmp\MhDtsTmp C:\Siemens\Sinumerik\HMI-Advanced\add_on\MH\log C:\tmp C:\Siemens\Sinumerik\HMI-Advanced\add_on\MH\OOH Do you wish to countinue?

9. The "Reconfigurable Parameters" window opens.

A precise description of the configuration options can be found in Section: Configuring userspecific parameters - expert mode (Page 65).

SINUMERIK Integrate Client		
Reconfigurable parameters		
Please select the parameters you wish to reco SINUMERIK Integrate URLs Internet proxy configurations Generic Driver Support	onfigure	
Data transfer area location Data transfer area location Log directory location Bootscript download strategy Otherwise Directory		
SINUMERIK Integrate Client startup parar	neters	Cancel

- 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.

SINUMERIK I	ntegrate Client 📕 🔀
SINUMERIN	K Integrate URL configuration
Please ente	r SINUMERIK Integrate URLs
IAC	https://www.epsnetwork.com/Services/HMI/
MHComm	https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx
InstallShield —	< <u>B</u> ack <u>N</u> ext > Cancel

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.Use the connection in your company network that has already been set up and click "OK".

Internet Properties ? 🔀
General Security Privacy Content Connections Programs Advanced
Home page To create home page tabs, type each address on its own line.
Use <u>c</u> urrent Use de <u>f</u> ault Use <u>b</u> lank
Browsing history
Delete temporary files, history, cookies, saved passwords, and web form information.
Delete browsing history on exit
Delete Settings
Change search defaults. Settings
Tabs Change how webpages are displayed in Se <u>t</u> tings tabs.
Appearance
OK Cancel Apply

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

SINUMERIK Integrate Client	
Detected internet connection settings	
Are these internet connection settings correct? Current Settings:	
Proxy server enabled: OFF Automatic proxy configuration script: OFF Automatically detect settings: OFF	
	>
InstallShield	Next > Cancel

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.

SINUMERIK Integrate Client		
Detected Internet Security Settings		
Warning! As recommended in the Installation Guide, these Internet Explorer settings must be enabled:		
Download signed ActiveX controls Not enabled Use TLS 1.0 Not enabled		
Setup can fix the internet security settings or you can continue and install the product at your own risk, but some features may work incorrectly.		
Fix internel security settings InstallShield		
< <u>B</u> ack <u>Next</u> > Cancel		

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

SINUMERIK Integrate Client		
Generic Driver Support Please add or remove a generic	driver	alan - second
New driver support Available Driver Name Identifier (ProgID or CLSID)	DPC driver	
Existing driver support		Add
InstallShield —	< <u>B</u> ack	Next > Cancel

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.

SINUMERIK Integrate Client	X
Data transfer area location	
Please specify location for the data transfer area (Note that network drives cannot be specified here)	
Destination Folder C:\\Sinumerik\HMI-Advanced\add_on\tmp\MhDts InstallChield]
Instalionielo	
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.

SINUMERIK Integrate Client	
Data transfer backup area location	- states
Please specify the location for the data transfer backup area (Note that netv cannot be specified here)	vork drives
Destination Folder C:\\HMI-Advanced\add_on\tmp\MhDtsTmp	Browse
< Back Next >	Cancel

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.

SINUMERIK Integrate Client	
Log diretory location	
Please specify the location for the log directory (Note that network drives ca specified here)	innot be
Destination Folder	
C:\\Sinumerik\HMI-Advanced\add_on\MH\log	Browse
InstallShield	
< <u>B</u> ack Next>	Cancel

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 >".

SINUMERIK Integrate Client	
Data transfer area and logging settings Please configure the settings for machinehandler data transfer and logging	
Data transfer area settings Maximum size for machinehandler data transfer area (0-2000 MB) Maximum size (MB): 100 Maximum number of files for machinehandler data transfer area Maximum files:	
Log settings Enable limiting number of files for logging Maximum files: InstallShield < <u>Back</u> Next>	Cancel

20. The "Boot Script Download Strategy" window opens.

You can select one of three different strategies for the download Click "Next >".

SINUMERIK Integrate Client	×	
Bootscript download strategy Please specify the SINUMERIK Integrate Client bootscript download strategy		
Specify the bootscript download strategy		
Offline mode ON, no repeated attempts to download the bootscript from the server		
\bigcirc Offline mode OFF, the client performs repeated attempts to download the bootscript from the server		
Offline mode OFF, no repeated attempts to download the bootscript from the server		
InstallShield		
< <u>B</u> ack Next> Cancel		

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

SINUMERIK Integrate Client
Startup parameter configuration Please configure startup parameters
Deferred startup of SINUMERIK Integrate Client
Delay of the startup of the SINUMERIK Integrate Client on the machine (sec) 0-300
Slow internet connection
Configure SINUMERIK Integrate to use a slow internet connection
Start of SINUMERIK Integrate Client
✓ Activate services
Automatically start SINUMERIK Integrate Client on the machine at startup
Suppress splash screen on startup
InstallShield
< <u>B</u> ack Next > 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 >".

SINUMERIK Integrate	Client			
Time master settings Please configure time r and TimeReadOK is re	for the machine naster settings for the HI levant only if you choos	MI. Settings for 1 e to configure HI	⊺imeAdjustInterva MI as time master	and the second s
Time master settings	master			
TimeAdjustInterval	3600]		
TimeReadOK	300]		
InstallShield ————		< <u>B</u> ack	<u>N</u> ext >	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.

SINUMERIK Integrate Client
Start copying files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Prepare SINUMERIK Integrate Client installation for Series start-up OFF Assign to: Level 1 Softkey 8 SINUMERIK Integrate URL for the IAC: https://www.epsnetwork.com/Services/HMI/ SINUMERIK Integrate URL for the MHComm: https://www.epsnetwork.com/Services/MHC/Mhcomm.asmx SINUMERIK Integrate URL for render server: https://render.epsnetwork.com/IERenderService/HandshakeService.asmx
InstallShield

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

SINUMERIK Integrate Clien	L 🚽
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on SINUMERIK Integrate Client V.0.0.0.00.
	< Back Finish Cancel

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.

Versionsupdate
Der nötige Software ist noch nicht installiert! Drücken Sie 'OK' um die Installation zu starten.
Bitte schließen Sie anschließend alle Fenster des Internet-Explorers.
ок

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.

File Down	load - Security Warning 🛛 🗙
Do you	want to run or save this file?
	Name: setup.exe Type: Application, 66,6MB From: alpha.epsnetwork.com
	<u>R</u> un <u>S</u> ave <u>Cancel</u>
۲	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. <u>What's the risk?</u>

- 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.

Internet	Explorer - Security Warning		×
Do you	want to run this software?		
	Name: setup.exe		
	Publisher: Siemens AG		
× Mor	re <u>o</u> ptions	Run	Don't Run
١	While files from the Internet can be us your computer. Only run software from	eful, this file type ca n publishers you trus	n potentially harm t. <u>What's the risk?</u>

4. The InstallShield wizard is started and displays which further Windows updates you require:

Install

Cancel

- Visual C++Redistributable 2015
- Microsoft .NET Framework 4.6.2

Click "Install" to start the pending updates. Visual C++Redistributable 2015 is installed first.

Access MyMachine Service Client - InstallShield Wizard
Access MyMachine Service Client requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status Requirement
Pending Visual C++ Redistributable 2015
Pending Microsoft .NET Framework 4.6.2

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



6. 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.

🖁 Access MyMachine Service Client			×
License Agreement Please read the following license agreer	ment carefully.		2
General Conditions for Application Se Automation and Drives	ervice Providii	ng (ASP) of Siemen	is AG,
Siemens AG, Automation and Drives (herei Providing Services in the area of industrial Siemens provides the contract partner (he exclusively subject to the following provisio shall apply only insofar as such conform wi by Siemens in writing. The nature and exter "ePS Network Services") are based on the Siemens procures the services of third part case a contractual arrangement shall exist parties subject to the business conditions a	nafter called "Sie automation, reinafter called " ons, General terr th the present c ent of the service order confirmati ties in individual exclusively betw agreed between	emens") provides Appl the Customer") with s ms and conditions of ti onditions or if express es to be provided (her on /ASP certificate. In cases for the Customer and those parties.	ication Service ervices he Customer dy accepted reinafter called isofar as er, in such id the third
I accept the terms in the license agreement Print			
C I $\underline{d}o$ not accept the terms in the license	agreement		
	< <u>B</u> ack	<u>N</u> ext >	Cancel

9. Select the installation directory.

Click "Next >" to accept the directory suggested by setup. - OR -

Click "Change..." to change the installation directory.

👘 Access N	1yMachine Service Client 🛛 🔀
Destinati Click Nex	ion Folder kt to install to this folder, or click Change to install to a different folder.
	Install Access MyMachine Service Client to: C:\Program Files\Siemens\RANG SMC\
	< <u>B</u> ack <u>Next</u> Cancel

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.dl
- 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

- The "Add or Remove Programs" window opens. Select the setup "AMM/E Service Client SE" and click "Remove".
- 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

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	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 dis- played in the login window.			

Procedure

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

Click "Cancel" to reject the settings.

🚧 Login settings		×		
Server Selection - AMM-Server:	remoteaccess	.epsnetwork.com		
User role O Service engineer O Machine operator				
User access data				
My registered	User name:	Serviceingenieur		
user data.	Password:	•••••		
	Organization:	epsinternal		
		Remember password		
Session number				
Cancel				

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	
Remote/network drives	access. If no drive type is selected, the service engineer may only access the available hard drives.	

Procedure

- 1. Call "Settings" > "File transfer..." in the menu bar. The "File Transfer Settings" window opens.
- 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.

🔤 File transfer settings
Temporary files
Max. filesize [Kbytes]:
100000
Additional drive types Removable Medias (e.g. floppy drive, flash drive or USB stick) Remote/Network drives
Cancel

5.3 Setting the file transfer

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.
- 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.

•••• Find directory	6	×
Choose directory:		
A: C: B: NAS-Data1 (H:)		
Create directory	Cancel	

5.4 Entering the address of a proxy server

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 In- ternet.
	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 set- tings	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.
- 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.

٩M	Proxy settings		—	
	Configuration O Do not use a pro: O Automatically det	<pre> vy (direct connection) ect proxy settings v settings</pre>	Internet options	
	Use Manufacturing IT client proxy settings Use automatic configuration script:			
	Address:)		
	Server:		Port:	
	Use these proxy User name:	credentials:		
	Password:			
	Remember authentication data			
		6	Cancel OK	

5.5 Setting/changing the language

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.



Configuring ASC-SE/ASC-MO

5.5 Setting/changing the 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.
- Click "OK" to save the selection.
 OR -

Click "Cancel" to reject the selection.

🚾 Toggle language 🛛 💌				
Select languages				
German				
English				
French				
🔲 Italian				
Spanish				
Chinese				
Cancel				

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
Configu	ration	
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 leve	əl	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.
- 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.

41/	🛚 Logging	settings	×
	Configurat	tion	Enable diagnosis logging
	Location:	C:/temp/AMM_SC/log	
	Max. filesi:	ze [Kbytes]: 200	Loglevel: Debug5 💌
			Cancel

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.
- 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.
- 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.

epsinternal	
Organization password	epsinternal
Software version	4 •
Remote access via Access MyMachine / settings	☑ Screen release ☑ File transfer
	Step7 via Internet Seconds Waiting time until being informed that establishment of the connection has failed.
	Automatic recording of session

Configuring ASC-SE/ASC-MO

5.7 Activating functions

Appendix

A

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
ВА	Operating instructions
CAM	Computer-Aided Manufacturing
CF card	CompactFlash Card: Memory card
CNC	Computerized Numerical Control:
CoL	Certificate of License
СОМ	Communication
СОМ	Component Object Protocol (programming model of Microsoft®)
CU	Control Unit
СР	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
НМІ	Human Machine Interface: SINUMERIK user interface
HD	Hard Disk: Hard disk
НТТР	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
СТ	Circularity Test
МВ	Megabyte
MCIS	Motion Control Information System
MCIS MDA	MCIS Machine Data Aquisition: Machine data management
МСР	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
ММТ	Manage MyTools
МО	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
ОВ	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 standardi- zation)
PCU	PC Unit: Computer unit
PG	Programming device
PDA	Production Data Acquisition: Production data acquisition
PLC	Programmable Logic Control: PLC

Appendix

A.1 List of abbreviations

РМТ	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
ТС	Teamcenter
ТСР	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
Т	Tool
TLC	Tool Length Compensation
WOP	Workshop-Oriented Programming
WPD	Work Piece Directory: Workpiece directory
TRC	Tool Radius Compensation
WSDL	Web Services Description Language
Т	Tool
ТО	Tool Offset
MT	Machine Tool
ТМ	Tool Management
ТС	Tool Change
XML	Extensible Markup Language

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