SIEMENS

SIMOTION

SIMOTION References - Overview of the SIMOTION Documentation

Catalog

02/2012

Legal information

Warning notice system

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

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

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

⚠ CAUTION
with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.

CAUTION
without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.

NOTICE
indicates that an unintended result or situation can occur if the relevant information is not taken into account.

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

Qualified Personnel

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

Proper use of Siemens products

Note the following:

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

Trademarks

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

Disclaimer of Liability

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

Preface

Range of validity

These references are for SIMOTION V4.3.

SIMOTION Documentation

An overview of the SIMOTION documentation can be found in this separate list of references.

This documentation is supplied in electronic format with SIMOTION SCOUT.

The SIMOTION documentation consists of ten documentation packages containing SIMOTION documents and documents on related systems, e.g. SINAMICS.

The documentation packages are organized according to functionality and contents.

The following documentation packages are available for SIMOTION 4.3:

- SIMOTION Engineering System Handling
- SIMOTION System and Function Descriptions
- SIMOTION Service and Diagnostics
- SIMOTION IT
- SIMOTION Programming
- SIMOTION Programming - References
- SIMOTION C
- SIMOTION P
- SIMOTION D
- SIMOTION Supplementary Documentation

You will find further documents at:

- SIMOTION application (Page 25)
  This contains an overview of the SIMOTION applications
- Ordering information (Page 29)
  Information about catalogs for SIMOTION and other components
- Additional information for SIMOTION (Page 31)

Hotline and Internet addresses

Additional information

Click the following link to find information on the the following topics:

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

http://www.siemens.com/motioncontrol/docu

Please send any questions about the technical documentation (e.g. suggestions for improvement, corrections) to the following e-mail address:
docu.motioncontrol@siemens.com

My Documentation Manager

Click the following link for information on how to compile documentation individually on the basis of Siemens content and how to adapt this for the purpose of your own machine documentation:

http://www.siemens.com/mdm

Training

Click the following link for information on SITRAIN - Siemens training courses for automation products, systems and solutions:

http://www.siemens.com/sitrain

FAQs

Frequently Asked Questions can be found in SIMOTION Utilities & Applications, which are included in the scope of delivery of SIMOTION SCOUT, and in the Service&Support pages in **Product Support**:

http://support.automation.siemens.com

Technical support

Country-specific telephone numbers for technical support are provided on the Internet under **Contact**:

http://www.siemens.com/automation/service&support

Table of contents

SIMOTION Documentation

1

Overview of the SIMOTION documentation

The complete SIMOTION documentation is divided into various documentation packages and is contained on the SCOUT Documentation, Utilities & Applications DVD.

An initial overview is available as a short system overview for SIMOTION in the SIMOTION Description of System and Function Descriptions (Page 9) documentation package in the Basic Functions function manual.

Terms and abbreviations from the SIMOTION environment are described in the **SIMOTION Glossary** (see SIMOTION Engineering System Handling (Page 8) documentation package).

The search across all PDF documents of a selected language is possible using the **Start.pdf** or via the **SIMOTION_Index.pdx** contained in the documentation directory of the respective language.

Extensive information especially for the programming and commissioning of a **SIMOTION D** is contained in the commissioning manuals on the (SIMOTION D (Page 18) documentation package).

Example for beginners

Getting Started in the online help is recommended as an introduction to the configuration with SIMOTION.

A more detailed overview with appropriate instructions can be found in an example for beginners in the Utilities & Applications.
The **SIMOTION Utilities & Applications** are contained on the **SCOUT Documentation, Utilities & Applications** DVD.

You start the navigation by opening the **Start_Utilities&Applications.html** in the **Utilities_Applications** directory. The example with a comprehensive documentation can be found at **Examples > Example for beginners**.

1.1 SIMOTION Engineering System Handling

The documentation package contains documents that describe the handling of the SIMOTION Engineering System and the SIMOTION Cam Tool option package.

The documents of this documentation package are contained in the 1_Engineering_system_handling directory.

SIMOTION SCOUT, Configuration Manual   **Edition 02/2012**

Describes SIMOTION SCOUT, the SIMOTION engineering system

SIMOTION Terms and Abbreviations, Glossary   **Edition 11/2010**

SIMOTION CamTool, Configuration Manual   **Edition 11/2010**

Describes the easy-to-use cam tool

1.2 SIMOTION System and Function Descriptions

This documentation package contains descriptions for the basic functions of the SIMOTION system as well as the explanations for the technology objects (TO) and the communications topic.

The documents of this documentation package are contained in the 2_Description_of_system_and_functions directory.

Note

Additional information on system functions, system variables and configuration data is contained in the SIMOTION Programming - References (Page 14) documentation package.

SIMOTION Runtime Basic Functions, Function Manual　　　　Edition 02/2012

This documentation provides a short system overview for SIMOTION and describes the basic structure and the programming of the technology objects. The runtime system and the memory concept of the SIMOTION controllers are also described.

Motion Control, Electric/Hydraulic Axis and External Encoder Technology Edition 02/2012 Objects, Function Manual

Describes the operating principles of the speed, positioning, and hydraulic axes technology objects and the external encoder.

Motion Control, Synchronous Operation and Cam Technology Objects,　　Edition 02/2012 **Function Manual**

Describes the operating principles of the gearing and camming technology objects.

Motion Control, Path Interpolation Technology Objects, Function Manual　Edition 02/2012

Describes the functionality of the technology objects for path interpolation.

Motion Control Output Cam and Measuring Input, Function Manual　　Edition 02/2012

Describes the operating principles of the output cam, cam track, and measuring input technology objects.

Motion Control, Supplementary Technology Objects, Function Manual　　Edition 02/2012

Describes the operating principles of the fixed gear, addition object, formula object, sensor, controller object and temperature controller technology objects.

Motion Control, Basic Functions for Modular Machines, Description of Functions   Edition 02/2012

Describes the modular machines functionality in the SIMOTION and SINAMICS system.

SIMOTION Communication, System Manual   Edition 02/2012

Describes the communications capabilities for SIMOTION systems and also to devices outside the SIMOTION family, in particular, SIMATIC.

SIMATIC Communication with SIMATIC, System Manual   Edition 09/2006

Document identification number: EWA 4NEB 710 6075-01 04

SIMATIC PROFINET System Description, System Manual   Edition 07/2010

Document identification number: A5E00298287-05

1.3   SIMOTION Service and Diagnostics

This documentation package contains all information about the service and diagnostic functions of the system.

The documents of this documentation package are contained in the 3_Service_and_Diagnosis directory.

Overview of Service and Diagnostics Options, Product Information

Edition 11/2010

Overview of the options for system diagnostics for SIMOTION devices and references to other manuals and online helps.

Technology Packages Alarms, Diagnostics Manual

Edition 02/2012

Contains information on the alarms for the **Cam, Path, Cam_ext** and **TControl** technology packages.

The alarms are organized numerically under the technology packages (TP) according to technology object (TO).

Upgrading SIMOTION Devices, Operating Instructions

Edition 02/2012

Describes a simple way of exchanging the configuration or firmware of one or more SIMOTION devices using the Device Update tool.

Task Trace, Function Manual

Edition 11/2010

Describes the structure and handling of the SIMOTION Task Trace.

SIMOTION Project Comparison, Function Manual

Edition 02/2012

Describes the SCOUT Project Comparison function with which you can compare objects within a project or with objects from other projects (offline) or objects of the project with the connected target system (online).

1.4 SIMOTION IT

This documentation package contains all information about the Web functions for SIMOTION IT with which the machine manufacturer and user can perform commissionings as well as service and diagnostic tasks without engineering tools.

The documents of this documentation package are contained in the 3_SIMOTION_IT directory.

SIMOTION IT Diagnosis and Configuration, Diagnostics Manual   Edition 02/2012

Describes the diagnosis of the SIMOTION devices via the integrated Web
server.
Access is made with a standard browser (e.g. Firefox) via the
IP address of the SIMOTION device. You can use the standard diagnostic
pages or your own HTML pages for access.

SIMOTION IT Programming and Web Services, Programming Manual   Edition 02/2012

Describes the access to the diagnostic functions with Web services.
This function package comprises a Web service that permits the
connection of applications to a controller via the Internet and, for example
via OPC XML-DA, access to data and operating states in the SIMOTION
device.
Commands are transmitted via the SOAP (Simple Object Access
Protocol) communication protocol.
Additional description of the Trace via SOAP (TVS) function package that
permits variables from the environment of the SIMOTION variable
provider to be recorded.

SIMOTION IT Virtual Machine and Servlets, Programming Manual   Edition 02/2012

The Jamaica Virtual Machine (JamaicaVM) provides a runtime system
with which Java applications can be executed on the SIMOTION device.
It is an implementation of the **Java Virtual Machine Specification**.
The Servlets section of the documentation describes the use of servlets in
a Web container of a SIMOTION device.

1.5   SIMOTION Programming

This documentation package contains documents with the descriptions for the various programming languages and editors.

The documents of this documentation package are contained in the 3_Programming directory.

SIMOTION ST Structured Text Programming and Operating Manual   **Edition 02/2012**

Describes the text-based Structured Text SIMOTION programming language.

SIMOTION MCC Motion Control Chart Programming and Operating Manual   **Edition 02/2012**

Describes the graphics-based SIMOTION Motion Control Chart programming language.

SIMOTION LAD/FBD Programming and Operating Manual   **Edition 02/2012**

Describes the graphics-based Ladder Diagram
(LAD) and Function Block Diagram
(FBD) SIMOTION programming languages.

SINAMICS/SIMOTION DCC Editor Description, Programming and Operating Manual   **Edition 02/2012**

Describes the graphics-based Drive Control Chart Editor (DCC editor) based on CFC. Graphics-based configuration of SIMOTION controllers and SINAMICS drives is possible.

1.6 SIMOTION Programming - References

The following documents are reference lists required for the programming of the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages as well as the **SIMOTION devices**.

The documents of this documentation package are contained in the 3_Programming_reference_lists directory.

System Functions/Variables Devices, List Manual	Edition 02/2012

Describes the system functions/variables for the **SIMOTION C**, **P** and **D** hardware platforms.

Technology Packages System Functions, List Manual	Edition 02/2012

Describes the system functions for the **Cam_ext** and **TControl technology packages** (TP).
TP **Cam** and TP **Path** are part of TP **Cam_ext**.

The List Manual is organized based on the structure of the SIMOTION SCOUT command library.

The command library is located in the tab of the same name in the project navigator of SIMOTION SCOUT. The system functions are listed in the **PLCopen** and **Technology** folders there.

The list of reserved identifiers can be found in the SIMOTION Basic Functions manual (Page 9)(see SIMOTION System and Function Description document package).

Technology Packages Configuration Data, List Manual	Edition 02/2012

Describes the configuration data for the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages.

The configuration data is listed as follows:
Under the technology packages (TP), in alphabetical order according to technology object (TO).

Technology Packages System Variables, List Manual	Edition 02/2012

Describes the system variables for the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages.

The system variables are listed as follows:

Under the technology packages (TP), in alphabetical order according to technology object (TO).

The following documents contain descriptions of other **function blocks** from the **SIMOTION SCOUT command library**.

PLCopen Blocks, Function Manual	Edition 02/2012

Describes the PLCopen blocks for motion control programming from a cyclic PLC viewpoint.

SINAMICS/SIMOTION Description of the Standard DCC Blocks, Function Edition 02/2012 Manual

Description of the standard DCC blocks for SIMOTION and SINAMICS.

Drive connection

Standard Function for SINAMICS S120 Line Modules, Function Manual **Edition 11/2010**

Describes the function blocks for the activation and deactivation of the SINAMICS S120 Line Modules with DRIVE-CLiQ connection.

Supplement to the SIMODRIVE POSMO A Positioning Motor, Function Manual **Edition 03/2009**

Describes the function blocks for the communication between the SIMOTION system and the distributed SIMODRIVE POSMO A positioning motor.

Reading and Writing Drive Data, Function Manual **Edition 08/2008**

Describes the function block for reading and writing drive data for SIMOTION.

SIMODRIVE

The documents for this topic are available at:

I/O

Supplement to the CP 340 and CP341 Modules, Function Manual **Edition 11/2010**

Describes the function blocks for the data exchange between a SIMOTION device and communication processors.

Supplement to the FM 350-1, FM 350-2 and FM 352 Modules, Function Manual **Edition 11/2010**

Describes the function blocks for the communication between the SIMOTION system and the FM 350-1, FM 350-2 and FM 352 modules.

Supplement to the ET 200S 1SI Serial Interface Module, Function Manual Edition 03/2009

Describes the function blocks for the communication between the SIMOTION system and the ET 200S 1SI serial interface.

Supplement to the ET 200S Frequency Converter, Function Manual   Edition 11/2010

Describes the function block for controlling the ET 200S frequency converter.

Supplement to the Command Interface for AS-Interface Master Modules, Function Manual   Edition 03/2009

Describes the function block for operation of the command interface of the AS-Interface master modules.

Standard Function for ASIsafe Safety Monitors, Function Manual   Edition 03/2009

Describes the function blocks for reading out the diagnostic information of the ASIsafe safety monitor.

Standard Functions for RFID Systems, Function Manual   Edition 08/2008

Describes the function blocks for the data exchange between the SIMOTION system and RFID systems according to the standard profile.

Supplement to the SIWAREX FTA Weighing Module, Function Manual   Edition 11/2010

Describes the function block for controlling and assigning parameters for the SIWAREX FTA Weighing Module.

SIMATIC

The documents for this topic are available at:

Additional information for SIMOTION (Page 31)

Controller

Basic Control, Function Manual   Edition 08/2008

Describes the function blocks of the Basic Control software.

1.7 SIMOTION C

The documentation package contains the description for the **SIMOTION C** hardware platform.

The document of this documentation package is contained in the 5_SIMOTION_C directory.

The system functions and variables for the SIMOTION C hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 14) documentation package).

SIMOTION C, Operating Instructions   **Edition 02/2012**
Describes the controller versions of the SIMOTION product family.

1.8 SIMOTION P

This documentation package contains the descriptions for the **SIMOTION P** hardware platform.

The documents of this documentation package are contained in the 5_SIMOTION_P directory.

The system functions and variables for the SIMOTION P hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 14) documentation package).

SIMOTION P320-3 and Panel Fronts, Manual   **Edition 02/2012**
Describes the PC-based hardware of the SIMOTION product family.

SIMOTION P320-3 and Panel Fronts, Commissioning and Hardware   **Edition 02/2012**
Installation Manual
Describes the PC-based hardware of the SIMOTION product family.

SIMOTION P350-3 and Panel Fronts, Product Manual   **Edition 02/2012**
Describes the PC-based hardware of the SIMOTION product family.

SIMOTION P350-3 and Panel Fronts Commissioning and Hardware   **Edition 02/2012**
Installation Manual
Describes the PC-based hardware of the SIMOTION product family.

1.9   SIMOTON D

1.9.1   Documentation for the SIMOTION D hardware platform

The following documents contain the descriptions for the **SIMOTION D** hardware platform.

The documents of this documentation package are contained in the 5_SIMOTION_D directory.

The system functions and variables for the SIMOTION D hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 14) documentation package).

SIMOTION D4x5, Manual   **Edition 02/2012**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D4x5, Commissioning and Hardware Installation Manual   **Edition 02/2012**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D4x5-2, Manual   **Edition 02/2012**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D4x5-2, Commissioning and Hardware Installation Manual   **Edition 02/2012**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D410, Manual   **Edition 02/2012**

Describes the hardware for the SIMOTION modular drive system for single axes.

SIMOTION D410, Commissioning Manual   **Edition 02/2012**

Describes the hardware for the SIMOTION modular drive system for single axes.

SIMOTION D410-2, Manual   **Edition 02/2012**

SIMOTION D410-2, Commissioning and Hardware Installation Manual   **Edition 02/2012**

1.9.2   Documentation for SINAMICS Integrated

The following documents contain the descriptions for **SINAMICS Integrated**.

The documents for SINAMICS Integrated are contained in the 5_SIMOTION_D directory.

With **SIMOTION D**, the **SIMOTION** PLC and motion control functionality as well as the **SINAMICS S120** drive software run on a shared control hardware.

The integrated **SINAMICS Integrated** drive as well as further drive components are described in the documentation for **SINAMICS S120**:

- For **SIMOTION D4xx**, the SINAMICS Integrated is based on **SINAMICS firmware Version 2.x**
- For **SIMOTION D4xx-2**, the SINAMICS Integrated is based on **SINAMICS firmware Version 4.x**

The documents for SINAMICS can also be supplied individually with the appropriate order number as hard copy.

SINAMICS Integrated, Firmware Version 2.x

SINAMICS S120 Commissioning, Commissioning Manual   Edition 10/2008

This commissioning manual contains all information relevant for the commissioning after installation and wiring.
Order number: 6SL3097-2AF00-0BP8

SINAMICS S120 Drive Functions, Function Manual   Edition 10/2008

This function manual contains all the relevant information about individual drive functions: Description, commissioning and integration in the drive system.
Order number: 6SL3097-2AB00-0BP5

SINAMICS S120 Safety Integrated, Function Manual   Edition 10/2008
Order number: 6SL3097-2AR00-0BP2

SINAMICS S120/S150, List Manual   Edition 10/2008

This List Manual contains all parameters, function block diagrams and faults/warnings for the product/system as well as their meaning and setting options.
Order number: 6SL3097-2AP00-0BP7

SINAMICS S120 Control Units and Supplementary System Components, Edition 10/2008 Manual

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-2AH00-0BP5

SINAMICS S120 Booksize Power Units, Manual   Edition 10/2008

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-2AC00-0BP7

SINAMICS S120 Booksize Cold Plate Power Units, Manual   Edition 03/2007

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-2AJ00-0BP4

SINAMICS S120 Chassis Power Units, Manual   Edition 10/2008
Order number: 6SL3097-2AE00-0BP3

SINAMICS S120 Liquid Cooled Chassis Power Units, Manual   Edition 10/2008
Order number: 6SL3097-2AM00-0BP5

SINAMICS S120 AC DRIVE, Manual   Edition 10/2008

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-2AL00-0BP4

References

Further manuals can be found under Product Support > SINAMICS S High-Performance Converter (http://support.automation.siemens.com/WW/view/en/13305690/133300).

SINAMICS Integrated, Firmware Version 4.x

SINAMICS S120 Getting Started   **Edition 11/2009**

This document provides information on getting started for the first-time user as well as references to additional information.

Order number: 6SL3097-4AG00-0BP0

SINAMICS S120 Commissioning, Commissioning Manual   **Edition 01/2011**

This commissioning manual contains all information relevant for the commissioning after installation and wiring.

Order number: 6SL3097-4AF00-0BP1

SINAMICS S120 Drive Functions, Function Manual   **Edition 01/2012**

This function manual contains all the relevant information about individual drive functions: Description, commissioning and integration in the drive system.

Order number: 6SL3097-4AB00-0BP2

SINAMICS S120 Safety Integrated, Function Manual   **Edition 01/2012**
Order number: 6SL3097-4AR00-0BP3

SINAMICS S120/S150, List Manual   **Edition 01/2012**

This List Manual contains all parameters, function block diagrams and faults/warnings for the product/system as well as their meaning and setting options.

Order number: 6SL3097-4AP00-0BP3

SINAMICS S120 Control Units and Supplementary System Components,   **Edition 01/2012**
Manual

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-4AH00-0BP2

SINAMICS S120 Booksize Power Units, Manual   **Edition 01/2012**

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-4AC00-0BP4

SINAMICS S120 Chassis Power Units, Manual   **Edition 01/2012**
Order number: 6SL3097-4AE00-0BP2

SINAMICS S120 Liquid Cooled Chassis Power Units, Manual   **Edition 01/2012**

Order number: 6SL3097-4AM00-0BP2

SINAMICS S120 AC DRIVE, Manual   **Edition 01/2012**

This product manual contains all information required by the user prior to powering up the system component the first time up to the intended use of the system component, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097-4AL00-0BP2

References

Further manuals can be found under Product Support > SINAMICS S High-Performance Converter (http://support.automation.siemens.com/WW/view/en/13305690/133300).

1.10 SIMOTION Supplementary Documentation

This documentation package contains product information as well as the hardware descriptions for components that are operated together with SIMOTION (e.g. ADI4).

The documents of this documentation package are contained in the 4_Additional_documentation directory.

SIMOTION Terminal Modules TM15 / TM17 High Feature, Commissioning Manual   Edition 02/2012

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

SIMOTION Terminal Modules TM15/TM17 High Feature, Manual   Edition 11/2010

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

ADI4 - Analog Drive Interface for Four Axes, Manual   Edition 03/2010

This document describes the functionality and use of the ADI4 - Analog Drive Interface with which as many as four drives can be operated with the analog setpoint interface on the isochronous PROFIBUS DP.

SIMATIC Distributed I/Os IM 174 PROFIBUS Module, Manual   Edition 01/2009

This document describes the standard functionality of the IM 174 module, an interface module with which as many as four drives can be operated with the analog setpoint interface with one TTL or SSI encoder per axis on the isochronous PROFIBUS DP.

SIMATIC NET (XP/Win7) for SIMOTION, Product Information   Edition 02/2012

This document describes the open OPC interface for access to various communication peers via SIMATIC NET.

SIMOTION Application

2

Numerous applications are available for SIMOTION that already provide a solid basic framework or predefined industry-specific configurations. With the help of the provided documentation, the applications can be easily used, adapted and extended for the associated application.

You can find the following applications in **SIMOTION Utilities & Applications**. SIMOTION Utilities & Applications is provided as part of the SIMOTION SCOUT scope of delivery.

SIMOTION Flying Saw

Flying saw

SIMOTION Rotary Knife

Cross cutter

SIMOTION Winder

Winder

SIMOTION Automatic Splice

Flying splice with gluing together of material webs

SIMOTION Top Loading

Solution for flexible handling applications

SIMOTION Easy Project project generator

SIMOTION Utilities & Applications also contains the SIMOTION Easy Project project generator.

SIMOTION Easy Project makes it easy and fast for basic functions required in practically every application to be included in a new or existing project.

Additional applications

All the complete SIMOTION applications can be found on the Internet at:
 SIMOTION industry-sector solutions (http://www.Siemens.com/simotion/solutions)

The documents are supplied with the associated application or on request. Please contact your Siemens contact regarding this.

A selection of the applications is listed below:

SIMOTION Easy Basics

Collection of standardized SIMOTION basic functionality
(also see Product Support > Motion Control System SIMOTION >
SIMOTION Easy Basics
(http://support.automation.siemens.com/WW/view/en/43192804))

SIMOTION Baggers and Wrappers

Solution for tubular bagging machines

SIMOTION Intelligent Infeed

The application for automatic product infeed with contact-free metering of
the products

SIMOTION Message Handling

The application for quick integration of the message handling in an
existing SIMOTION project

SIMOTION Cartoner

Solution for packaging machines

SIMOTION Axis Function Block

Solution for controlling motion control basic function.

SIMOTION Startup Check

The application for the startup check of devices and I/O modules in the
SIMOTION system

SIMOTION Intelligent Belt

Solution for the automatic operation of an intelligent belt (dual tension) as
well as the provision of functions such as homing, positioning and jogging

SIMOTION/SIMATIC Ethernet Communication TCP/IP LCom

TCP/IP communication for SIMOTION and SIMATIC for data blocks up to
64 KB time synchronization

SIMOTION/SIMATIC OMAC V3

This software library provides a user-friendly basis for the configuration of
an OMAC-compliant mode manager and a data interface for SIMOTION
or SIMATIC

SIMOTION SimoPress

The application for automating mechanical universal presses with SIMOTION

SIMOTION SimoTrans

Solution for electronic transfer systems in the metal forming technology

SIMOTION SimoRoll

Solution for electronic roll feed in the metal forming technology

SIMOTION SimoFeed

Solution for press linking with feeder in the metal forming technology

SIMOTION IME5000 (all-electric injection molding)

Solution for electric injection molding machines

SIMOTION Print Standard

Application example for various printing machine types

SIMOTION Traverser Application

Traverser

SIMOTION Weaving Application

Solution for weaving machines

SIMOTION Ring Spinning Application

Solution for ring spinning machines

SIMOTION Rowing Frame Application

Solution for flyer control in the spinning process

SIMOTION Ordering Information

<div style="text-align: right; font-size: 2em;">3</div>

Catalogs for SIMOTION and other components

SIMOTION, SINAMICS S120 and Motors for Production Machines, PM 21 Catalog Ordering information **Order number: E86060-K4921-A101-A2**	Edition 2011
SINUMERIK & SIMODRIVE, Catalog NC 60, Automation Systems for Machine Tools Ordering information **Order number: E86060-K4460-A101-B3**	Edition 2009
SINUMERIK & SINAMICS, Catalog NC 61, Equipment for Machine Tools Ordering information **Order number: E86060-K4461-A101-A3**	Edition 2010
SIMATIC Products for Totally Integrated Automation and Micro Automation, Catalog ST 70, Ordering information **Order number: E86060-K4670-A101-B3**	Edition 2011
SIMATIC NET, Industrial Communication, Catalog IK PI, Ordering information **Order number: E86060-K6710-A101-B7**	Edition 2012

Interactive catalogs

Products for Automation and Drives　　　　　　　　　　**Edition 10/2011**

Annual update in October, can be ordered at:

Product catalog CA 01
(http://www.automation.siemens.com/mcms/topics/en/ik/Pages/Default.aspx)
Order number: E86060-D4001-A500-D1

/Mall/ IA&DT Mall, Catalog and Online Ordering System

Industry Mall (http://www.siemens.com/industrymall)

Additional information for SIMOTION

<div style="text-align: right; font-size: 3em;">4</div>

The following documents contain advanced information about SIMOTION.

SIMATIC HMI, ProTool Configuration

Communication for Windows-based Systems,
SIMATIC Manual Collection, incl. SIMATIC HMI

Order number: 6ES7 998-8XC01-8YE0

SIMATIC NET CP 343-2 / CP 343-2 P AS-Interface Master, Manual   **Edition 08/2008**

Siemens support: Entry ID 5581657
(http://support.automation.siemens.com/WW/view/en/5581657)

Document identification number: C79000-G8900-C149-04

SIMATIC NET DP/AS-Interface Link 20E, Manual   **Edition 11/2002**

Siemens support: Entry ID 5281638
(http://support.automation.siemens.com/WW/view/en/5281638)

Document identification number: C79000-G8900-C138-04

SIMATIC NET DP/AS-Interface Link Advanced, Manual   **Edition 03/2008**

Siemens support: Entry ID 22710305
(http://support.automation.siemens.com/WW/view/en/22710305)

Document identification number: C79000-G8900-C209-03

SIMATIC NET IE/AS-Interface Link PN IO, Manual   **Edition 03/2008**

Siemens support: Entry ID 22712154
(http://support.automation.siemens.com/WW/view/en/22712154)

Document identification number: C79000-G8900-C216-03

SIMATIC ET 200M Distributed I/O Device, Operating Instructions   **Edition 12/2008**

Siemens support: Entry ID 1142798
(http://support.automation.siemens.com/WW/view/en/28714759)

Document identification number: EWA-4NEB780600601-08

SIMATIC S7-300 CP 340 Point-to-Point Connection, Installation and   **Edition 04/2011**
Parameter Assignment, Manual

Siemens support: Entry ID 1137332
(http://support.automation.siemens.com/WW/view/en/1137332)

Document identification number: A5E00369891-03

SIMATIC S7-300 CP 341 Point-to-Point Connection, Installation and Parameter Assignment, Manual

Edition 04/2011

Siemens support: Entry ID 1117397
(http://support.automation.siemens.com/WW/view/en/1117397)
Document identification number: A5E02191070-03

SIMATIC S7-300 FM 350-1 Counter Module, Manual

Edition 05/2011

Siemens support: Entry ID 1086726
(http://support.automation.siemens.com/WW/view/en/1086726)
Document identification number: A5E03539812-01

SIMATIC S7-300 FM 350-2 Counter Module, Manual

Edition 05/2011

Siemens support: Entry ID 1105178
(http://support.automation.siemens.com/WW/view/en/1105178)
Document identification number: A5E00271803-03

SIMATIC S7-300 FM 352 Electronic Cam Controller

Edition 05/2011

Installation and Parameter Assignment, Operating Instructions

Siemens support: Entry ID 2103044
(http://support.automation.siemens.com/WW/view/en/28714759)
Document identification number: A5E01071719-03

SIMATIC Distributed I/O ET 200S Interface Module IM151-1 HIGH FEATURE (6ES7151-1BA02-0AB0), Manual

Edition 03/2008

Document identification number: A5E01075974-02

SIMATIC ET 200S Distributed I/Os IM151-3 PN HIGHFEATURE Interface Module (6ES7151-3BA23-0AB0), Manual

Edition 08/2010

Document identification number: A5E01584256-04

SIMATIC ET 200S Distributed I/O System, Operating Instructions

Edition 08/2008

Siemens support: Entry ID 1144348
(http://support.automation.siemens.com/WW/view/en/1144348)
Document identification number: A5E00515770-06

SIMATIC ET 200S Serial Interface Modules, Operating Instructions

Edition 03/2009

Siemens support: Entry ID 9260793
(http://support.automation.siemens.com/WW/view/en/9260793)
Document identification number: A5E00124880-05

SIMATIC ET 200S FC Frequency Converter, Operating Instructions

Edition 06/2007

Siemens support: Entry ID 26291825
(http://support.automation.siemens.com/WW/view/en/26291825)

Document identification number: A5E01100755A AA

SIMATIC ET 200S FC Frequency Converter ICU24(F) Control Units, List Manual	**Edition 06/2007**

Siemens support: Entry ID 26493107
(http://support.automation.siemens.com/WW/view/en/26493107)
Document identification number: A5E00348653A AB

SIMATIC S7-300 Automation System, Module Data, Manual	**Edition 03/2011**

Siemens support: Entry ID 8859629
(http://support.automation.siemens.com/WW/view/en/8859629)
This manual is part of the documentation packages with the following
Order number: 6ES7 398-8FA10-8AA0
Document identification number: A5E00105504-07

SIMATIC Logon, Configuration Manual	**Edition 08/2008**

Document identification number: A5E00496671-05

EMC Installation Guide, Configuration Manual (HW)	**Edition 03/2004**

Order number: 6FC5 297-0AD30-0AP2

SIMODRIVE POSMO A	**Edition 10/2007**
Distributed Positioning Motor on the PROFIBUS DP, User Manual	

Siemens support: Entry ID 28714759
(http://support.automation.siemens.com/WW/view/en/28714759)
Order number: 6SN2197-0AA00-1AP1

SIMODRIVE POSMO A	**Edition 04/2002**
Hardware Installation Instructions	

Siemens support: Entry ID 28821238
(http://support.automation.siemens.com/WW/view/en/28821238)
Order number: 6SN2197-0AA00-0AP

SIMODRIVE 611 Universal / E, Description of Functions	**Edition 09/2005**
Closed-loop control component for speed control and positioning	

Order number: 6SN1197-0AB20-1AP3

SIMOVERT MASTERDRIVES Motion Control, Compendium (AI)	**Edition 12/2007**

SIMOVERT MASTERDRIVES Vector Control	**Edition 2003/2004**
Single and multi-motor drives 0.55 kW to 2300 kW	
Ordering information	

Order number: E86060-K5165-A101-A3

Distributed Servo Drives, User Manual   Edition 10/2004

SIMODRIVE POSMO SI, SIMODRIVE CD/CA

Order number: 6SN2 197-0AA20-0AP7

SINUMERIK 840D/840Di/810D, Operator Components,   Edition 04/2004

Manual order number: 6FC5297-7AA50-0AP0

SIRIUS AS-Interface Safety Monitor IEC 61508/EN 954-1, Operating   Edition 2009
Instructions

Siemens support: Entry ID 12265037
(http://support.automation.siemens.com/WW/view/en/24432172)

AS-Interface Safety Monitor, Operating Instructions   Edition 09/2008

Siemens support: Entry ID 24432172
(http://support.automation.siemens.com/WW/view/en/24432172)

Document identification number: GWA 4NEB 333 1557 01 DS02

Order number: 3RK1701-2MB21-0AA0

ASIMON V3   Edition 09/2008

Configuration Software for AS-Interface Safety Monitor,

Programming and Operating Manual

Configuration Software for Microsoft® Windows®

Siemens support: Entry ID 24434774
(http://support.automation.siemens.com/WW/view/en/24434774)

Document identification number: GWA 4NEB 333 1558 01 DS 02

SIMATIC Sensors RFID Systems ASM 456 Interface Module,   Edition 10/2009
Operating Instructions

Siemens support: Entry ID 32629442
(http://support.automation.siemens.com/WW/view/en/32629442)

Order number: J31069-D0162-U001-A4-0018

SIWAREX FTA Weighing Electronics for Independent Weighing,   Edition 06/2010
Manual

Siemens support: Entry ID 17970155
(http://support.automation.siemens.com/WW/view/en/17970155)

Document identification number: A5E00452858A