



# Automating with STEP 7 in STL and SCL

By Hans Berger

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SIMATIC is the worldwide established automation system for implementing industrial control systems for machines, manufacturing plants and industrial processes. Relevant open loop and closed loop control tasks are formulated in various programming languages with the programming software STEP 7. Now in its fourth edition, this book introduces the latest version of the programming software STEP 7. It describes elements and applications of the text oriented programming languages STL (statement list) and SCL (structured control language) for use with both SIMATIC S7 300 and SIMATIC S7 400 including the applications with PROFINET. It is aimed at all users of SIMATIC S7 controllers. First time users are introduced to the field of programmable controllers, while advanced users learn about specific applications of the SIMATIC S7 automation system. The accompanying disk contains all programming examples found in the book and even a few extra examples as archived block libraries. After retrieving the archives in STEP 7, the examples can be viewed, copied to projects and tested in STL and SCL.

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## Automating with STEP 7 in STL and SCL By Hans Berger Bibliography

- Sales Rank: #6930970 in Books
- Published on: 2007-08-03
- Original language: English
- Number of items: 1
- Dimensions: 9.92" h x 1.03" w x 6.99" l,
- Binding: Hardcover
- 540 pages

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## **Editorial Review**

### Review

"A must for the person using Siemens PLC's. This is the book for the beginner or for the experienced Siemens S7 Programmer. Book covers the things you need to know or reference when programming." (Richard H. Quick, USA; Amazon 02/2008)

"Automating with S7...STL/SCL" is a reference book for any EXPERT programmer using Siemens S7 PLC's. Hans Berger, the author, is the "father" of S7 PLC family (in a technical way). If you want to reach the EXPERT level, YOU MUST HAVE THIS BOOK!!!...." (ValRo, USA; Amazon, 06/2008)

### From the Back Cover

#### **Automating with STEP 7 in STL and SCL.**

Statement list (STL) and structured Control language (SCL) are the text-oriented programming languages in the programming software STEP 7.

Now in its fourth edition, this book is an introduction into the latest version of STEP 7. It describes elements and applications for use with both SIMATIC S7-300 and SIMATIC S7-400, including the applications with PROFINET. It is aimed at all users of SIMATIC S7 controllers. First-time users are introduced to the field of programmable controllers, while advanced users learn about specific applications of the SIMATIC S7 automation system.

SIMATIC is the worldwide established automation system for implementing industrial control systems for machines, manufacturing plants and industrial processes. Relevant open-loop and closed-loop control tasks are formulated in various programming languages with the programming software STEP 7.

All programming examples found in the book - and even a few extra examples - are available over the publisher's website.

## **Contents**

### System overview:

- SIMATIC S& and STEP 7
- Programming Languages STL and SCL
- Data Types
- Binary and digital STL operations
- Program Flow Control
- Program execution
- Indirect Addressing in STL
- SCL Control Statements
- SCL standard Functions
- S5/S7 converters

### About the Author

#### **HANS BERGER**

is a very experienced developer of automation systems and software and a most successful author of technical books. He has published more than 30 books on automation technology. Including all editions in English, German and Spanish, his total book record comprises more than 70 editions.

## **Users Review**

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#### **Cleveland Bolton:**

This Automating with STEP 7 in STL and SCL book is just not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book is definitely information inside this publication incredible fresh, you will get info which is getting deeper you read a lot of information you will get. This specific Automating with STEP 7 in STL and SCL without we recognize teach the one who reading through it become critical in imagining and analyzing. Don't always be worry Automating with STEP 7 in STL and SCL can bring whenever you are and not make your carrier space or bookshelves' come to be full because you can have it within your lovely laptop even cellphone. This Automating with STEP 7 in STL and SCL having very good arrangement in word in addition to layout, so you will not sense uninterested in reading.

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