

TECHNICAL REPORT

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Programmable controllers –

Part 8: Guidelines for the application and implementation of programming languages

Automates programmables –

*Partie 8:
Lignes directrices pour l'application et la mise en oeuvre
des langages de programmation*

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CONTENTS

FOREWORD	6
INTRODUCTION	8
 1 General.....	 9
1.1 Scope	9
1.2 Normative references.....	9
1.3 Abbreviated terms.....	9
1.4 Overview	10
2 Introduction to IEC 61131-3.....	10
2.1 General considerations	10
2.2 Overcoming historical limitations	12
2.3 Basic features in IEC 61131-3.....	13
2.4 New features in the second edition of IEC 61131-3.....	14
2.5 Software engineering considerations	14
2.5.1 Application of software engineering principles.....	14
2.5.2 Portability.....	17
3 Application guidelines	18
3.1 Use of data types.....	18
3.1.1 Type versus variable initialization	18
3.1.2 Use of enumerated and subrange types.....	18
3.1.3 Use of BCD data	19
3.1.4 Use of REAL data types	21
3.1.5 Use of character string data types	21
3.1.6 Use of time data types.....	23
3.1.7 Declaration and use of multi-element variables.....	23
3.1.8 Use of bit-string functions.....	24
3.1.9 Strongly typed assignment.....	25
3.2 Data passing.....	26
3.2.1 Global and external variables	27
3.2.2 In-out (VAR_IN_OUT) variables.....	27
3.2.3 Formal and non-formal invocations and argument lists.....	30
3.3 Use of function blocks.....	32
3.3.1 Function block types and instances	32
3.3.2 Scope of data within function blocks	33
3.3.3 Function block access and invocation.....	34
3.4 Differences between function block instances and functions	35
3.5 Use of indirectly referenced function block instances	35
3.5.1 Establishing an indirect function block instance reference.....	35
3.5.2 Access to indirectly referenced function block instances	37
3.5.3 Invocation of indirectly referenced function block instances	38
3.5.4 Recursion of indirectly referenced function block instances.....	40
3.5.5 Execution control of indirectly referenced function block instances.....	40
3.5.6 Use of indirectly referenced function block instances in functions.....	40
3.6 Recursion within programmable controller programming languages	41
3.7 Single and multiple invocation	41

3.8	Language specific features	42
3.8.1	Edge-triggered functionality	42
3.8.2	Use of EN/ENO in functions and function blocks	43
3.8.3	Use of non-IEC 61131-3 languages	44
3.9	Use of SFC elements	45
3.9.1	Action control	45
3.9.2	Boolean actions	46
3.9.3	Non-SFC actions	49
3.9.4	SFC actions	51
3.9.5	SFC function blocks	51
3.9.6	“Indicator” variables	52
3.10	Scheduling, concurrency, and synchronization mechanisms	52
3.10.1	Operating system issues	52
3.10.2	Task scheduling	54
3.10.3	Semaphores	55
3.10.4	Messaging	56
3.10.5	Time stamping	56
3.11	Communication facilities in ISO/IEC 9506/5 and IEC 61131-5	57
3.11.1	Communication channels	57
3.11.2	Reading and writing variables	57
3.11.3	Communication function blocks	58
3.12	Deprecated programming practices	59
3.12.1	Global variables	59
3.12.2	Jumps in FBD language	59
3.12.3	Multiple invocations of function block instances in FBD	59
3.12.4	Coupling of SFC networks	59
3.12.5	Dynamic modification of task priorities	60
3.12.6	Execution control of function block instances by tasks	60
3.12.7	Incorrect use of WHILE and REPEAT constructs	60
3.13	Use of TRUNC and REAL_TO_INT functions	61
4	Implementation guidelines	62
4.1	Resource allocation	62
4.2	Implementation of data types	62
4.2.1	REAL and LREAL data types	62
4.2.2	Bit strings	62
4.2.3	Character strings	63
4.2.4	Time data types	63
4.2.5	Multi-element variables	63
4.3	Execution of functions and function blocks	64
4.3.1	Functions	64
4.3.2	Function blocks	64
4.4	Implementation of SFCs	65
4.4.1	General considerations	65
4.4.2	SFC evolution	66
4.5	Task scheduling	66
4.5.1	Classification of tasks	66
4.5.2	Task priorities	67

4.6	Error handling	67
4.6.1	Error-handling mechanisms	67
4.6.2	Run-time error-handling procedures	69
4.7	System interface	71
4.8	Compliance.....	71
4.8.1	Compliance statement.....	71
4.8.2	Controller instruction sets.....	71
4.8.3	Compliance testing.....	72
5	PSE requirements	72
5.1	User interface	72
5.2	Programming of programs, functions and function blocks	73
5.3	Application design and configuration	73
5.4	Separate compilation	74
5.5	Separation of interface and body.....	75
5.5.1	Invocation of a function from a programming unit.....	75
5.5.2	Declaration and invocation of a function block instance.....	76
5.6	Linking of configuration elements with programs.....	77
5.7	Library management	79
5.8	Analysis tools.....	79
5.8.1	Simulation and debugging	79
5.8.2	Performance estimation	80
5.8.3	Feedback loop analysis	80
5.8.4	SFC analysis.....	80
5.9	Documentation requirements.....	83
5.10	Security of data and programs.....	83
5.11	On-line facilities	83
	Annex A (informative) Changes to IEC 61131-3, Second edition.....	84
	Annex B (informative) Software quality measures.....	94
	Annex C (informative) Relationships to other standards	96
	INDEX.....	97
	Bibliography	109
	Figure 1 – A distributed application	11
	Figure 2 – Stand-alone applications	11
	Figure 3 – Cyclic or periodic scanning of a program	12
	Figure 4 – Function block BCD_DIFF.....	20
	Figure 5 – Function block SBCD_DIFFF.....	21
	Figure 6 – ST example of time data type usage.....	23
	Figure 7 – Example of declaration and use of “anonymous array types”	24
	Figure 8 – Examples of VAR_IN_OUT usage	29
	Figure 9 – Hiding of function block instances	34
	Figure 10 – Graphical use of a function block name	37
	Figure 11 – Access to an indirectly referenced function block instance	37

Figure 12 – Invocation of an indirectly referenced function block instance	39
Figure 13 – Timing of edge triggered functionality	43
Figure 14 – Execution control example	44
Figure 15 – Timing of Boolean actions	49
Figure 16 – Example of a programmed non-Boolean action.....	50
Figure 17 – Use of the pulse (P) qualifier	51
Figure 18 – An SFC function block.....	52
Figure 19 – Example of incorrect and allowed programming constructs	61
Figure 20 – Essential phases of POU creation	73
Figure 21 – Essential phases of application creation	74
Figure 22 – Separate compilation of functions and function blocks	74
Figure 23 – Compiling a program accessing external or directly represented variables	75
Figure 24 – Compiling a function that invokes another function	75
Figure 25 – Compiling a program containing local instances of function blocks.....	76
Figure 26 – Separate compilation example.....	77
Figure 27 – The configuration process	78
Figure 28 – Reduction steps	81
Figure 29 – Reduction of SFCs	82
 Table 1 – IEC 61131-3 elements supporting encapsulation and hiding.....	 15
Table 2 – Examples of textual invocations of functions and function blocks	31
Table 3 – Differences between multi-user and real-time systems.....	54
Table 4 – Recommended run-time error-handling mechanisms	68
Table A.1 – Changes in usage to achieve program compliance	93

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PROGRAMMABLE CONTROLLERS –**Part 8: Guidelines for the application
and implementation of programming languages**

FOREWORD

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IEC 61131-8, which is a technical report, has been prepared by subcommittee 65B: Devices, of IEC technical committee 65: Industrial-process measurement and control.

This second edition cancels and replaces the first edition, published in 2000, and constitutes a technical revision.

The main changes with respect to the previous edition are to make IEC 61131-8 consistent with IEC 61131-3, 2nd edition.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
65B/478/DTR	65B/492/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

This part of IEC 61131 is being issued as a technical report in order to provide guidelines for the implementation and application of the programming languages defined in IEC 61131-3: 2003, second edition.

Its contents answer a number of frequently asked questions about the intended application and implementation of the normative provisions of IEC 61131-3, second edition and about its differences from IEC 61131-3:1993, first edition.

PROGRAMMABLE CONTROLLERS –

Part 8: Guidelines for the application and implementation of programming languages

1 General

1.1 Scope

This part of IEC 61131, which is a technical report, applies to the programming of programmable controller systems using the programming languages defined in IEC 61131-3. It also provides guidelines for the implementation of these languages in programmable controller systems and their programming support environments (PSEs).

IEC 61131-4 should be consulted for other aspects of the application of programmable controller systems.

NOTE Neither IEC 61131-3 nor this technical report explicitly addresses safety issues of programmable controller systems or their associated software. The various parts of IEC 61508 should be consulted for such considerations.

1.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61131-1:1992, *Programmable controllers – Part 1: General information*

IEC 61131-2:2003, *Programmable controllers – Part 2: Equipment requirements and tests*

IEC 61131-3:2003, *Programmable controllers – Part 3: Programming languages*

IEC 61131-5:2000, *Programmable controllers – Part 5: Communications*