OPC unified architecture - Part 3: Address space model

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62541-3:2010 sisaldab Euroopa standardi EN 62541-3:2010 ingliskeelset teksti.	This Estonian standard EVS-EN 62541-3:2010 consists of the English text of the European standard EN 62541-3:2010.
Standard on kinnitatud Eesti Standardikeskuse 30.11.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 30.11.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.10.2010.	Date of Availability of the European standard text 15.10.2010.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 25.040.40, 35.100

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62541-3

October 2010

ICS 25.040.40; 35.100

English version

OPC unified architecture - Part 3: Address Space Model

(IEC 62541-3:2010)

Architecture unifiée OPC - Partie 3: Modèle d'espace d'adressage (CEI 62541-3:2010)

OPC Unified Architecture - Teil 3: Adressraummodell (IEC 62541-3:2010)

This European Standard was approved by CENELEC on 2010-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

The text of document 64E/160/FDIS, future edition 1 of IEC 62541-3, prepared by SC 65E, Devices and integration in enterprise systems, of IEC TC 65, Industrial-process measurement, control and automation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62541-3 on 2010-10-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2011-07-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2013-10-01

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 62541-3:2010 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 62541-4	200X [1)]	OPC unified architecture - Part 4: Services	EN 62541-4	200X [2)]
IEC 62541-5	200X [1)]	OPC unified architecture - Part 5: Information model	EN 62541-5	200X [2)]
IEC 62541-6	200X [1)]	OPC unified architecture - Part 6: Mappings	EN 62541-6	200X [2)]
IEC 62541-8	200X [1)]	OPC unified architecture - Part 8: Data access	EN 62541-8	200X [2)]
IEC/TR 62541-1	-	OPC unified architecture - Part 1: Overview and concepts	CLC/TR 62541-1	-
ISO/IEC 10918-1	-	Information technology - Digital compression and coding of continuous-tone still images: Requirements and guidelines	-	-
ISO/IEC 15948	-	Information technology - Computer graphics and image processing - Portable Network Graphics (PNG) - Functional specification	-	-
ISO 639	Series	Codes for the representation of names of languages	-	-
ISO 3166	Series	Codes for the representation of names of countries and their subdivivions	EN ISO 3166	Series
IEEE 754	1985	Binary Floating-Point Arithmetic	-	-

[1)] To be published.

[2)] At draft stage.

CONTENTS

INTRODUCTION

This International Standard is the specification for developers of OPC UA applications. The specification is a result of an analysis and design process to develop a standard interface to facilitate the development of applications by multiple vendors that inter-operate seamlessly together.

OPC UNIFIED ARCHITECTURE –

Part 3: Address Space Model

1 Scope

This part of IEC 62541 describes the OPC Unified Architecture (OPC UA) *AddressSpace* and its *Objects*. This Part is the OPC UA meta model on which OPC UA information models are based.

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/TR 62541-1, *OPC Unified Architecture – Part 1: Overview and Concepts*

IEC 62541-4[1], *OPC Unified Architecture – Part 4: Services*

IEC 62541-5[1], *OPC Unified Architecture – Part 5: Information Model*

IEC 62541-6[1], *OPC Unified Architecture – Part 6: Mappings*

IEC 62541-8[1], *OPC Unified Architecture – Part 8: Data Access*

ISO/IEC 10918-1, *Information technology – Digital compression and coding of continuous-tone still images: Requirements and guidelines*

ISO/IEC 15948, *Information technology – Computer graphics and image processing – Portable Network Graphics (PNG): Functional specification*

ISO 639 (all parts), *Codes for the representation of names of languages*

ISO 3166 (all parts), Codes for the representation of names of countries and their subdivisions

XML Schema Part 1,available at <http://www.w3.org/TR/xmlschema-1/>

XML Schema Part 2, available at <http://www.w3.org/TR/xmlschema-2/>

XPATH, available at <http://www.w3.org/TR/xpath/>

IETF RFC 3066, *Tags for the Identification of Languages,* available at <http://tools.ietf.org/html/rfc3066>

IEEE 754-1985, *IEEE Standard for Binary Floating-Point Arithmetic*, available at <http://ieeexplore.ieee.org/servlet/opac?punumber=2355>

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[1] To be published.