



**SLOVENSKI STANDARD**  
**SIST EN IEC 62541-12:2020**

**01-december-2020**

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**Enotna arhitektura OPC - 12. del: Razkritje in globalne storitve (IEC 62541-12:2020)**

OPC Unified Architecture Specification - Part 12: Discovery (IEC 62541-12:2020)

OPC Unified Architecture - Teil 12: Erkundung und globale Dienste (IEC 62541-12:2020)

Architecture unifiée OPC - Partie 12: Services globaux et de découverte (IEC 62541-12:2020)

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**Ta slovenski standard je istoveten z: EN IEC 62541-12:2020**

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**ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.240.50	Uporabniške rešitve IT v industriji	IT applications in industry

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EUROPEAN STANDARD

EN IEC 62541-12

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2020

ICS 25.040.40

English Version

OPC unified architecture - Part 12: Discovery and global  
services  
(IEC 62541-12:2020)

Architecture unifiée OPC - Partie 12: Services globaux et de  
découverte  
(IEC 62541-12:2020)

OPC Unified Architecture - Teil 12: Erkundung und globale  
Dienste  
(IEC 62541-12:2020)

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

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

**EN IEC 62541-12:2020 (E)****European foreword**

The text of document 65E/711/FDIS, future edition 1 of IEC 62541-12, 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 approved by CENELEC as EN IEC 62541-12:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-04-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-07-21

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TR 62541-1	-	OPC unified architecture - Part 1: Overview and concepts	CLC/TR 62541-1	-
IEC/TR 62541-2	-	OPC unified architecture - Part 2: Security model	CLC/TR 62541-2	-
IEC 62541-3	-	OPC Unified Architecture - Part 3: Address Space Model	-	-
IEC 62541-4	-	OPC Unified Architecture - Part 4: Services	-	-
IEC 62541-5	-	OPC Unified Architecture - Part 5: Information Model	-	-
IEC 62541-6	-	OPC Unified Architecture - Part 6: Mappings	-	-
IEC 62541-7	-	OPC unified architecture - Part 7: Profiles	-	-
IEC 62541-9	-	OPC Unified Architecture - Part 9: Alarms and Conditions	-	-
IEC 62541-14	-	OPC Unified Architecture - Part 14: PubSub	-	-
X.500: ISO/IEC 9594-1	2017	Information technology - Open Systems Interconnection - The Directory - Part 1: Overview of concepts, models and services		
IETF RFC 1035	-	Domain Names - Implementation and Specification	-	-
IETF RFC 2986	-	PKCS #10: Certification Request Syntax Specification Version 1.7	-	-
IETF RFC 3927	-	Dynamic Configuration of IPv4 Link-Local Addresses	-	-

**EN IEC 62541-12:2020 (E)**

IETF RFC 5958	-	Asymmetric Key Packages	-	-
IETF RFC 6762	-	mDNS: Multicast DNS	-	-
IETF RFC 6763	-	DNS-SD: DNS Based Service Discovery	-	-
IETF RFC 7030	-	Enrollment over Secure Transport	-	-
PKCS #12	-	Personal Information Exchange Syntax	-	-
DI	-	OPC Unified Architecture for Devices (DI)	-	-
ADI	-	OPC Unified Architecture for Analyzer Devices (ADI)	-	-
PLCopen	-	OPC Unified Architecture / PLCopen Information Model	-	-
FDI	-	OPC Unified Architecture for FDI	-	-
ISA-95	-	ISA-95 Common Object Model	-	-

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**OPC unified architecture –**  
**Part 12: Discovery and global services**

**Architecture unifiée OPC –**  
**Partie 12: Services globaux et de découverte**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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INTERNATIONALE

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ICS 25.040.40

ISBN 978-2-8322-8455-1

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPC UNIFIED ARCHITECTURE –

## Part 12: Discovery and global services

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International standard IEC 62541-12 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

The text of this standard is based on the following documents:

FDIS	Report on voting
65E/711/FDIS	65E/723/RVD

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

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

Throughout this document and the other parts of the IEC 62541 series, certain document conventions are used:

*Italics* are used to denote a defined term or definition that appears in the "Terms and definition" clause in one of the parts of the IEC 62541 series.

*Italics* are also used to denote the name of a service input or output parameter or the name of a structure or element of a structure that are usually defined in tables.

The *italicized terms and names* are, with a few exceptions, written in camel-case (the practice of writing compound words or phrases in which the elements are joined without spaces, with each element's initial letter capitalized within the compound). For example, the defined term is AddressSpace instead of Address Space. This makes it easier to understand that there is a single definition for AddressSpace, not separate definitions for Address and Space.

A list of all parts of the IEC 62541 series, published under the general title *OPC Unified Architecture*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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