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**OPC unified architecture -
Part 23: Common ReferenceTypes**

**Architecture unifiée OPC -
Partie 23: ReferenceTypes communs**

IEC 62541-23:2025

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IEC Secretariat
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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OPC unified architecture - Part 23: Common ReferenceTypes

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IEC 62541-23 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control, and automation. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65E/1048/CDV	65E/1105/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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The *italicized terms* and *names* are also often 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.

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1 Scope

This part of IEC 62541 defines *ReferenceTypes* commonly used in industrial Information Models. They are more specific than the *ReferenceTypes* in IEC 62541-3 which are an inherent part of the OPC UA Address Space Model.

2 Normative references

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.

IEC 62541-1, *OPC Unified Architecture - Part 1: Overview and Concepts*

IEC 62541-3, *OPC Unified Architecture - Part 3: Address Space Model*

IEC 62541-5, *OPC Unified Architecture - Part 5: Information Model*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62541-1, IEC 62541-3, and IEC 62541-5 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.2 Abbreviated terms

CPU	Central Processing Unit
IO	Input/Output
IP	Internet Protocol
PC	Personal Computer
PCI	Peripheral Component Interconnect
PHY	Physical Layer
PLC	Programmable Logic Controller
RFID	Radio Frequency Identification

4 OPC UA ReferenceTypes

4.1 Overview

Figure 1 gives an overview of the *ReferenceTypes* defined in the following subsections.