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**Enotna arhitektura OPC - 11. del: Zgodovinski dostop (IEC 62541-11:2025)**

OPC Unified Architecture - Part 11: Historical Access (IEC 62541-11:2025)

OPC Unified Architecture - Teil 11: Zugang zu historischen Daten (IEC 62541-11:2025)

Architecture unifiée OPC - Partie 11: Accès à l'historique (IEC 62541-11:2025)

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**SIST EN IEC 62541-11:2026****en,fr,de**

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EUROPEAN STANDARD  
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**EN IEC 62541-11**

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## OPC Unified Architecture - Part 11: Historical Access (IEC 62541-11:2025)

Architecture unifiée OPC - Partie 11: Accès à l'historique  
(IEC 62541-11:2025)

OPC Unified Architecture - Teil 11: Zugang zu historischen  
Daten  
(IEC 62541-11:2025)

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Comité Européen de Normalisation Electrotechnique  
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Ref. No. EN IEC 62541-11:2026 E

## EN IEC 62541-11:2026 (E)

### European foreword

The text of document 65E/1058/CDV, future edition 3 of IEC 62541-11, 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 62541-11:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-02-28 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-02-28 document have to be withdrawn

This document supersedes EN IEC 62541-11:2020 and all of its amendments and corrigenda (if any).

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

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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#### Endorsement notice

The text of the International Standard IEC 62541-11:2025 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62541-6 NOTE Approved as EN IEC 62541-6

## 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62541-1	-	OPC Unified Architecture - Part 1: Overview and concepts	EN IEC 62541-1	-
IEC 62541-3	-	OPC Unified Architecture - Part 3: Address Space Model	EN IEC 62541-3	-
IEC 62541-4	-	OPC unified architecture - Part 4: Services	EN IEC 62541-4	-
IEC 62541-5	-	OPC Unified architecture - Part 5: Information Model	EN IEC 62541-5	-
IEC 62541-7	-	OPC Unified Architecture - Part 7: Profiles	EN IEC 62541-7	-
IEC 62541-8	-	OPC unified architecture - Part 8: Data access	EN IEC 62541-8	-
IEC 62541-13	-	OPC Unified Architecture - Part 13: Aggregates	EN IEC 62541-13	-

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IEC 62541-11

Edition 3.0 2025-12

# INTERNATIONAL STANDARD

**OPC unified architecture -  
Part 11: Historical Access**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**OPC unified architecture -  
Part 11: Historical Access**

## 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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IEC 62541-11 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.

This fourth edition cancels and replaces the third edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) a functionality has been added to support retrieving of modified events;
- b) an Event has been added to indicate when a backfill occurred;
- c) a new ReferenceType that can be used to indicate an external node has been defined;
- d) the text has been improved to better explain the concept of annotation and remove conflicting explanations;

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- e) a default historian configuration (and where to find it) has been defined;
- f) `HistoricalEventConfigurationType`, which provides general configuration information about the historical Event storage, has been added;
- g) the text has been updated and optional fields have been added to HA configuration object to allow configuration to be defined for periodic data collection, not just for exception-based collection;
- h) an `ObjectType` that can be used for external event collection has been provided as well as an example how historians can be configured.

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

Draft	Report on voting
65E/1058/CDV	65E/1096/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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 definitions" 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 in 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 [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## 1 Scope

This part of IEC 62541 belongs to the OPC Unified Architecture standards series and defines the *Information Model* associated with Historical Access (HA). It particularly includes additional and complementary descriptions of the *NodeClasses* and *Attributes* needed for Historical Access, additional standard *Properties*, and other information and behaviour.

The complete *AddressSpace* Model including all *NodeClasses* and *Attributes* is specified in IEC 62541-3. The predefined *Information Model* is defined in IEC 62541-5. The *Services* to detect and access historical data and events, and description of the *ExtensibleParameter* types are specified in IEC 62541-4.

This document includes functionality to compute and return *Aggregates* like minimum, maximum, average etc. The *Information Model* and the concrete working of *Aggregates* are defined in IEC 62541-13.

Conventions for Historical Access Clients are informatively provided in Annex A.

## 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 62541-4, *OPC Unified Architecture - Part 4: Services*

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

IEC 62541-7, *OPC Unified Architecture - Part 7: Profiles*

IEC 62541-8, *OPC Unified Architecture - Part 8: Data Access*

IEC 62541-13, *OPC Unified Architecture - Part 13: Aggregates*

## 3 Terms, definitions and abbreviations

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62541-1, IEC 62541-3, IEC 62541-4, IEC 62541-13 and the following 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>

**3.1.1****Annotation**

metadata associated with an item at a given instance in time

Note 1 to entry: An *Annotation* is metadata that is associated with an item at a given instance in time.

**3.1.2****BoundingValues**

values associated with the starting and ending time

Note 1 to entry: *BoundingValues* are the values that are associated with the starting and ending time of a *ProcessingInterval* specified when reading from the historian. *BoundingValues* can be required by *Clients* to determine the starting and ending values when requesting *RawData* over a time range. If a *RawData* value exists at the start or end point, it is considered the bounding value even though it is part of the data request. If no *RawData* value exists at the start or end point, then the *Server* will determine the boundary value, which possibly requires data from a data point outside of the requested range. See 4.6 for details on using *BoundingValues*.

**3.1.3****Historian**

application storing time series data and/or time series events

**3.1.4****HistoricalNode**

*Object, Variable, Property or View* in the *AddressSpace* where a *Client* can access historical data or *Events*

Note 1 to entry: A *HistoricalNode* is a term used in this document to represent any *Object, Variable, Property or View* in the *AddressSpace* for which a *Client* can read and/or update historical data or *Events*. The terms "*HistoricalNodes's* history" or "history of a *HistoricalNodes*" will refer to the time series data or *Events* stored for this *HistoricalNode*. The term *HistoricalNode* refers to both *HistoricalDataNodes* and *HistoricalEventNodes*.

**3.1.5****HistoricalDataNode**

*Variable or Property* in the *AddressSpace* where a *Client* can access historical data

Note 1 to entry: A *HistoricalDataNode* represents any *Variable or Property* in the *AddressSpace* for which a *Client* can read and/or update historical data. "*HistoricalDataNode* history" or "history of a *HistoricalDataNode*" refers to the time series data stored for this *HistoricalNode*. Examples of such data are:

- device data (like temperature sensors)
- calculated data
- status information (open/closed, moving)
- dynamically changing system data (like stock quotes)
- diagnostic data

The term *HistoricalDataNodes* is used when referencing aspects of the standard that apply to accessing historical data only.

**3.1.6****HistoricalEventNode**

*Object or View* in the *AddressSpace* for which a *Client* can access historical *Events*

Note 1 to entry: "*HistoricalEventNode's* history" or "history of a *HistoricalEventNode*" refers to the time series *Events* stored in some historical system. Examples of such data are:

- *Notifications*
- system *Alarms*
- operator action *Events*
- system triggers (such as new orders to be processed)

The term *HistoricalEventNode* is used when referencing aspects of the standard that apply to accessing historical *Events* only.