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OPC unified architecture -
Part 17: Alias Names

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OPC unified architecture - Part 17: Alias Names

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

Draft	Report on voting
65E/1042/CDV	65E/1100/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.

Throughout this document and the other Parts of the 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 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 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.

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 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– withdrawn, or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 provides a definition of *AliasNames* functionality. *AliasNames* provide a manner of configuring and exposing an alternate well-defined name for any *Node* in the system. This is analogous to the way domain names are used as an alias to IP addresses in IP networks. Like a DNS Server, an OPC UA *Server* that supports *AliasNames* provides a lookup *Method* that will translate an *AliasName* to a *NodeId* of the related *Node* on a *Server.* An aggregating *Server* can collect these *AliasNames* from multiple *Servers* and provide a lookup *Method* to allow *Client* applications to discover *NodeIds* on a system wide basis. An aggregating *Server* could also define *AliasNames* for *Nodes* in other *Servers* that do not support *AliasNames.* A GDS can be constructed that would automatically aggregate all *AliasNames* that are defined on any *Server* that has registered with the GDS. In this case, the GDS also provides the lookup mechanism for *Clients* at a well-known endpoint and address.

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 62541-12, *OPC Unified Architecture - Part 12: Discovery and Global Services*

IEC 62541-14, *OPC Unified Architecture - Part 14: PubSub*

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