

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**OPC unified architecture –  
Part 5: Information Model**

**Architecture unifiée OPC –  
Partie 5: Modèle d'Information**

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**OPC UNIFIED ARCHITECTURE –**

**Part 5: Information Model**

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Withhold

## 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.



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# OPC Unified Architecture –

## Part 5: Information Model

### 1 Scope

This part of IEC 62541 defines the Information Model of the OPC Unified Architecture (OPC UA). The Information Model describes standardised *Nodes* of a server's *AddressSpace*. These *Nodes* are standardised types as well as standardised instances used for diagnostics or as entry points to server specific *Nodes*. Thus, the Information Model defines the *AddressSpace* of an empty OPC UA server. However, it is not expected that all servers will provide all of these *Nodes*.

### 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 62541-3, *OPC Unified architecture – Part 3: Address Space Model*

### 3 Terms, definitions, abbreviations and conventions

#### 3.1 Terms and definitions

For the purposes of this document the terms and definitions given in IEC 62541-1 and IEC 62541-3 as well as the following apply.

##### 3.1.1

#### **ClientUserId**

String that identifies the user of the client requesting an action

NOTE The *ClientUserId* is obtained directly or indirectly from the *UserIdentityToken* passed by the *Client* in the *ActivateSession Service* call. See 6.4.3 for details.

#### 3.2 Abbreviations

UA	Unified Architecture
XML	Extensible Markup Language

#### 3.3 Conventions for Node descriptions

*Node* definitions are specified using tables (see Table 2).

*Attributes* are defined by providing the *Attribute* name and a value, or a description of the value.

*References* are defined by providing the *ReferenceType* name, the *BrowseName* of the *TargetNode* and its *NodeClass*.

- If the *TargetNode* is a component of the *Node* being defined in the table the *Attributes* of the composed *Node* are defined in the same row of the table. That implies that the referenced *Node* has a *HasModelParent Reference* with the *Node* defined in the Table as *TargetNode* (see IEC 62541-3 for the definition of *ModelParents*).