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OPC unified architecture -- Part 5: Information model

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Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions, abbreviations and conventions

3.1 Terms and definitions

3.2 Abbreviations

3.3 node description convention

Foreword

GB/T 33863 "OPC Unified Architecture" is divided into the following 13 sections.

--- Part 1. Overview and concepts;

--- Part 2. Safety Model;

--- Part 3. Address space model;

--- Part 4. Services;

--- Part 5. Information model;

--- Part 6. Mapping;

--- Part 7. Rules;

--- Part 8. Data access;

--- Part 9. Alarms and conditions;

--- Part 10. Procedures;

--- Part 11. Historical visits;

--- Part 12. Found;

--- Part 13. Aggregation.

This section GB/T 33863 Part 5.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with IEC 62541-5:2011 "OPC Unified

Architecture Part 5. Information Model."

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124) centralized.

This part of the drafting unit. Machinery Industry Instrumentation Technology and Economy Institute, Chongqing Chuan Yi Automation Co., Ltd., Shanghai

Automation Instrumentation Co., Ltd., Beijing three-dimensional control Technology Co., Ltd., Southwest University, China Tobacco Corporation staff training college.

Introduction

This section provides specifications for OPC Unified Architecture application developers. This standard is given for the development of standard interfaces for analysis and design

The standard interface accelerates application development by multiple vendors and seamlessly integrates internal operations.

OPC Unified Architecture Part 5. Information Model

1 Scope

GB/T 33863 This section defines the OPC Unified Architecture (OPCUA) information model. The information model describes the server address

The standardized node of space. These nodes are of a standardized type and are used for standardized instances of diagnostics or as server-specific nodes

Mouth. Therefore, the information model defines the address space of the empty OPCUA server. However, the server does not need to provide a standard definition

All nodes.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC /T R62541-1 OPC Unified Architecture Part 1. Overview and Concepts
(OPCunifiedarchitecture-Part 1.

Overviewandconcepts)

IEC 62541-3 OPC Unified Architecture Part 3. Addressunit Space Model (OPCunifiedarchitecture - Part 3.

Addresssspacemodel)

3.1 Terms and definitions

IEC /T R62541-1 and IEC 62541-3 define the following terms and definitions apply to this document.

3.1.1

Client user ID ClientUserId

A string identifying the client user requesting the operation.

Note. The client user ID is obtained directly or indirectly from the Useridentity token that is approved by the ActivateSession service call. See details

IEC 62541-3.

3.2 Abbreviations

The following abbreviations apply to this document.

UA.UnifiedArchitecture (Unified Architecture)

XML.ExtensibleMark-upLanguage (Extensible Markup Language)

3.3 node description convention

Specifically use the table node definition (see Table 2).

Define the property by providing the property name and value, or a description of the value.

Define a reference by providing the reference type name, the browse name of the target node, and its node class.

--- If the target node is a component of the table that defines the node, the properties of the corresponding node are defined in the same row in the table. This means table

In the definition of the node is the target node, the referenced node will have HasModelParent (see IEC 62541-3

In the definition of ModelParents).