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**NATIONAL STANDARD OF THE
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GB/T 33863.8-2017

OPC unified architecture -- Part 8: Data access

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3.1 Terms and definitions

Foreword

GB/T 33863 "OPC unified architecture" is divided into the following 13 parts.

- 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. Regulations;

- Part 8. Data access;

- Part 9. Alerts and conditions;

- Part 10. Procedures;

- Part 11. Historical visit;

- Part 12. Discovery;

Part 13. Aggregation.

This part is part 8 of GB/T 33863.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 62541-8..2011 "OPC Unified Architecture Part 8. Data Access".

This part is made by the China Machinery Industry Federation.

This part is headed by the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124).

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Introduction

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

The standard interface speeds up the application development done by multiple vendors and enables seamless connectivity of internal operations.

OPC Unified Architecture Part 8. Data Access

1 Scope

This part of GB/T 33863 is part of the overall OPC Unified Architecture (OPCUA) family of standards that defines data access

(DA) related information model. It specifically includes data access, additional features and other information and behavior required for node class and attribute variables

Type and additional description.

The complete address space model, including all node classes and attributes, is specified in GB/T 33863.3. Detect services and access data

Specified in GB/T 33863.4.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

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

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

Overview and concepts)

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

Address Space Model)

IEC 62541-4 OPC Unified Architecture Part 4. Services (OPC Unified Architecture-Part 4.
Services)

IEC 62541-5 OPC Unified Architecture Part 5. Information Model
(OPC Unified Architecture-Part 5.
Information Model)

3.1 Terms and definitions

The following definitions and definitions as defined in IEC /T R62541-1, IEC 62541-3 and IEC 62541-4 apply to this document.

3.1.1

Data item dataItem

Link to any, real-time automated data, that is, data representing the current valid information.

Note. These data are for example.

- device data (eg temperature sensor);
- calculate data;
- status information (open/close, move);
- Dynamic change system data (eg stock quotes);
- Diagnostic data.

3.1.2

Analog item analogItem

Represents a data item that continuously changes the physical quantity.

Note. Typical examples are temperature sensor and pressure sensor values. OPCUA defines a specific data type to identify the simulation item. Attribute description

The possible range of simulation items.