

CCS N 10



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OPC unified architecture - Part 10: Programs

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Foreword

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

---Part 1.Overview and concepts;

---Part 2.Security Model;

---Part 3.Address space model;

---Part 4.Services;

---Part 5.Information Model;

---Part 6.Mapping;

---Part 7.Rules and Regulations;

---Part 8.Data Access;

---Part 9.Alarms and conditions;

---Part 10.Procedure;

---Part 11.Historical visits;

---Part 12.Discovery;

---Part 13.Aggregation.

This part is part 10 of GB/T 33863.

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

The translation method used in this part is equivalent to IEC 62541-10:2012 "OPC Unified Architecture Part 10.Procedure".

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows.

---GB/T 33863.1-2017 OPC Unified Architecture Part 1.Overview and Concepts (IEC /T R62541-1:2010,

IDT);

---GB/T 33863.5-2017 OPC Unified Architecture Part 5.Information Model (IEC 62541-5:2011, IDT);

---GB/T 33863.7-2017 OPC Unified Architecture Part 7.Profile (IEC 62541-7:2012, IDT).

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Introduction

GB/T 33863 provides a specification for OPCUA application developers. The specification gives an analysis for the development of standard interfaces

And the design process, the standard interface can facilitate the development and application of multiple suppliers, and achieve seamless interoperability.

OPC Unified Architecture Part 10.Procedure

1 Scope

This part of GB/T 33863 specifies the standard representation method and information model of the program in the OPC unified architecture, including the program

Description of node classes, standard features, methods and events, and related behaviors and information.

The complete address space model including all node classes and attributes is specified in GB/T 33863.3.Standardized in GB/T 33863.4

These services are defined for the management program to call methods (Methods).

2 Normative references

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

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 33863.3-2017 OPC Unified Architecture Part 3.Address Space Model (IEC

62541-3.2010, IDT)

GB/T 33863.4-2017 OPC Unified Architecture Part 4.Services (IEC 62541-4.2011, IDT)

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

Overviewandconcepts)

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

model)

IEC 62541-7 OPC Unified Architecture Part 7.Profiles (OPCunifiedarchitecture-Part
7.Profiles)

3.1 Terms and definitions

The following terms and definitions defined by IEC /T R62541-1 and GB/T 33863.3 apply to this document.

3.1.1

Function

The programmed tasks executed on the server or equipment are usually completed by the execution of computer code.

3.1.2

Finite state machine

The sequence of states and effective state transitions, as well as the causes and results of state transitions, these state transitions define procedures according to discrete stages

Actions.

3.1.3

Programtype

The ObjectType node representing the type definition of a certain program is a subtype of FiniteStateMachineType.

3.1.4

Program control method

This section specifies methods with specific semantics, designed to control the program by causing a state transition.

3.1.5