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SINGAPORE STANDARD

OPC unified architecture

– Part 12 : Discovery and global services

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INTERNATIONAL STANDARD

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**OPC unified architecture –
Part 12: Discovery and global services**

**Architecture unifiée OPC –
Partie 12: Services globaux et de découverte**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**OPC unified architecture –
Part 12: Discovery and global services**

**Architecture unifiée OPC –
Partie 12: Services globaux et de découverte**

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OPC UNIFIED ARCHITECTURE –

Part 12: Discovery and global services

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OPC UNIFIED ARCHITECTURE –

Part 12: Discovery and global services

1 Scope

This part of IEC 62541 specifies how OPC Unified Architecture (OPC UA) *Clients* and *Servers* interact with *DiscoveryServers* when used in different scenarios. It specifies the requirements for the *LocalDiscoveryServer*, *LocalDiscoveryServer-ME* and *GlobalDiscoveryServer*. It also defines information models for *Certificate* management, *KeyCredential* management and *Authorization Services*.

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.

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IEC TR 62541-2, *OPC Unified Architecture – Part 2: Security Model*

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 62541-6, *OPC Unified Architecture – Part 6: Mappings*

IEC 62541-7, *OPC Unified Architecture – Part 7: Profiles*

IEC 62541-9, *OPC Unified Architecture – Part 9: Alarms and conditions*

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

X.500: ISO/IEC 9594-1:2017, *Information technology – Open Systems Interconnection – The Directory – Part 1: Overview of concepts, models and services*

IETF RFC 1035, *DNS-Name: Domain Names – Implementation and Specification*
<http://www.ietf.org/rfc/rfc1035.txt>

IETF RFC 2986, *PKCS #10: Certification Request Syntax Specification*
<http://www.ietf.org/rfc/rfc2986.txt>

IETF RFC 3927, *Auto-IP: Dynamic Configuration of IPv4 Link-Local Addresses*
<http://www.ietf.org/rfc/rfc3927.txt>

IETF RFC 5958, *Asymmetric Key Packages*
<http://www.ietf.org/rfc/rfc5958.txt>

IETF RFC 6762, *mDNS: Multicast DNS*
<http://www.ietf.org/rfc/rfc6762.txt>

IETF RFC 6763, *DNS-SD: DNS Based Service Discovery*
<http://www.ietf.org/rfc/rfc6763.txt>

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<http://www.emc.com/emc-plus/rsa-labs/pkcs/files/h11301-wp-pkcs-12v1-1-personal-information-exchange-syntax.pdf>

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