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OPC unified architecture - Part 22: Base network model

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TITLE:

OPC Unified Architecture – Part 22: Base Network Model

PROPOSED STABILITY DATE: 2026

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OPC UNIFIED ARCHITECTURE –

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Part 22: Base Network Model

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FOREWORD

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International Standard IEC 62541-22 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

173

The text of this international standard is based on the following documents:

CDV	Report on voting
65E/XX/CDV	65E/XX/RVC

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Full information on the voting for the approval of this international standard can be found in the report on voting indicated in the above table.

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179 *Italics* are used to denote a defined term or definition that appears in the “Terms and definition” clause
180 in one of the parts of the series.

181 *Italics* are also used to denote the name of a service input or output parameter or the name of a structure
182 or element of a structure that are usually defined in tables.

183 The *italicized terms* and *names* are also often written in camel-case (the practice of writing compound
184 words or phrases in which the elements are joined without spaces, with each element's initial letter
185 capitalized within the compound). For example, the defined term is *AddressSpace* instead of Address
186 Space. This makes it easier to understand that there is a single definition for *AddressSpace*, not
187 separate definitions for Address and Space.

188 A list of all parts of the IEC 62541 series is included in IEC 62541-1 clause 4 Structure of the OPC UA
189 series and published under the general title OPC Unified Architecture, can be found on the IEC website.

190 The committee has decided that the contents of this publication will remain unchanged until the stability
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- 194 • withdrawn,
- 195 • replaced by a revised edition, or
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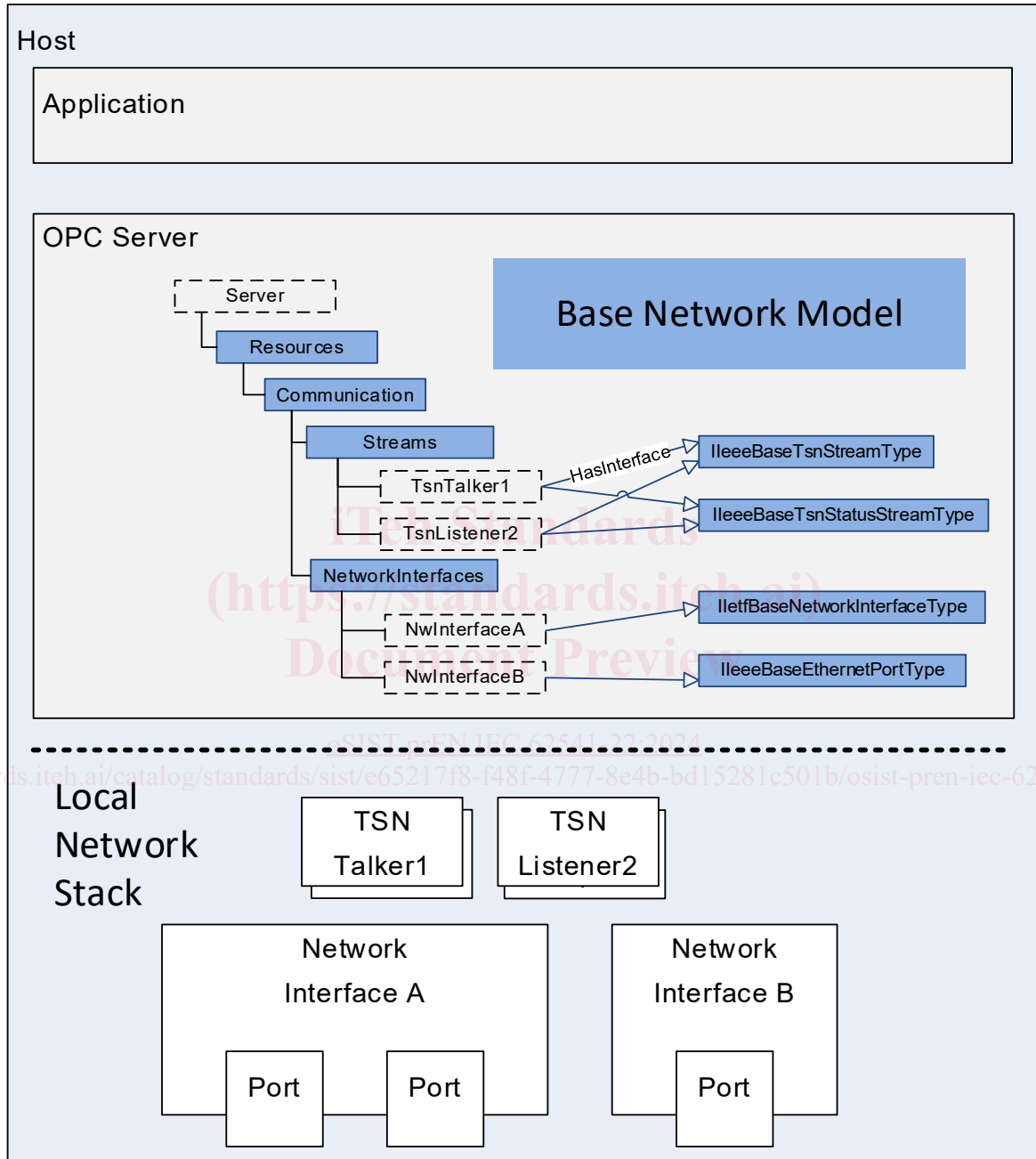
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205 **1 Scope**

206 The Base Network Model (BNM) specifies an OPC UA *Information Model* for a basic set of network
 207 related components to be used in other *Information Models*.

208 The initial version defines parameter sets for TSN Talkers and Listeners as well as network interfaces
 209 and ports as shown in Figure 1. A future version of this document is expected to have a broader scope
 210 of other network technologies than Ethernet only.



211
 212 **Figure 1 – Scope of Base Network Model**

213 **2 Normative references**

214 The following referenced documents are indispensable for the application of this OPC UA part. For
 215 dated references, only the edition cited applies. For undated references, the latest edition of the
 216 referenced document (including any amendments and errata) applies.