
Integracija procesne naprave (FDI) - 6. del: Preslikava tehnologije (IEC 62769-6:2021)

Field Device Integration (FDI) - Part 6: Technology Mapping

Feldgeräteintegration (FDI) - Teil 6: FDI-Technologieabbildungen

Intégration des appareils de terrain (FDI) - Partie 6: Mapping de technologies

Ta slovenski standard je istoveten z: prEN IEC 62769-6:2022

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65E/867/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

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DATE OF CIRCULATION: 2022-03-04	CLOSING DATE FOR VOTING: 2022-05-27
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IEC SC 65E : DEVICES AND INTEGRATION IN ENTERPRISE SYSTEMS	
SECRETARIAT: United States of America	SECRETARY: Mr Donald (Bob) Lattimer
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING
<p>Attention IEC-CENELEC parallel voting</p> <p>The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.</p> <p>The CENELEC members are invited to vote through the CENELEC online voting system.</p>	

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TITLE:

Field Device Integration (FDI) - Part 6: Technology Mapping

PROPOSED STABILITY DATE: 2025

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIELD DEVICE INTEGRATION (FDI) –

Part 6: Technology Mapping

FOREWORD

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IEC 62769-6 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This third edition cancels and replaces the second edition published in 2021. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Separated each technology mapping out to subparts of Part 6 (i.e., Part 6-xxx)

67 The text of this International Standard is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

68

69 Full information on the voting for its approval can be found in the report on voting indicated in the above
70 table.

71 The language used for the development of this International Standard is English.

72 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance
73 with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at
74 www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in
75 greater detail at www.iec.ch/standardsdev/publications.

76 The committee has decided that the contents of this document will remain unchanged until the stability
77 date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific
78 document. At this date, the document will be

- 79 • reconfirmed,
- 80 • withdrawn,
- 81 • replaced by a revised edition, or
- 82 • amended.

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FIELD DEVICE INTEGRATION (FDI) –

Part 6: Technology Mapping

1 Scope

This part of FCG TS62769 specifies the technology mapping for the concepts described in the Field Device Integration (FDI) standard. The technology mapping focuses on implementation of the components FDI Client and User Interface Plug-in (UIP) in the specified technologies for the WORKSTATION platform and the MOBILE platform as defined in FCG TS62769-4. There are individual subparts for the currently supported technologies .NET and HTML5.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the edition of the referenced document (including any amendments), which applies for a specific FDI Technology Version is defined within the FDI Technology Management Document and on the support portals of FieldComm Group and PI International.

FCG TS10099, *Field Device Integration (FDI) – Technology Management*

IEC 62769-1, *Field Device Integration (FDI) – Part 1: Overview*

IEC 62769-6-100, *Field Device Integration (FDI) – Part 6-100: Technology Mapping – .NET*

IEC 62769-6-200, *Field Device Integration (FDI) – Part 6-200: Technology Mapping – HTML5*

HTML5, W3C Recommendation, World Wide Web Consortium (W3C) (2014).

ECMA-262: ECMAScript 2016 Language Specification

ISO/IEC 19505-1, *Information technology – Object Management Group Unified Modeling Language (OMG UML) – Part 1: Infrastructure.*

3 Terms, definitions, abbreviated terms, acronyms and conventions

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62769-1 apply.

3.2 Abbreviated terms and acronyms

For the purposes of this document, the abbreviated terms and acronyms given in IEC 62769-1 as well as the following apply.

CLR	Common Language Run-time
UML	Unified Modeling Language

3.3 Symbols

Figures in this document use the graphical symbols according to ISO/IEC 19505-1 (UML 2.0).

119 **4 Platforms and Runtime**

120 **4.1 Runtime**

121 **4.1.1 .NET Framework**

122 A UIP for the .NET-based runtime shall be built upon the Microsoft .NET Framework and executed in
123 the .NET Common Language Runtime. The RuntimeId is ".NET Framework CLR<<CLR_Version>>". The
124 concrete versions of the required .NET Framework and the CLR are specified in FCG TS10099 FDI
125 Technology Management.

126 IEC 62769-6-100 specifies the detailed technology mapping.

127 **4.1.2 HTML5**

128 A UIP for the HTML5-based runtime shall be built upon HTML5 (see HTML5, W3C Recommendation),
129 ECMAScript (see ECMA-262) and Cascading Style Sheets. The RuntimeId is "FdiHtml<<Version>>". The
130 version and thus the concrete features to be supported are specified in .

131 IEC 62769-6-200 specifies the detailed technology mapping.

132 **4.2 Platforms**

133 **4.2.1 Workstation**

134 The individual RuntimeIds to be supported by an FDI Client for the Workstation platform are specified in
135 FCG TS10099.

136 The PlatformId for the Workstation platform is "Workstation".

137 **4.2.2 Mobile**

138 The RuntimeIds to be supported by an FDI Client for the Mobile platform are specified in FCG TS10099.

139 The PlatformId for the Mobile platform is "Mobile".

140 <https://standards.iteh.ai/catalog/standards/sist/c2520d6c-5fc9-46a1-b4db-1aa124c5fadf/osist-pren-iec-62769-6-2022>

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141	Bibliography
142	IEC 62769-4, <i>Field Device Integration (FDI) – Part 4: FDI Packages</i>
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