



Irish Standard
I.S. EN ISO 16739-1:2024

Version 2.00

Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries - Part 1: Data schema (ISO 16739-1:2024)

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National Foreword

I.S. EN ISO 16739-1:2024 V2.00 is the version of the NSAI adopted European document EN ISO 16739-1:2024, *Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries - Part 1: Data schema (ISO 16739-1:2024)*, including any Corrections, Amendments etc. to EN ISO 16739-1:2024 listed on page(s) II.

This normative document by CEN/CENELEC the elaboration of which includes a public enquiry, followed by a Formal Vote of CEN/CENELEC national members and final ratification. This European Standard is published as an identical national standard and every conflicting national standard will be withdrawn. The content of a European Standard does not conflict with the content of any other EN (and HD for CENELEC).

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 16739-1

April 2024

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Supersedes EN ISO 16739-1:2020

English Version

Industry Foundation Classes (IFC) for data sharing in the
construction and facility management industries - Part 1:
Data schema (ISO 16739-1:2024)

Classes IFC pour le partage des données dans le secteur
de la construction et de la gestion de patrimoine -
Partie 1: Schéma de données (ISO 16739-1:2024)

Industry Foundation Classes (IFC) für den
Datenaustausch in der Bauwirtschaft und im
Anlagenmanagement - Teil 1: Datenschema (ISO
16739-1:2024)

This European Standard was approved by CEN on 3 February 2024.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 16739-1:2024) has been prepared by Technical Committee ISO/TC 59 "Buildings and civil engineering works" in collaboration with Technical Committee CEN/TC 442 "Building Information Modelling (BIM)" the secretariat of which is held by SN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 16739-1:2024 has been approved by CEN as EN ISO 16739-1:2024 without any modification.

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ISO 16739-1:2024

**Industry Foundation Classes (IFC) for data sharing in the construction
and facility management industries**

**Part 1:
Data schema**

*Classes IFC pour le partage des données dans le secteur de la
construction et de la gestion de patrimoine*

*Partie 1:
Schéma de données*

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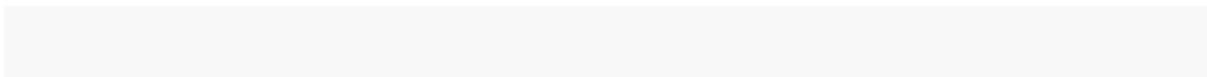
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1 Scope

This document represents an open international standard for information used in Building Information Modeling (BIM) that is exchanged and shared among software applications used by the various participants in the construction or facility management industry sector. This document includes definitions that cover information required for buildings and infrastructure works over their life cycle. This edition of the document added coverage of information required for infrastructure facilities including bridges, roads, railways, waterways and port facilities.

This document comprises the publication of a data schema, its documentation, the property and quantity set definitions and the mechanism of an exchange file format structure.

Definitions from this document are used to support different recognized work flows in the construction and facility management industry sector, representing information deliveries. Such information deliveries can be described according to ISO 29481.

Different implementation levels of this document can be defined to better support multiple information deliveries, they are referred to as a Model View Definition (MVD). Each MVD identifies which subset of the definitions of this document imposes requirements for implementation in software applications. Conforming software applications need to identify the model view definition they conform to when applying for software certification.

The following are within the scope of this edition of this document:

1. BIM exchange format definitions that are required during the life cycle phases of buildings and infrastructure:
 - demonstrating the need;
 - conception of need;
 - outline feasibility;
 - substantive feasibility study and outline financial authority;
 - outline conceptual design;
 - full conceptual design;
 - coordinated design;
 - procurement and full financial authority;
 - production information;
 - construction;
 - operation and maintenance.
2. BIM exchange format definitions that are required by the various disciplines involved within the life cycle phases:
 - architecture and civil engineering design;
 - service and utilities engineering;
 - structural engineering;
 - procurement;
 - construction planning;

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