



National BIM Standard - United States® Version 3

2 Reference Standards

2.2 ISO 16739, Industry Foundation Class 2X3 – February 2006

2.2.1 Scope

The scope of ISO 16739, Industry Foundation Class (IFC) 2X3, February 2006, authored by buildingSMART International, is to provide a neutral exchange format based on STEP/XML. The approved exchanges within NBIMS-US™ is IFC 2X3. The current international specification for IFC is 2X3-TC1.

2.2.2 Normative references

The following referenced documents are indispensable for the application 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.

- IFC 2X3 Specification, February 2006, <http://buildingsmart-tech.org/specifications/ifc-releases/ifc2x3-release>
- IFC Certification, <http://buildingsmart-tech.org/certification>

2.2.3 Terms, definitions, symbols, units and abbreviated terms

For the purposes of this document, the following terms, definitions, symbols, units and abbreviated terms apply.

2.2.3.1

architect, engineer, contractor

AEC

2.2.3.2

implementation support group

promotes the use of IFCs for the exchange and sharing of Building Information Models among different software products, <http://buildingsmart-tech.org/about-us/isg>

2.2.3.3

Industry Foundation Class

IFC

2.2.3.4

information delivery manual

IDM

buildingSMART International standard for processes (formerly known as the information delivery manual (IDM)) specifies when certain types of information are required during the construction of a project or the operation of a built asset; provides detailed specification of the information that a particular user (such as architect or building services engineer) needs to provide at a point in time and groups together information that is needed in associated activities: cost estimating, volume of materials, and job scheduling are natural partners

2.2.3.5**model support group**

technical group that works with and develops the IFC Standard, <http://buildingSMART-tech.org/about-us/msg>

2.2.3.6**model view definition****MVD**

defines a subset of the IFC schema that is needed to satisfy one or many exchange requirements of the AEC industry; method used and propagated by buildingSMART International to define such exchange requirements is the information delivery manual (IDM). Also see ISO/DIS 29481; IFC MVD defines a legal subset of the IFC schema (being complete) and provides implementation guidance (or implementation agreements) for all IFC concepts (classes, attributes, relationships, property sets, quantity definitions, and others) used within this subset. It thereby represents the software requirement specification for the implementation of an IFC interface to satisfy the exchange requirements. Whereas the general exchange requirement is independent of a particular IFC release, the realization (or binding) within the model view definition is specific to an IFC release.

2.2.4 ISO 16739, Industry Foundation Class (IFC) 2X3, February 2006**2.2.4.1 Introduction**

ISO 16739, Industry Foundation Class 2X3 (IFC 2X3) is an existing industry standard developed, managed, published and copyrighted by the buildingSMART International, approved through the NBIMS-US™ consensus process. *ISO 16739, Industry Foundation Class 2X3* is incorporated in NBIMS-US™ by reference so that it can be easily referenced in BIM Information Exchanges.

- IFC 2X3 Specification, February 2006, <http://buildingSMART-tech.org/specifications/ifc-releases/ifc2x3-release>
- IFC Certification, <http://buildingSMART-tech.org/certification>

2.2.5 Bibliography

None