

Mandated use of open standards

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Waltham, March 14, 2013

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- **USA**
- **UK**
- **Norway**
- **Finland**
- **Denmark**

USA

- **GSA**
- **Air force Flight Plan**
 - IFC Coordination View The Contractor's selected BIM application(s) and software(s) must be certified in the IFC Coordination View (2x3 or better. See www.iai-tech.org). Submit any deviations from or additions to the IFC property sets for any new spaces, systems, and equipment for Government approval.
 - http://www.wbdg.org/docs/afcee_attachf_bimrequire_db.doc

USA

- **Department of Veteran Affairs**

- 3D Geometric Deliverables—Construction Coordination Model
- The Contractor shall be responsible for providing VA consolidated as-built Model(s) for all building systems. The Model(s) shall be fully coordinated and align with the Design Model for architecture and structure; the required instructions on file/folder setup shall also be included:
 - Contractor—Native file formats of the final consolidated as-built Model(s) for building systems used in the multi-discipline coordination process (version as agreed in BIM Management Plan)
 - Contractor—IFC file format of the consolidated building systems models (version as agreed in BIM Management Plan)
- <http://www.cfm.va.gov/til/bim/BIMGuide/modreq.htm#108>

USA

- **State of Wisconsin**

- Building Information Modeling(BIM)1.5. IFC compliance BIM Authoring software shall be compliant with the latest release of the Industry Foundation Classes (IFC) as certified by the buildingSMART Alliance.
- ftp://doafpt04.doa.state.wi.us/master_spec/DSF%20BIM%20Guidelines%20&%20Standards/BIM%20Guidelines%20and%20Standards.pdf

- **State of Ohio**

- IFC Compliance: BIM authoring software shall be compliant with the latest release of the Industry Foundation Classes (IFC) as certified by the buildingSMART alliance
- http://www.buildingsmartalliance.org/client/assets/files/bsa/state_of_ohio_bim_requirements.pdf

USA

- **State of Minnesota**

- (f) "Open standards" means specifications for the encoding and transfer of computer data that:
 - (1) is free for all to implement and use in perpetuity, with no royalty or fee;
 - (2) has no restrictions on the use of data stored in the format;
 - (3) has no restrictions on the creation of software that stores, transmits, receives, or accesses data codified in such way;
 - (4) has a specification available for all to read, in a human-readable format, written in commonly accepted technical language;
 - (5) is documented, so that anyone can write software that can read and interpret the complete semantics of any data file stored in the data format;
 - (6) if it allows extensions, ensures that all extensions of the data format are themselves documented and have the other characteristics of an open data format;
 - (7) allows any file written in that format to be identified as adhering or not adhering to the format;
 - (8) if it includes any use of encryption, provides that the encryption algorithm is usable on a royalty-free, nondiscriminatory manner in perpetuity, and is documented so that anyone in possession of the appropriate encryption key or keys is able to write software to unencrypt the data.
 - <https://www.revisor.mn.gov/bin/bldbill.php?bill=H3971.0.html&session=ls84>

UK

- **The Government Construction Strateg**

- The Government Construction Strategy was published by the Cabinet office on 31 May 2011. The report announced the Governments intention to require: collaborative 3D BIM (with all project and asset information, documentation and data being electronic) on its projects by 2016.
- <http://www.bimtaskgroup.org/>

Norway

- **South-Eastern Norway Regional Health Authority**
 - From 01/01/2014, all information that architects, consultant, contractors, etc. stores in their discipline models could be exported to openBIM (IFC). All information will be stored on the latest publicly available version of the open BIM - IFC format. Similarly, specialized systems could import all the data stored in openBIM (IFC).
 - http://www.helse-sorost.no/omoss/avdelinger/bygg-og-eiendom/Documents/BoE%20Vedlegg%203%20-%20BIM-strategi%20for%20Helse%20Sor-Ost_Rev1-0-1.pdf

Finland

- **Senate Properties' BIM requirements 2007**
 - Since 2001, Senate Properties has carried out a number of pilot projects to develop and study the use of building information models. Based on feedback from these, Senate Properties has assessed product model technology to be sufficiently ready for putting to use in ordinary project work, and the company has decided to **require models meeting the IFC standard in its projects as of 1 October 2007.**

Sweden

- **Locum AB is one of Sweden's larger property managers with a property portfolio of about 2.1 million square meters in the Stockholm region. Major tenants are healthcare institutions in Stockholm County.**

Locum AB is owned by the Stockholm County Council.

Locum's core values are Competence, Sustainability and A businesslike Approach.

– <http://www.locum.se/In-English/>

- **The requirement is that everything is delivered as IFC files with the original models**
 - http://www.openbim.se/documents/OpenBIM/Infoblad/Locum_satsar_pa_BIM_i_alla_sina_fastigheter.pdf

Denmark

buildingSMART Newsletter

- Denmark is among a handful of pioneering countries that require the use of IFC in public sector buildings. As from 1 April 2013, local authorities and social housing providers will also **require IFC use in all projects** above €3 million and €0.8 million in state projects – making it the first country in the world to implement an IFC requirement across all public buildings.
- <https://www.retsinformation.dk/Forms/R0710.aspx?id=144517>
- <https://www.retsinformation.dk/Forms/R0710.aspx?id=145421>



The Minister Carsten Hansen

The Minister Martin
Lindegaard



Others?