



AISC CIS/2 Workshop



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NIST

National Institute of Standards and Technology
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CIS/2 – IFC Gap Analysis

- CIS/2 – IFC Harmonization Project, Georgia Tech 2005, AISC funded, IAI involved, recommended extensions to IFC and CIS/2, developed translator for certain use cases, never implemented
 - <http://www.coa.gatech.edu/~aisc/cisifc/>
- NIST SteelVis - CIS/2 to IFC Translator, 2005, research papers on mapping between CIS/2 and IFC, widely used but does not solve all problems, implements lots of workarounds
 - <http://cic.nist.gov/vrml/cis2.html>
- Gap analysis to identify limitations for modeling steel with IFC
 - http://cic.nist.gov/vrml/cis/CIS2_IFC_Gap_table.pdf
 - Response to the fact that steel models are being exchanged with IFC, but what information is being exchanged
 - Major differences - implicit vs. explicit geometry, semantic information, design vs. analysis vs. detailed model
- The wheels turn very slowly for IFC schema development, software implementations and certification, IFC2x4 will be released soon, very few improvements for steel, need workarounds
 - Newly formed IFC Implementers Support Group for structural issues is interested in steel
 - IFC moving forward with precast concrete and cast-in-place

CIS/2 Websites

- <http://www.cis2.org/> – original website, Andrew Crowley (Steel Construction Institute UK), outdated but lots of useful hidden information, links to the CIS/2 manuals, no longer maintained
- <http://www.arch.gatech.edu/~aisc/> - Georgia Tech, test files, tutorials, documents, exchange capabilities matrix, CIS/2-IFC Harmonization, no longer maintained
- <http://cic.nist.gov/vrml/cis2.html> - NIST, SteelVis, links to everything CIS/2, VRML examples, all known CIS/2 implementations, some IFC information, up-to-date
- <http://www.aisc.org/content.aspx?id=17574> - AISC, currently only marketing, workshop information on old website
- Current needs – consolidate into one, updated end-user vs. software developer information, exchange capabilities, implementation guide, relationship to IFC, marketing, BIM,
- Where to host - AISC or some other domain?
- Who will develop the content?

How did we get where we are today?

- Up until 2006, frequent CIS/2 workshops (1-2/year) for software developers, conference calls to discuss technical issues, NASCC booth and demos, brochure, CD, video, 32MB CIS/2 memory stick
- More recently (past 2 years), meetings to jumpstart new activities (AISC IT committee, conference calls), issues discussed include:
 - Process mapping (moving forward)
 - IFC – CIS/2 interaction (gap analysis report, where does it go from here?)
 - Discussion forum (Google group, activity has slowed)
 - Website (started discussion), developer documentation (?)
 - Access to CIS/2 manuals (soon to be available from AISC at a discount)
 - Test cases, conformance and interoperability testing, certification (discussed at meetings and telecons, ?)
 - More interaction between and technical discussions with software developers (one telecon, point-to-point, ?)
 - Vendor survey (follow-up on results?)
 - Standard maintenance and update (?)
 - NASCC booth, information in vendor booths (?)
 - New CIS/2 organization, charter, budget, executive committee (?)

How does CIS/2 move forward?

- Brainstorm your CIS/2 issues
- Rank your top five (or more)
- Are there other issues that have been missed?
- Solutions to what, how, who, when

- What is not in scope? Past eConstruction/eCommerce roundtables issues (bigger pictures issues, legal, contracts, insurance, IPD, BIM, “why can’t I get the model from the engineer”)

- Breakout sessions based on issues, software vendor, engineer, detailer, fabricator? (never had the breakout sessions)

- Need more time, effort, and participation to develop solutions