



NCS goes BIM: Building Information Modeling Implementation for the National CAD Standards

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Much of the building industry still requires and relies upon CAD-based and sheet-centric project information delivery. The National Building Information Modeling Standard-United States (NBIMS-US) doesn't define graphical standards, so the United States National CAD Standard (NCS) is an indispensable reference standard for the foreseeable future. Several changes have occurred in the NCS and NBIMS for versions releasing in late 2014. NCS V6 has added a new Building Information Modeling (BIM) Implementation Section, and there are ongoing efforts to further develop new content. This round table gives attendees an overview of the new section and the opportunity to participate in further development. Attendees will identify common business challenges that the National Standards can alleviate and they will develop a list of effective practices to help make project delivery consistent throughout the building industry. We will make content from this session available to attendees, and it will become a basis for revision ballots to the National Standards.

Learning Objectives

At the end of this class, you will be able to:

- Learn to identify basic BIM guidelines and effective practices that you should implement for your BIM projects
- Understand the content in the NCS V6 BIM implementation section
- Provide input for further development of BIM implementation within the NCS
- Understand why and how to become involved in national standards development

About the Speaker

Johnny Fortune serves as the Building Information Modeling (BIM) director at Bullock Tice Associates, Inc. (BTA), in Pensacola, Florida. He is an Autodesk Certified Professional in Revit Architecture 2009 to 2014 software and in AutoCAD 2014 software. Johnny has led the complete transition from CAD to BIM production for BTA, and he directs the company's overall BIM strategies, standards, and technology operations while he oversees BIM integration with BTA's Engineering Team members. He is currently a member of several national committees, including the National CAD Standards Project Committee, the United States National BIM Standard Project Committee, and the United States Army Corps of Engineers / Industry BIM Committee. He is chair of the National CAD Standard (NCS) BIM AdHoc Task Team, which is responsible for developing the BIM implementation section of the NCS and for identifying how national standards interconnect. He also serves on the National BIM Standard-U.S. (NBIMS-US) Planning Committee and has presented at Autodesk University 2013, at National Institute of Building Sciences Building Innovation 2014 Conference and Expo, and at various Society of American Military Engineer events. j.fortune@bulltice.com

NOTE: This class is a roundtable session and as such a brief summary will be provided after Autodesk University concludes. The summary will be available on the AU website at a date to be determined (typically mid-January). Although a handout is not required for roundtable sessions, this document is provided as a prep to the discussions.

The Following outline is the basic format of our discussion:

Learn to identify basic BIM guidelines and effective practices that you should implement for your BIM projects

An overall goal of the roundtable. Through discussion, attendees will be able to identify guidelines and best practices of others in the industry. Attendees will gain knowledge of how to implement those ideas for their respective companies or organizations.

Understand the content in the NCS V6 BIM implementation section

We'll review the nature of the content regarding BIM that has been added to NCS V6, talk about the process for developing, and future plans. What's in the BIM Implementation section?

- Introduction
- References
- Clarifications
 - Commentary and examples relating to each section of the NCS
 - Basic clarifications with some minor exclusions
- Basic BIM Guidelines
 - Guidelines dealing with Authoring Content
 - Guidelines for Model Coordination and Delivery
- Summary

Provide input for further development of BIM implementation within the NCS

This section is the heart of our discussion. This will provide attendees the opportunity to further shape the BIM Implementation section within the NCS. Think about the following questions to get ready for the discussion:

- What areas of the NCS is applicable to BIM use?
- What content is easily implemented and what is problematic?
- What needs to be standardized to work with team members outside of your organization?
- What are your pain points for BIM standards?
- If you had to write a BIM standard from scratch, where would you start?
- What kind of deliverables are typically required and how can BIM standards help streamline the delivery process?

Understand why and how to become involved in national standards development

Why?

- Opportunity to affect the industry
- Opportunity to be a part of something bigger than yourself or your business
- Ensure your facet of the industry is represented
- Potential increase in marketability

How?

- NCS <http://www.nationalcadstandard.org/ncs6/getinvolved.php>
- NBIMS-US <http://www.nationalbimstandard.org/getinvolved.php>