January 12, 2016

Executing the Plan
Alliance Sponsors

- Burns & McDonnell
- Legrand
- American Society of Professional Estimators
- Component Assembly Systems
- Steven Winter Associates
- Charles Pankow Foundation
- Virginia Department of Housing and Community Development
- Newforma, Inc
- Kristine Fallon Associates, Inc.
- DIALOG
- National Association of Home Builders
- McCarthy
- International Association of Plumbing and Mechanical Officials
- Dee Cramer
- Honeywell, International
- Hammel, Green and Abrahamson, Inc.
- Onuma, Inc.
- Wisconsin Department of Administration, Division of State Facilities
- ARCHIBUS
- FM Systems
- ArchipDATA
- NASA
- Vectorworks
- Jaros, Baum & Bolles
- National Institute of Building Sciences 
  buildingSMART alliance®
<table>
<thead>
<tr>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Concrete Institute (ACI)</td>
</tr>
<tr>
<td>American Institute of Building Design (AIBD)</td>
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<tr>
<td>American Institute of Steel Construction (AISC)</td>
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<tr>
<td>American Society of Plumbing Engineers (ASPE)</td>
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<tr>
<td>American Society of Professional Estimators (ASPE)</td>
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<tr>
<td>Associated Builders &amp; Contractors, Inc. (ABC)</td>
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<tr>
<td>Association for the Advancement of Cost Engineers (AACE)</td>
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<tr>
<td>Association of the Wall and Ceiling Industry (AWCI)</td>
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<tr>
<td>buildingSMART Canada (BSC)</td>
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<tr>
<td>buildingSMART Korea (BSK)</td>
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<tr>
<td>buildingSMART UK &amp; Ireland (BSUK &amp; I)</td>
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<tr>
<td>Campus FM Technology Association (CFTA)</td>
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<tr>
<td>Canadian BIM Council</td>
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<tr>
<td>Construction Specifications Institute (CSI)</td>
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<tr>
<td>Faithful &amp; Gould</td>
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<tr>
<td>FIATECH</td>
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<tr>
<td>International Facility Management Association (IFMA)</td>
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<tr>
<td>International Institute for Sustainable Laboratories (I2SL)</td>
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<tr>
<td>Mechanical Contractors Association of America (MCAA)</td>
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<td>National Electrical Contractors Association (NECA)</td>
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<td>National Fenestration Rating Council (NFRC)</td>
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<td>Open Geospatial Consortium, Inc. (OGC)</td>
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<td>RICS Americas, Inc. (RICS)</td>
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<tr>
<td>Sheet Metal &amp; Air-Conditioning Contractors National Association (SMACNA)</td>
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<tr>
<td>U.S. Institute of Building Documentation (USIBD)</td>
</tr>
</tbody>
</table>
2015 Board of Direction

Johnny Fortune
Chair

John Messner
Vice Chair

Van Woods
Secretary

Sasha Reed
Advisor

Andy Smith
Past Chair

Dominique Fernandez
NIBS Staff

National Institute of Building Sciences buildingSMART alliance®
Agenda

• 1:30 pm – 2:30 pm  Alliance Annual Meeting
• 2:30 pm – 3:30 pm  Alliance Subcommittee Planning
• 3:30 pm – 4:00 pm  Break
• 4:00 pm – 4:30 pm  NBIMS-US™ Reassessment Report Review
• 4:30 pm – 5:00 pm  BIM Leaders Panel
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State of the Alliance

• Improved financial stability
• Completed and Published the 2015 Strategic Plan
• Transitioned into a new leadership model
• Implemented New Communications Plan
• Implemented a new organizational structure based around functional Subcommittees and Task Groups.
• Updated the Alliance Charter
• Funded and executed the publication of NBIMS-US™ V3
• Established Subcommittees & stood-up COBie TG
Communications Plan

• Weekly Meeting – Board of Direction
• Bi-weekly Meeting – Board of Direction & Subcommittee Chairs
• Bi-Monthly Meeting – Sponsors/MOA Holders
• Quarterly Meetings – All members
The NCS addresses paper-centric drafting as a means of producing design and construction drawings. NBIMS sets standards for typical processes and computer-based exchanges of information employed during the conception, creation, and operation of facilities.

https://www.nationalbimstandard.org/faqs

100’s of volunteers make these possible!

National Institute of Building Sciences  buildingSMART alliance®
National BIM Standard - United States® Version 3

Published: July 22, 2015

Site Visits by Countries
Top 7

<table>
<thead>
<tr>
<th>Country</th>
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<td>UK</td>
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<td>Germany</td>
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<td>Canada</td>
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<tr>
<td>Italy</td>
<td>414</td>
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<tr>
<td>Russia</td>
<td>407</td>
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</table>

Site Visits | 14,572
Countries   | 135

Downloads
PDF         | 7,487
ZIP         | 2,294

19 reference standards
9 information exchanges
8 Practices Guidelines

www.nationalbimstandard.org
Product Updates

Key Updates and Additions

• More Discipline support (Civil, Surveyor/Mapping, Airport Design, Plumbing)
• Major updates to downloadable content (symbols) and new content added
• BIM Implementation Section

NCS V6 Subscribers

<table>
<thead>
<tr>
<th>CONTENT</th>
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</thead>
<tbody>
<tr>
<td>AIA Layer Guidelines</td>
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<td>Uniform Drawing System</td>
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<td>BIM Implementation</td>
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<td>Plotting Guidelines</td>
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</table>

<table>
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<th>Registered Users</th>
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<td>Licenses</td>
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</table>

www.nationalcadstandard.org

National Institute of Building Sciences  buildingSMART alliance®
Strategic Plan

Align
- Vision
- Mission
- Goals

Organize
- Structure
- Roles

Develop
- Projects
- Products

Vision: A sustainable and efficient architecture, engineering, construction, owner and operator industry enabled with effective work processes based on collaboration, information technology and open standards.
Strategic Plan

Vision
A sustainable and efficient architecture, engineering, construction, owner and operator industry enabled with effective work processes based on collaboration, information technology and open standards.

Mission
To lead the development and deployment of broadly adopted national information standards and practices focused on significantly improving the built environment delivery and operation processes.
Vision

A sustainable and efficient architecture, engineering, construction, owner and operator industry enabled with effective work processes based on collaboration, information technology and open standards.
Mission

To lead the development and deployment of broadly adopted national information standards and practices focused on significantly improving the built environment delivery and operation processes.
Goals

The buildingSMART alliance® will achieve our vision regarding effective information technology adoption within the industry by:

• Providing thought leadership for industry work process improvements
• Enabling and promoting the development of information standards
• Providing a forum to share and develop proven practices
• Developing, promoting and delivering education on information standards and proven practices
• Developing a business model that sustains the programs and activities through the investment and involvement of members and non-members alike, representing both the public and private sectors
Sustainable Practices

• Project Execution Focus
• Diversity
• Leadership
Officers Election

• Nominations Committee Summary
  – Committee establish in November 2015
    • Brad Dubinsky / John Sullivan / Paul Audsley / Tim Haahs
  – “Alliance Call for Nominations”
    • Notification sent on November 25, 2015 (with weekly updates)
    • Deadline for submission of nominees December 20, 2015
    • Review of candidates January 12, 2016
    • Online voting from January 18 – 29
    • New officers seated on February 9, 2016
  – Nominees
    • Chair: Johnny Fortune (1st Year) / John Rapaport
    • Vice Chair: John Messner (1st Year)
    • Secretary: Van Woods (1st Year)

*Officers may serve up to two consecutive one year terms in each position
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Alliance Subcommittees

buildingSMART alliance®

Board of Direction

Organization Management

- Thought Leadership
- Information Standards
- Proven Practices
- Education

Development Subcommittees

Relationship Subcommittees

Communications

Membership

Industry Liaisons

Kimon Onuma

Robert Anderson

Connor Christian

* Communications Subcommittee Chair, Lachmi Khemlani unable to attend
Thought Leadership
IT IS A BIG BIM UNIVERSE
THOUGHT LEADERSHIP
THE 2016 BIM FORCE AWAKENS

Brad Dubinsky
BIM Delivery Commander

Yong Ku Kim
BIM SkyWalker

Mike Chipley
Cyber BIM Master

Jed Fisher
Agile BIM Ninja

Steve Hagan
The BIM Father

Kimon Onuma
BIM Stormtrooper

Mike Bordenaro
BIM Agent

Renee Tietjen
Owner's Voice

Finith Jernigan
BIG BIM Daddy

Jason Reece
BIG BIM Builder

John Roach
Ecosystem Captain
Thought Leadership

• Main Points from the bSa Strategic Plan for Thought Leadership:
  – Emerging trends and existing barriers
  – Tactical actions, Incubate innovative ideas
  – Proof of concepts, prototypes, white papers, reports
Top 3 Thoughts ...

1. Think & Execute
2. Use the Strengths of bSa Standards & Expand to Technologies of 2016
3. Expand the Universe of bSA
1. Think & Execute
   - Use strengths of NIBS network and projects
   - Make NIBS projects part of bSa focus
   - Products such as BIM Guides, WBDG, FEDiFM, SEPS2BIM are all relevant
   - UK has a BIM mandate...
     - US has large owners, Silicon Valley (IT Leaders) and NIBS assets that can help bSa and the BIM Universe
     - Large agencies, by default working with NIBS
Thought #2

2. Use the Strengths of bSa Standards & Expand to Technologies of 2016

- MVP – Minimum Viable Product – Deliver Now
  - Agile Development
- Ecosystems
  - Data as an Asset - Big Data
  - Mobile First, App Economy
  - Pull rather than only push
  - Loose Connections, Plug and Play
  - Services Oriented Architecture
3. Expand the Universe of bSA

- Get “non BIM” participants into bSA
  - Ask for their input
- Build relations with other associations as a means of expanding the BIM Universe
- Simple ways to get started
  - Digest the complexity of bSA to products and entry points
  - Vendors who have data but do not “do BIM”
- Deliver products, keep it simple
  - Continuous improvement of product with regular (frequent) iteration. For example multiple releases a year versus one large one every year or two.
Questions from bSa

• Charter of Thought Leadership
• What activities this year?
• If you could accomplish one thing ...
Make the US Building Industry a Driving Force in the World

Increase Industry Participation in bSa
Information Standards
IS Subcommittee—Mission

• Objectives
  – Become an industry-recognized source for
    • the development of information standards
    • engagement with industry associations activities
  – Enable the development of information standards by industry professionals and software providers, including:
    • the *United States National CAD Standard®*
    • *National BIM Standard-United States®*,

• Activities
  – Develop and maintain an organization(al) structure for information standards
  – Identify and manage information exchange task groups to develop or evaluate potential information standards
  – Define and consistently improve processes for the development of information standards
NBIMS—Challenges

• NBIMS has had lots of free downloads, but its value is difficult to establish
• NBIMS is primarily a compilation of standards that exist elsewhere
• No hierarchy or framework for the NBIMS stds (OmniClass == COBie)
  ...and perhaps, as a result,
• NBIMS hasn’t been implemented by software vendors to date
NBIMS–A Vision (~5 years)

• NBIMS is a group of well-defined exchange modules implementable in BIM software

• Some SW vendors will have implemented NBIMS (partially or completely)

• There is a cloud-based test for NBIMS exchange quality (usable by anyone)*
  ...and perhaps, as a result,

• Open-standards interoperability quality and usability is greatly increased

*and perhaps serving as a revenue stream for bSa
• How do we get started?
• We need a map
• We need to become ...
• Cartographers of the Building Process
Exchange definitions are awaiting us...

**IFC Solutions Factory**
The Model View Definition site

### BuildingSMART MVDs

<table>
<thead>
<tr>
<th>Name</th>
<th>Reference</th>
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<tbody>
<tr>
<td>Basic HandOver to Facility Management</td>
<td>GSC-001</td>
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### Other International Organizations MVDs

<table>
<thead>
<tr>
<th>Name</th>
<th>Reference</th>
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<tbody>
<tr>
<td>Architectural Design to Building Energy Analysis</td>
<td>GSA-003</td>
</tr>
<tr>
<td>Architectural Design to Circulation/Security Analysis</td>
<td>GSA-002</td>
</tr>
<tr>
<td>Architectural Design to Quantity Takeoff for Cost Estimating</td>
<td>GSA-004</td>
</tr>
<tr>
<td>Architectural Design to Spatial Program Validation</td>
<td>GSA-001</td>
</tr>
<tr>
<td>Concept Design BIM 2010</td>
<td>GSA-005</td>
</tr>
<tr>
<td>Design to Code Compliance Checking (ICC 2006)</td>
<td>ICC-001</td>
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<tr>
<td>Early Concept Design to Analysis</td>
<td>GSA-006</td>
</tr>
<tr>
<td>Nordic Energy Analysis (subset of CDB-2010)</td>
<td>NOW-001</td>
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### Other Active MVD Projects

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<th>Name</th>
<th>Reference</th>
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<tr>
<td>Architectural design to landscape design</td>
<td>CRC_CI-003</td>
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<tr>
<td>Architectural design to structural design</td>
<td>VBL-002</td>
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<td>Architectural design to thermal simulation</td>
<td>VBL-007</td>
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<td>Architectural Programming to Architectural Design</td>
<td>BSI-001</td>
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<tr>
<td>Curtain Wall Design to Energy Analysis</td>
<td>UNSW-001</td>
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<tr>
<td>Extended coordination view</td>
<td>ISG-001</td>
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**Statistics (January 7, 2016, 11:30 am)**

- 29 Model Views
- 92 Main Concepts
- 1578 Static Concepts with 2099 Bindings
- 74 Organizations represented by 135 Persons
...and New Tools are at our disposal

ifcDoc – the new MVD development tool

buildingSMART is eager to support developers in reusing its leading openBIM standard IFC as a baseline to set up specific data exchange protocols to satisfy exchange requirements in industry. Based on the newly developed mvdXML standard, just Model View Definitions can now be easily developed using the ifcDoc tool.

News

buildingSMART International has released a free tool, ifcDOC, for creating Model View Definitions. This is the same tool used for producing the official IFC4 documentation as well as various Model View Definitions such as the Coordination View V2.0 or COBie.

The tool runs on Windows XP and later, providing a graphical interface for specifying data model subsets, instance graphs, constraints, and supporting documentation. It is based on the recently published official buildingSMART standard for Model View Definitions, mvdXML.

Documentation may be automatically produced, including HTML, diagrams, schema definitions, indices, and contents, such that readers of the documentation have everything needed in one place, and nothing they don’t.

mvdXML files may be consumed by test servers for validating files (and authoring applications) for conformance, and may be consumed by software applications for automatically transforming data. The official buildingSMART International certification server is in the process of enabling direct reading of mvdXML to set up a certification process.

Get involved

For industry participants and software developers interested in creating or adapting MVDs, download the ifcDOC tool from the buildingSMART International technical website after joining (for free) the beta testing program. Later it will be made broadly available.
First year goals

• Develop consensus “SLD Maps” for
  – A prototypical medium sized commercial/institutional project
  – A prototypical large-team complex project

• Identify existing exchanges that will mesh with the “Map” concept

• Identify big gaps in the exchanges

• Assemble SMEs and stakeholders to define how to fill the gaps

• Write it all up
Proven Practices
2016 Goal:
Create a venue for Proven Practices to be shared, developed, and supported

Keys to Success:
• Clear definition of Proven Practice
• A shared environment for practices
• Support from software vendors
Education
Focus on impacting the industry through improving the education and training of the current and future workforce.

1) Professional Continuing Education
2) Conferences and Workshops
3) Academic Program Content Assessment & Development
Continuing Education Program

- Identify and prioritize core body of knowledge for educational initiatives
- Define online delivery infrastructure
- Develop at least one webinar in 2016
- Develop plans for future creation and delivery
bSa Conferences & Workshops

• Explore the potential for a 2016 or 2017 bSa Annual Conference – separate from the NIBS Annual Conference
• Plan the implementation of the conference
• Support other workshops and conferences as appropriate, e.g., NIBS Annual Conference, Academic Interoperability Coalition, etc.
Academic Programs

• Engage with and support as appropriate
  – Academic Interoperability Coalition
  – BIMforum Education Subcommittee
  – ASCE Computing Division, Education Subcommittee

• Identify appropriate mechanisms to support academia
Communications

Ensure information available on the bSa related websites is accurate and relevant, and provides a modern, effective platform for dynamic communication and collaboration.

- Review and maintain the bSa website information and content
- Develop proposed communication content for newsletters, conference announcements, and other news highlights
- Explore and implement appropriate new communication mechanisms for bSa, such as blogs, social media, or other media venues
Membership

Seek new methods for engaging with our members, and identify mechanisms for bSa to provide maximum value to the different members, including the organizational and individual members

- Identify potential new members;
- Maintain relationships with existing members;
- Communicate the clear membership value proposition to current and future members in collaboration with the Communication Subcommittee; and
- Develop membership structure recommendations to bSa and NIBS.
Industry Liaisons

Responsible for maintaining and building relationships with industry organizations. The subcommittee will seek opportunities to better engage with the organizations.

- Identify opportunities to maintain or improve ongoing collaborative initiatives with industry liaisons;
- Maintain a list of industry organization interactions;
- Further develop relationships with Government Agencies to fulfill the objectives identified in the NIBS enabling legislation
- In collaboration with the Communication Subcommittee, identify opportunities to highlight effective collaborative initiatives.
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• 2:30 pm – 3:30 pm  Alliance Subcommittee Planning

• 3:30 pm – 4:00 pm  Break

• 4:00 pm – 4:30 pm  NBIMS-US™ Reassessment Report Review
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Reassessment Report:
Summary and Discussion

Jeffrey W. Ouellette, Assoc. AIA, IES
Vice Chair, Version 3 Project Committee
Objectives of Report

Analysis of V3 work

Recommendations:
- Product
- Process
- Organization
Summary of Product Recommendations

- Relevancy Review
- Missing Content
- Form & Versioning
- User Support
- Tracking Success
Summary of Process Recommendations

- Planning
- Execution
- Marketing/Education
Summary of Organization Recommendations

- Industry Participation
- Personal Participation & Conduct
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BIM Leaders Panel

- Subcommittee Chairs
  - Robert Anderson
  - Connor Christian
  - Kimon Onuma

- Guest Panelist
  - Jeff Ouellette

- Alliance Board
  - Johnny Fortune
  - John Messner
  - Van Woods
Critical Mass and Broad Adoption
BIM Leaders Panel

Achieving Implementable Standards
BIM Leaders Panel

Repeatable Success
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National BIM Guideline for Owners

A project of the National Institute of Building Sciences
National BIM Guideline for Owners

Concept:

• Designed to be adopted by building and facility owners who currently don’t use a BIM guideline
• Provides criteria for BIM delivery by project team
• Generic for easier adoption in all building sectors
• Based on existing research and guides
• About 60 pages; easy reading level
• Final draft to be reviewed by buildingSMARTalliance® members and others
National BIM Guideline for Owners

Goals:
1. Create document for govt., institutional, and commercial building owners to adopt as Standard Operating Procedure for design/BIM teams to follow
2. Design document for potential adoption as an ANSI standard
3. Generate publishable industry standard
National BIM Guideline for Owners

Committee:

- Dan Chancey, Chair
  Commercial Advisors Asset Services
- Ernie Conrad, PE
  Conrad Engineers
- Carrie Dossick, PhD, PE
  University of Washington
- Craig Dubler, PhD
  Office of Physical Plant
- Johnny Fortune
  Bullock Tice Associates
- Dennis Knight, PE
  Whole Building Systems LLC
- John Messner, PhD
  Penn State University
- Dennis Patnode
  HDR Architecture
- Mike Zeppieri
  Skanska USA Building
National BIM Guideline for Owners

Contents:

1. Introduction
   Purpose • Scope • Use • Definitions

2. Process
   Team • Project delivery • Intellectual Property • Quality Management/Control

3. Standards
   Platforms, software, space, & drawing standards • File Structure • Model Structure • Modeling Requirements

4. Deliverables
   BIM Execution/Mgmt Plan • BIM Apps • Schedule and Submission Requirements

5. References

National Institute of Building Sciences buildingSMART alliance®
National BIM Guideline for Owners

Advisory Group:

- Army Corps of Engineers
- Defense Health Agency
- Department of Veterans Affairs
- General Services Administration
- Naval Facilities Engineering Command (NAVFAC)
- State of Tennessee
- State of Wisconsin
- City of New York
- Western Michigan University
BIM Guideline for Owners

- Launched October 13, 2015
- Organizations supporting the development – NIBS, BOMA, AIA, ASHRAE and IFMA
- Nine members representing major sectors of industry
- Advisory Committee – Federal, State, Local Government, Institutions and Universities (Five federal agencies, two states, one city and university)
- Corresponding Committee - upon request to the Institute
- Guideline will be reviewed by buildingSMART alliance® members & Industry Organizations
- Final document submitted to ANSI for approval as Industry Standard

“The primary purpose of the National BIM Guideline for Owners is to provide building and facility owners with a consistent reference for including BIM in contractual documents with their building project team.”
BIM Guideline for Owners

General Approach

- Written as a Guideline easily translated to Standard language
- Establish Minimum topics to address
- Establish other/additional topics to consider
- Relate Quality Management and Deliverables to Requirements
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Alliance Wrap-up

• Summary by BOD Secretary Van Woods

• Alliance Calendar
  – March - Sponsor/MOA Meeting
  – April - All Members Meeting