

Putting the BIMForum LOD Specification to Work

The Level of Development (LOD) Specification

- What is it?
- How do you use it?
- Why would you want to?
- What does it mean for your business?

The *BIMForum LOD Spec* has been recognized as an extremely useful tool for defining BIMs. But where does the rubber meet the road? How can this document benefit your projects?

Whether you're an owner, architect, engineer, GC, or trade partner, if your firm is dealing with BIMs you're using them for specific purposes with specific information needs.

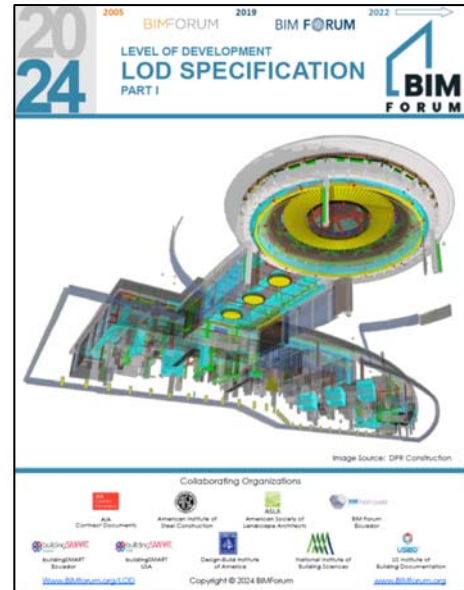
- How do you clearly communicate these needs?
- How do you make sure you're sending and receiving models that will serve the specified purposes?
- How do you determine if a model fits your needs?
- How do you avoid over- and under-modeling and redundant effort, all of which add risk and waste time and money?
- How do you create and follow a lean BIM execution plan?
- How do you control the risks of others relying on your BIMs?

As a highly interactive full-day session attendees have overwhelmingly acclaimed this workshop as very helpful in translating the *LOD Spec* into more efficient workflows, clearer communications, less waste, and a more efficient and effective modeling effort.

The workshop comprises three sessions:

1. **Executive Briefing.** In this 2-hour session participants will develop a basic understanding of the LOD framework and the LOD Spec. In addition to fundamental knowledge for everyone in the AECO industry, we will address business, economic, and contractual impacts that executives and high-level managers need to understand.
2. **Hands-on Workshop.** In two consecutive 3-hour sessions we'll delve into nuts-and-bolts application of the LOD framework and LOD Spec. These sessions are highly interactive and include hands-on exercises in which the participants will work with specific processes and tools they can take back to their firms and apply immediately to their projects. *Participants in Hands-on Workshop session 1 will receive a Model Development Spec (LOD matrix) for an example project including sample LOD profiles for architect's and GC's baselines plus several additional information exchanges.*

Each session is a prerequisite for the next, but participants may take one, two, or all three.



Learning Objectives

Agenda

Executive Briefing. Be able to:

- Explain the basics of the LOD framework and the LOD Specification
- Understand the application of the LOD Spec to projects
- Understand the risks of reliance on models
- Understand the available published agreements that leverage the LOD Spec
- What is Level of Development?
- The Model Development Spec
- Mitigating the risks of model reliance
- LOD in contractual agreements

Hands-on Workshop 1. Building on the Executive Briefing, participants will also be able to:

- Quickly find specific information in the LOD Spec
- Integrate the LOD Spec into BIM execution plans
- Apply a pull-planning process to BIM execution plans
- Avoid over-modeling, under-modeling, and duplication of modeling effort
- Discussion and exercise – Tour of the LOD Spec
- The Model Development Spec in BIM Execution Plans
- Discussion and exercise – Develop a Baseline Model Development Spec
- Pull Planning

Hands-on Workshop 2. Building on the Executive Briefing and Hands-on Workshop 1, participants will also be able to:

- Specify models for specific and multiple BIM uses
- Develop efficient modeling workflows
- Enable your project teams to rely on each other's models
- Define models and data that will support specific facility operation processes.
- Understand available tools for defining, managing, and evaluating models
- Discussion and Exercise – Developing a Collaborative Work Plan
- Discussion and Exercise – Reliance on Models
- Fitness of Models
- Discussion and Exercise – Defining FM Deliverables
- Model Development Spec Tools

Facilitator: Jim Bedrick, FAIA, LEED AP



Jim is principal of AEC Process Engineering, a consulting firm focused on IPD, VDC, and collaboration, and senior industry advisor to Strategic Building Innovation. A registered architect, Jim holds degrees in both Architecture and Electrical Engineering and has more than 40 years' experience on all three sides of the Owner / Architect / Contractor triad. Jim was one of the originators of the Level of Development (LOD) concept and has co-chaired the *BIMForum LOD Specification* committee since 2011. He spent 13 years on the AIA Contract Documents Committee and is an active contributor to many additional industry organizations including BuildingSMART and Stanford's Center for Integrated Facility Engineering (CIFE).