AYDBABTU: Autodesk® Revit® Data Management

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CODE AB3700 As client and project requirements become more and more complex; the need to manage information in Autodesk Revit software and data connected to Revit becomes exceedingly important. This class will survey the landscape of tools available to aid in this task, including tools for family and parameter management as well as specific tools for program management. Autodesk® Vault software, dRofus, Microsoft® Access®, Microsoft® Excel® tools and others will be covered. During the class, we will touch on project experience with many of these tools and provide guidance on how to approach many data management challenges in Revit.

Learning Objectives

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

- Understand the benefits of data management for Revit projects
- Learn the tools available in the market to aide in managing Revit and connected data
- Understand when to develop your own solutions for data management via the Revit API
- Understand how various BIM uses can affect your collaboration and data management strategy

About the Speaker

Greg is a firm-wide BIM Manager at HOK. He specializes in project support and delivery using technology. He is responsible for supporting the use of Revit and a host of other tools including; dRofus, Newforma, Navisworks, Infrastructure Modeler, 3D Max Design and others. Greg prides himself on having knowledge of a wide variety of software tools so to best advice projects and the firm.

Data Management

Drivers of Data Management
- Data Deliverables
  - COBIE
  - DOD
  - VA
  - Unique Owner Requirements
- Project Delivery
  - Translation
  - Consistency (QA/QC)
  - Efficiency
  - Information Reuse
- Design (Really)
  - Optimization
  - Analysis

Owner Requirement Links
- VA http://www.cfm.va.gov/til/bim/BIMGuide/applications.htm
- Finland http://www.en.buildingsmart.kotisivukone.com/3
- USACE https://cadbim.usace.army.mil/
- Indiana University http://www.indiana.edu/~uao/iubim.html

Select Solutions Available on the Market

Family Management Tools
- BIMlist – CTC
- Family Browser – Kiwi Codes
- Smart Browser – Tools4Revit
- Library Manager - SmartBIM
- Revit Family Manager – Familit
- Content Stuido – Content Studio
- Content Controller - OFCdesk
- Vault – Autodesk
- Openasset BIM – Axomic

Special Tools

- CASE
- Whitefeet
- CTC
- Autodesk File Upgrader
- Autodesk BIM Review
- Excitech: Revit Toolkit
- Ideate Explorer
- Sumex Design
- Newforma
- DigiPara
- LandCADD
- DigiPara® Elevatorarchitect

Transaction Tools

- Ideate BIMLink
- CTC
- Whitefeet
- Autodesk DB Link

Data Management Tools

- dRofus
- Trelligence
- Codebook
- BuildingOne
- Sigma
- Especs*
- Newforma*

Operations Centric

- FMSystems
- IBM Maximo
- BuildingOne
- dRofus (Tida)

Other Tools Mentioned

- BIMserver.org
- Gteam
- SAFE
- Jotne
- GProg
- Assemble
- FAB MEP
- Eurostep
- AIM (Autodesk Infrastructure Modeler)
- City Engine
- ARCGIS