

# BIM Requirements & Asset Management

AUDREY VOORHIES, BIM COORDINATOR DENVER INTERNATIONAL AIRPORT OCTOBER 19<sup>th</sup>, 2016



### **BIM Software**

- 4 Software Platforms
- Autodesk Revit Buildings and building systems
- Autodesk AutoCAD Civil 3D Site and site utilities
- Autodesk BIM 360 Glue (DEN Provided) Used for Spatial
   Coordination & Clash Detection
- Autodesk BIM 360 Field (DEN Provided)



### Software – Autodesk Revit

- Modeling instead of Drafting
- Live schedules reflect actual counts, lengths, areas and volumes of elements, rooms and spaces in the project.
- Change something in one view and it is automatically updated in others. i.e. change door number on plan and it is updated in schedule, move a door in plan, it is reflected in elevation and sections.



### Software – Autodesk Revit

- 4 Versions
  - Architecture
  - MEP
  - Structure
  - Revit Three Previous in One
- Not Backwards Compatible. Cannot open a Revit 2014 file in Revit 2013. Once you open a Revit 2013 file in 2014, it becomes a 2014 file permanently.
- DIA Upgrades versions first quarter each year. e.g. Jan 1
   2016 will upgrade to Revit 2016



# Software – Autodesk AutoCAD Civil 3D

- Surface and Site Utility modeling
- Very similar to standard AutoCAD using Object Based Data Tables
- Live schedules reflect actual counts, lengths, areas and volumes of earth, pipe, equipment, etc.
- Change something in one view and it is automatically updated in others. i.e. change door number on plan and it is updated in schedule, move a door in plan, it is reflected in elevation and sections.
- DIA Upgrades versions first quarter each year. e.g. Q1 2015
   will upgrade to Civil 3D 2015



# Hardware

#### Revit Hardware Requirements / Civil 3D Hardware

#### **Requirements**

- Windows 7
- Multi-Core Intel® Pentium®, Xeon®, or i-Series processor or AMD® equivalent with SSE2 technology.
- 4GB RAM
- 5gb Storage
- Autodesk BIM 360 (Field / Glue)
  - iPad (no Android; Windows works but not mobile friendly)
  - More storage the better (photos, drawings add up fast)
  - Desktop version is browser based



# BIM 360 GLUE

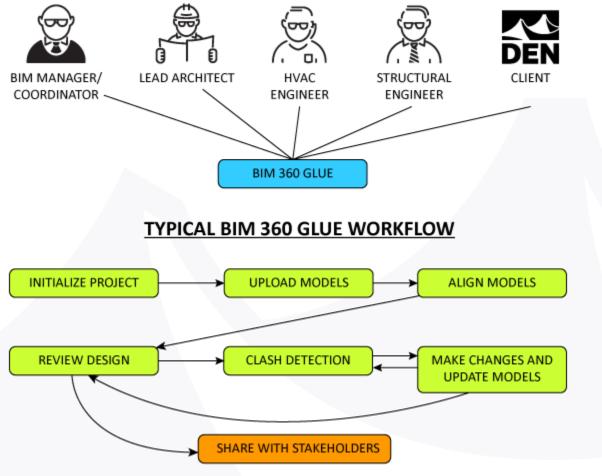
AUDREY VOORHIES, BIM COORDINATOR DENVER INTERNATIONAL AIRPORT OCTOBER 19<sup>th</sup>, 2016



- Cloud-based BIM Management solution that transforms BIM collaboration by simplifying multi-discipline model coordination and clash detection and providing anywhere access to BIM models and intelligent object data for the entire project team.
- It helps architects, engineers, owners and builders across the globe to collaborate in real-time in over 50 different file formats.
  - Revit, Autocad, Civil 3d, Navisworks, 3DS Max, Microstation, ArchiCAD...
    - Complete list can be found at <a href="https://b4.autodesk.com/file\_compatibility.html">https://b4.autodesk.com/file\_compatibility.html</a>

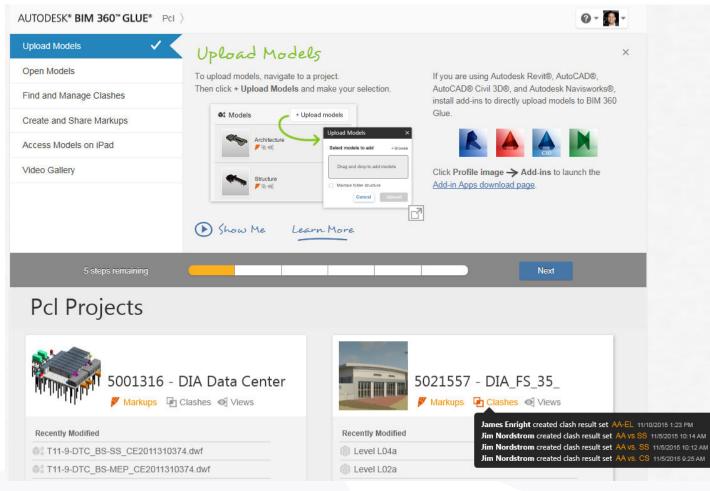


#### DISTRIBUTED PROJECT TEAM



DENVER INTERNATIONAL AIRPORT

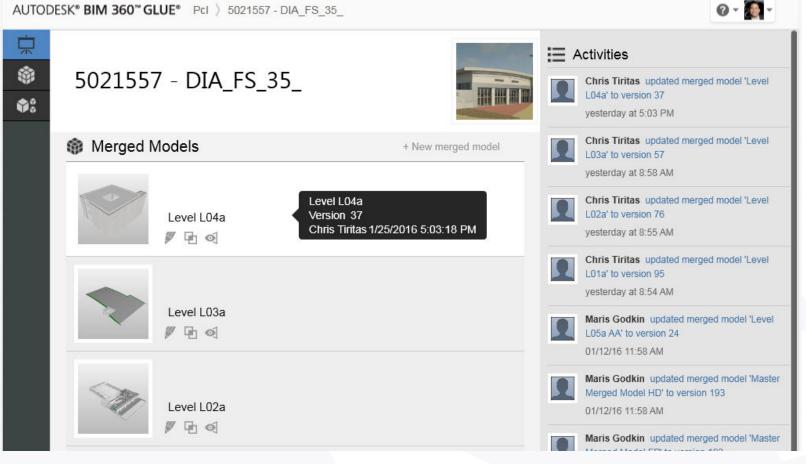




#### PROJECTS DASHBOARD



AUTODESK" BIM 360" GLUE" Pcl ) 5021557 - DIA\_FS\_35\_



#### SELECTED PROJECT DASHBOARD



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### AUTODESK® BIM 360<sup>TM</sup> GLUE®



#### CASE STUDY: FIRE STATION 35 - CLASHES



# AUTODESK® BIM 360<sup>TM</sup> GLUE®

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#### CASE STUDY: FIRE STATION 35 - CLASHES



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#### CASE STUDY: FIRE STATION 35 – MARKUP, COMMENT, NOTIFY





# BIM 360 FIELD

MICHELLE MURO, CONSTRUCTION ADMINISTRATOR/ARCHITECT DENVER INTERNATIONAL AIRPORT OCTOBER 19<sup>th</sup>, 2016 

# Features and Benefits

- Improve quality and reduce rework
  - Gather QA/ QC information to help proactively identify trends and minimize contractor risk.
  - Create work-to-complete lists for trades and other parties.
  - Create and manage issues and checklists in the field.
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- Promote safety
  - Checklists help make inspections faster, more consistent and thorough.
  - Documentation is current and accessible in the field.
- Improve commissioning and handover process
  - Compile quality, safety or commissioning checklist results.
  - Use commissioning information and linked documents from 360 Field as the deliverable for handover and facility operations



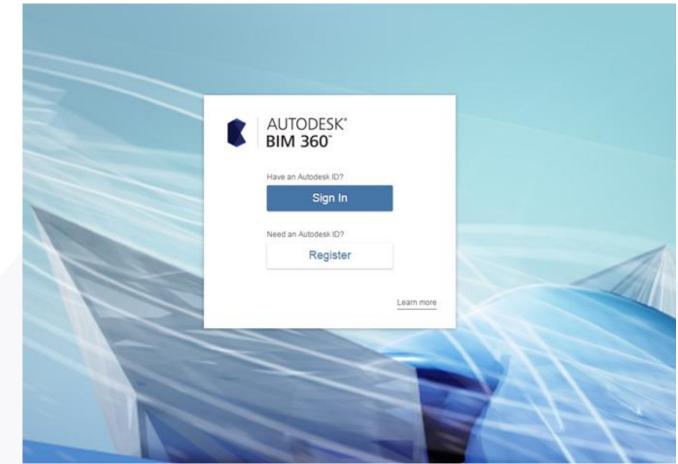
### Features and Benefits

- Manage field workflow
  - Access the latest and most current information. Even when offline!
  - Share document changes with field and office professionals.
  - Store and distribute drawings, plans, images, reference materials, and specifications.
- Enhance workflows within BIM
  - Integration with BIM 360 Glue takes full advantage of project models in quality, safety, and commissioning workflows.

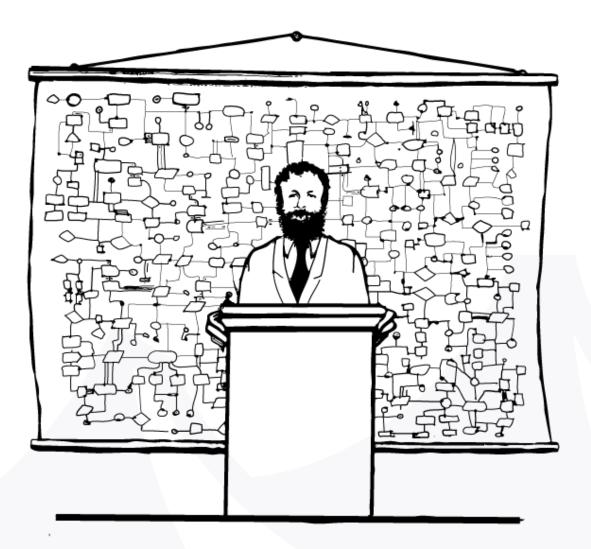


# Layout of the System

- The layout of the BIM360 Field system falls into 9 tabs.
  - Overview
  - Issues
  - Tasks
  - Checklists
  - Daily Updates
  - Equipment
  - Library
  - Photos
  - Reports







"Now that you have an overview of the system, we're ready for a little more detail"



# Project Overview

• From here, you can track issues, the root cause of issues, the companies employed, and their progress.

UTODESK® BIM 360" FIELD 201209030 - DEN-PKG-Mod 4E Garage -		
Project Overview		
sue summary		
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### Issues

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 In the Issues tab, you can log and track issues that have occurred on site. Additionally, you can track by date, print out a list of issues, and monitor the resolution of issues.

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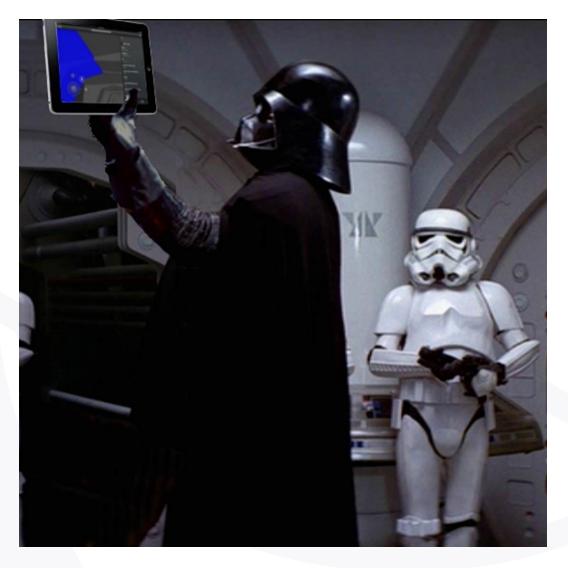
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## What If??

 Darth Vader uses BIM 360 Field during construction on the Death Star?

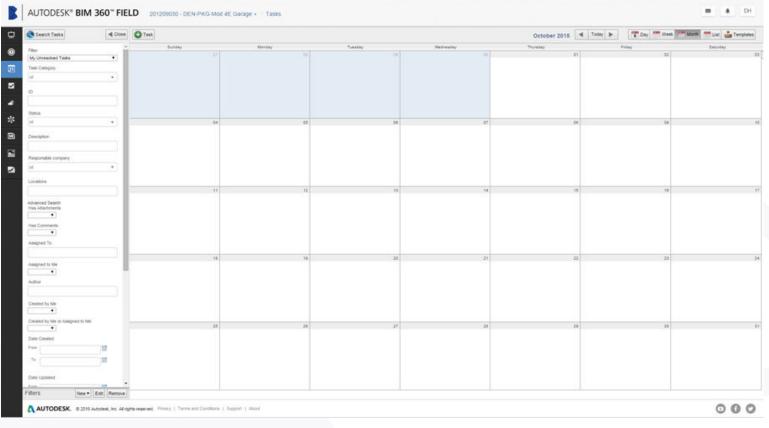
"That's no moon. It's a space station." —<u>Obi-Wan Kenobi</u>





### Tasks

• In the Tasks tab, you can make additions to a calendar, which also tracks tasks on a chronological basis.





# Checklist

• In the Checklist tab, you can make additions to a calendar, assign tasks to others

registered on BIM360, and track tasks on a chronological basis.

Note       Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note     Note <t< th=""><th>Search Checklists</th><th>Close</th><th>O Add 📝</th><th>tan) 🗶 county 🧊 Pours 🕼 More A</th><th>tions •</th><th>nerd bed</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Search Checklists	Close	O Add 📝	tan) 🗶 county 🧊 Pours 🕼 More A	tions •	nerd bed									
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# Equipment

• In the equipment tab, you can create and monitor the equipment on site and which

have issues, when they were obtained, and what their basic information is. This can

be tied to the Revit model for ease of maintenance in the future.

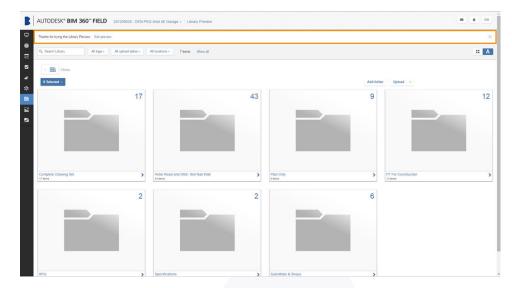
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		2441		Other	Variable Air Volume Unit 2		Functional Performant	0	0	0	0	May 5, 2015	
		4333		Other	Variable Air Volume Unit 2		Functional Performant	0	0	0	0	May 5, 2015	
Type		3901		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
at	•	2445		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		D 3384		Other	Variable Air Volume Unit 2		Functional Performant	0	0	0	0	May 5, 2015	
Description		3550		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		2669		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		3685		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
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		2841		Other	Variable Air Volume Unit 2		Functional Performant		0		0	May 5, 2015	
		3306		Other	Variable Air Volume Unit 2		Functional Performance		0	-	0	May 5, 2015	
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		2819		Other	Variable Air Volume Unit 2 Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015 May 5, 2015	
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		3845		Other	Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015	
		3762		Other	Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015	
# Open Issues		4435		Other	Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015	
		4022		Other	Variable Air Volume Unit 2		Functional Performant		0		0	May 5, 2015	
		2685		Other	Variable Air Volume Unit 2		Functional Performant		0		0	May 5, 2015	
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		3601		Other	Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015	
		3143		Other	Variable Air Volume Unit 2		Functional Performant		0	0	0	May 5, 2015	
Barcode		3096		Other	Variable Air Volume Unit 2		Functional Performance		0	0	0	May 5, 2015	
		3871		Other	Variable Air Volume Unit 2		Functional Performant	0	0	0	0	May 5, 2015	
		4550		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
BIM Object ID		2517		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		D 3472		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		3973		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
Created by		2648		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
		2375		Other	Variable Air Volume Unit 2		Functional Performance	0	0	0	0	May 5, 2015	
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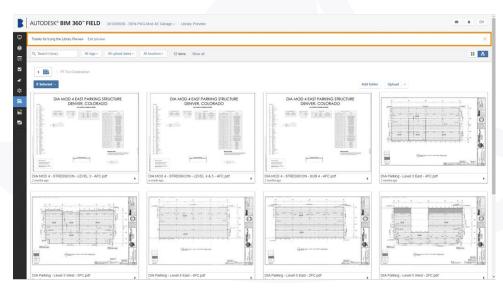
DENVER INTERNATIONAL AIRPORT



# Library

 In the library tab, you can create multiple folders that allow for categorizing reference material.

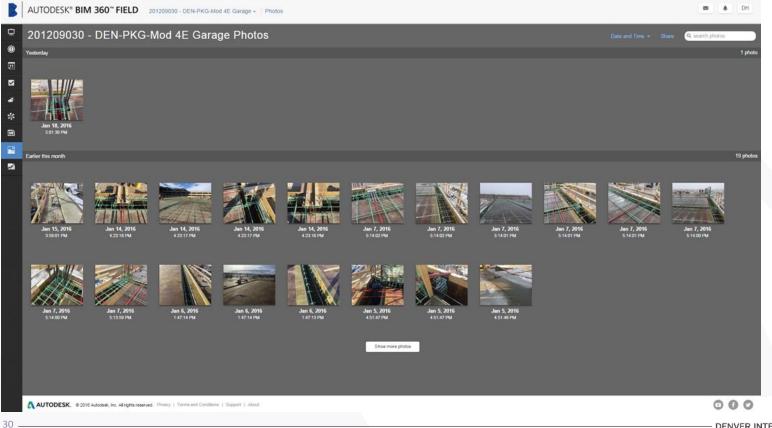






### Photos

- In this tab you can categorize and store photos in chronological or alphabetical order.
- All stored photos can be in multiple formats, however PDF works by far the best.

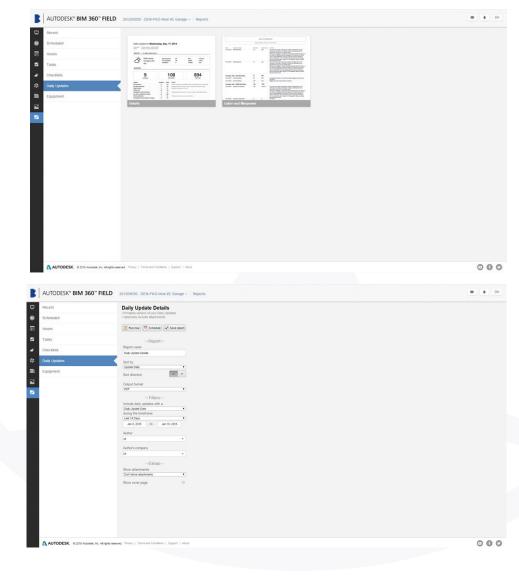


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### Reports

 From this tab, viewed only from a desktop, you can view/ generate reports made by other individuals.





### Resources

- Autodesk BIM 360
- http://bim360.com/bim-360-field
- YouTube Tutorials
- <u>https://www.youtube.com/results?search\_query=bim+360+field</u>



# Wetware / Users

No hardware or software can compensate for a user knowledge base shortfall, while a knowledgeable user can get around many hardware and software limitations.

- Train existing staff
- Hire new staff
- Subconsultant
  - In-House
  - Out-of-House
- Which approach? ALL!



# Industry Contractor Engagement

- Designers, General Contractors, Trade Contractors
- DEN BIM representative comes to your office
- 1 Hour Presentation
- Whole staff education
  - Owners, Principals, Managers, Designers, Modelers, Drafters, Installers, Builders
- What DEN needs from Consultants/Contractors
- How we're using BIM
- Q&A



# References & Resources

#### – <u>DSM-EDCI</u>

- Mastering Autodesk Revit
   Architecture/Structure/MEP
- <u>Model Performance Technical Note</u> (Best Practices & Hardware Recommendations)



- <u>Autodesk Users Group International</u> forums
- Rocky Mountain Building Information Society (<u>RoMBIS</u>)



### Questions

- Reference DSM EDCI for Design and Construction projects
  - <u>https://business.flydenver.com/bizops/documents/denEDCIComplianceDSM.pdf</u>
- Brendan Dillon, BIM Manager

Brendan.Dillon@flydenver.com

