



## **PD6082: Glue Those Plant 3D Models: BIM 360™ Glue® and AutoCAD® Plant 3D**

Scott Hallmark – Applied Software Technology, Inc.

**PD6082** In this session we will look at BIM 360 Glue software and show how to use it with AutoCAD Plant 3D software.

### **Learning Objectives**

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

- Learn how to install BIM 360™ Glue® software
- Learn how to glue an AutoCAD® Plant 3D software DWG file to BIM 360™ Glue® software
- Learn about the uses of BIM 360™ Glue® software
- Learn how to use mobile tools with BIM 360 Glue software

### **About the Speaker**

*Scott Hallmark is a Senior Applications Specialist with Applied Software Technology, Inc. Scott is an Inventor 2015 Certified Professional. He has been in the Autodesk reseller channel for 6 years working for Applied Software in Atlanta, Georgia, and for ALACAD in Birmingham, Alabama. As a Senior Application Specialist, Scott traveled into Canada and the eastern United States instructing users on AutoCAD P&ID and Plant 3D software and Inventor software and performing installations, implementations, and customizations for many industries utilizing the applications.*

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*<http://hallmarkblogautocadpid.blogspot.com>*

*<http://appliedsoftwareblog.blogspot.com>*

## Install Autodesk® BIM 360™ Glue® Software

Try it for free  
Sign up for a 30-day free trial.

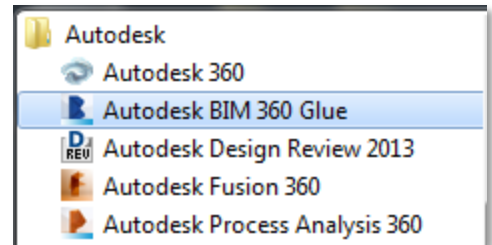
SIGN UP NOW

You can get started loading a 30-day trial for Autodesk® BIM 360™ Glue® at this site:

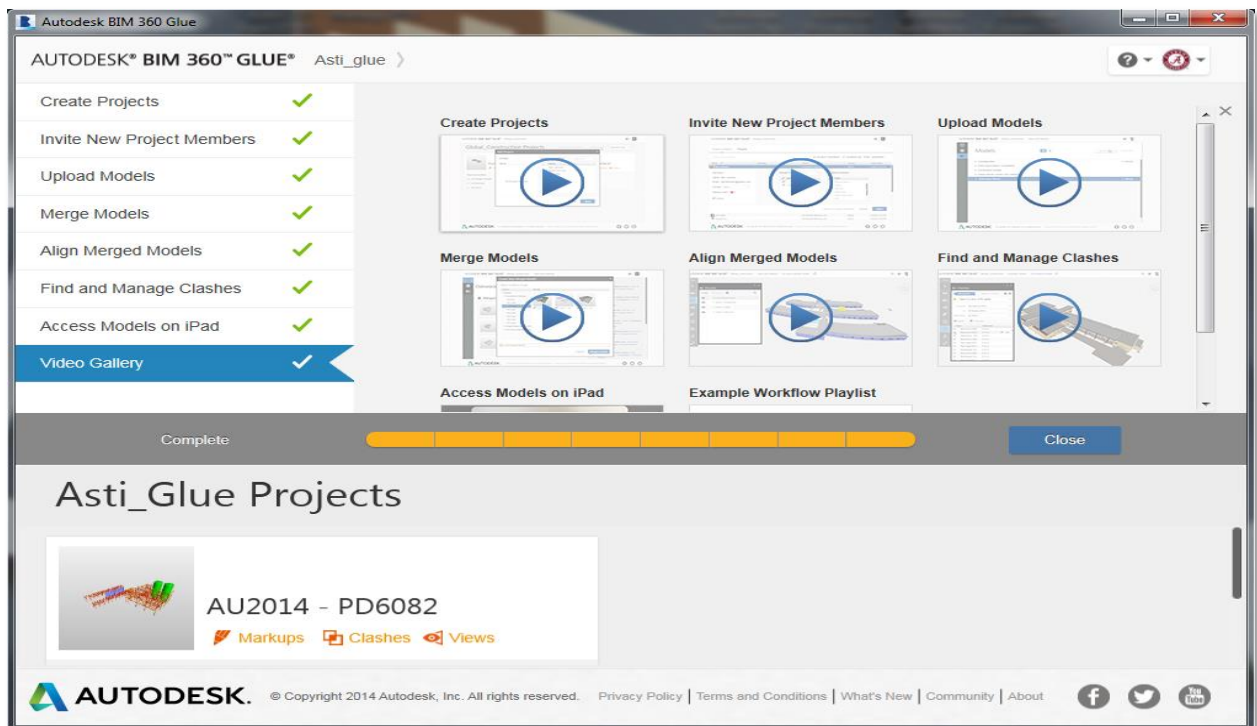
<http://www.autodesk.com/products/bim-360-glue/overview>

Look for this on the right-hand side of the page:

It does require an Autodesk ID. If you do not have one, you can create one there.  
The page will also ask you to create a SITE NAME.  
This is just the name of the project or site in the cloud that you will glue your models up to. It adds a link to your Programs Menu.



You can add it to your desktop as well. Once you have it installed, launch and look at the instructional videos on the main page.

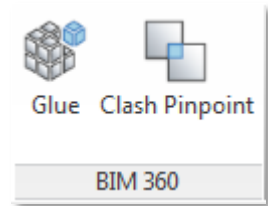


The main page will show you your active sites and also what files have been recently glued or modified. You can view Markups, Clashes and Defined Views from this main page as well.

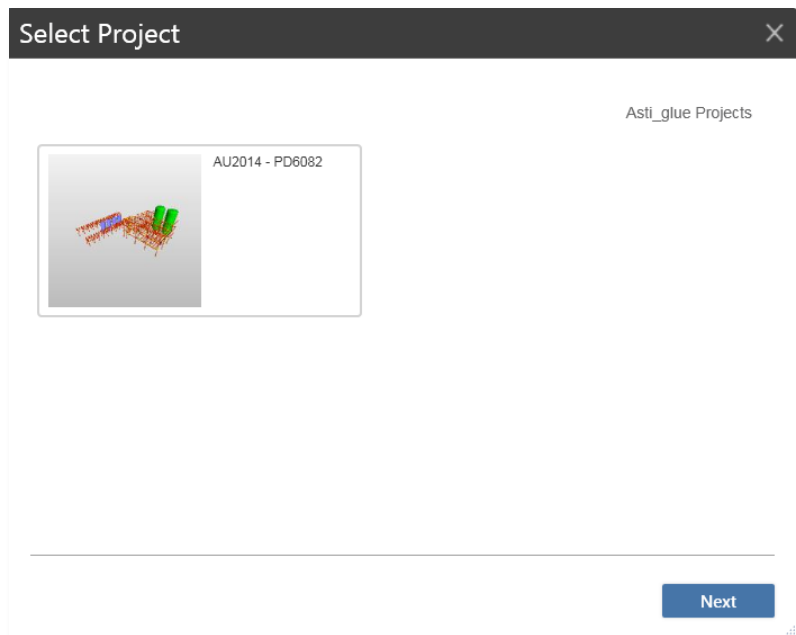


## Glue an AutoCAD® Plant 3D Software DWG file to Autodesk® BIM™ 360 Glue® Software

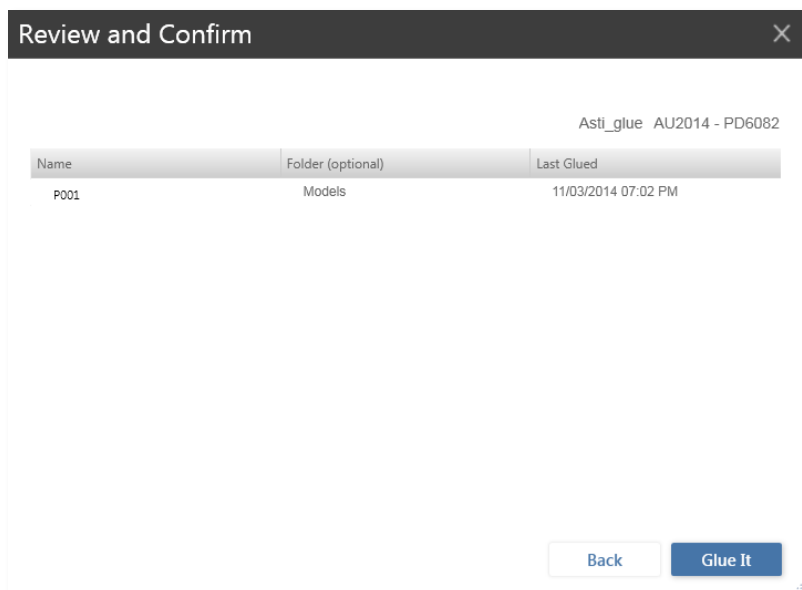
In AutoCAD® Plant 3D, you can directly Glue your models to the cloud for review and markup by other users. You can use the BIM 360 tab of the Plant 3D ribbon to glue your models. You can also see clashes that were run in Glue using the Clash Pinpoint button.



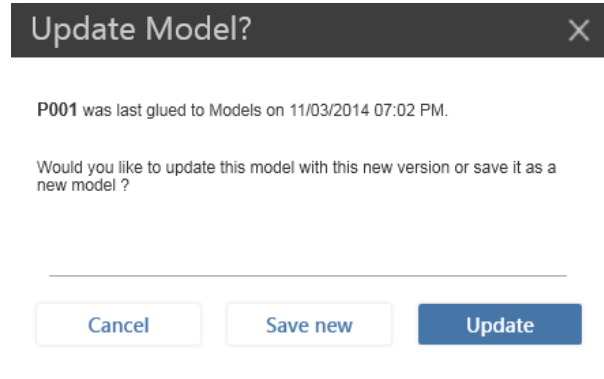
When Glueing a file, you will be asked to select a Project to Glue to.



Review and Confirm your selections and select "Glue It."



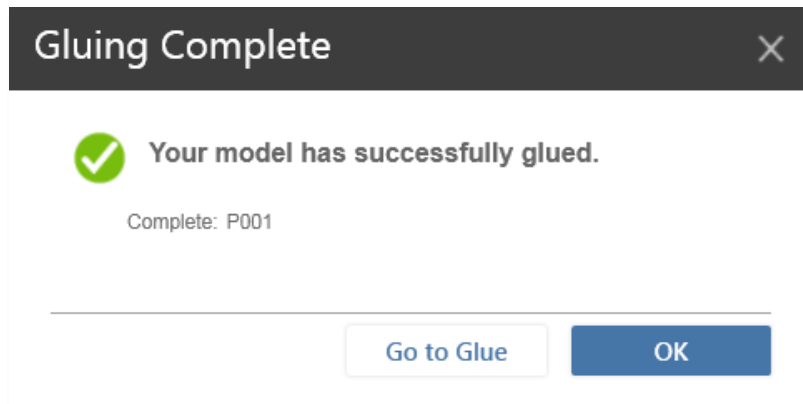
**You will get a notice that indicates that the model already exists (if you had already glued it once before) and will require an update. You can also save it as a new model in the Project.**



**A progress bar will let you know it is in progress and finally a dialog box letting you know it is finished.**



**When finished, you can either "Go to Glue" or you can continue working in AutoCAD Plant 3D.**



## Understand why you would use Autodesk® BIM 360™ Glue®

“I’ve heard of BIM 360™ Glue® and BIM 360™ Field. What’s the difference?”

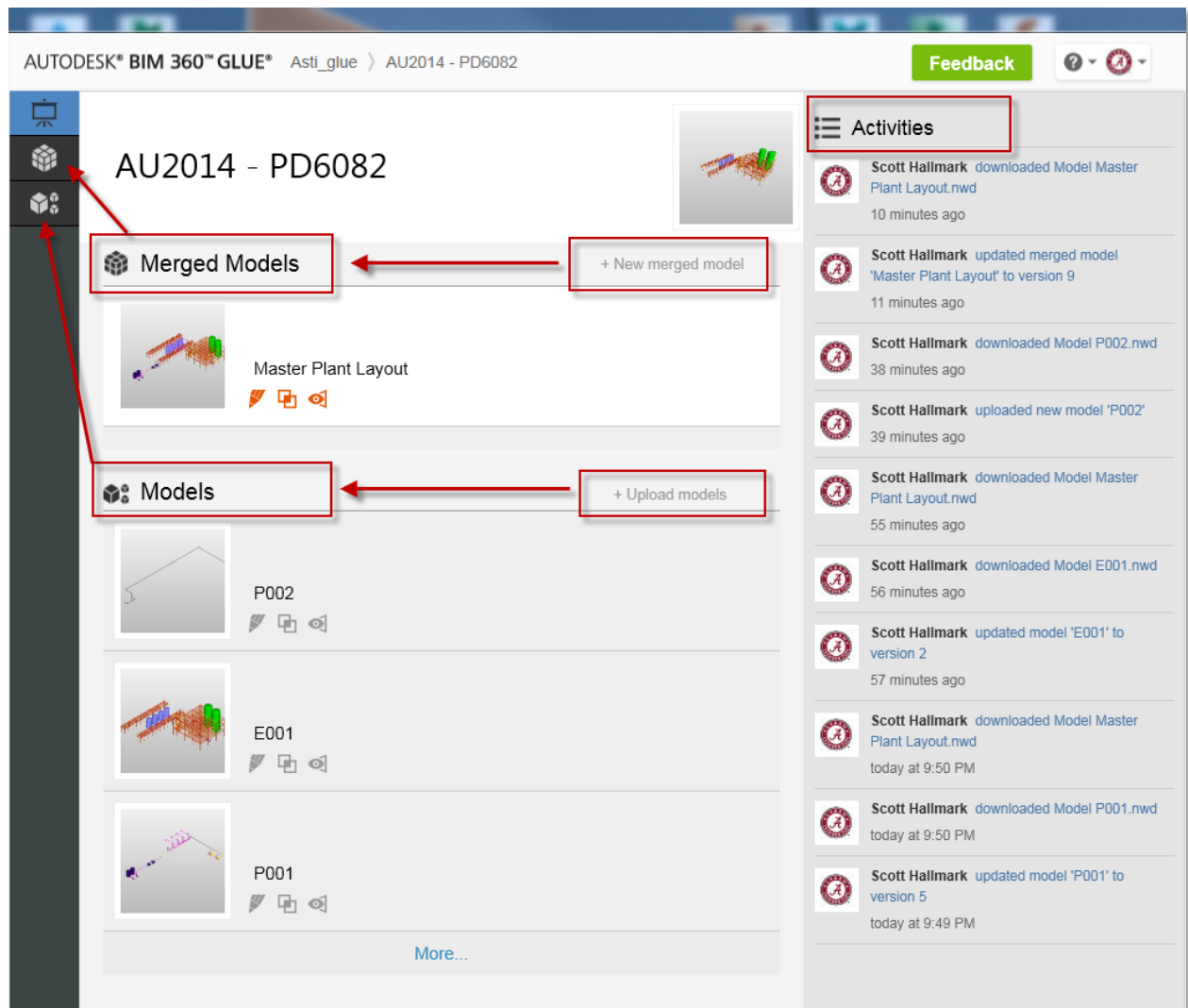
*For one, Glue is for BIM management in the cloud. Field is for Field Management in the cloud.*

### BIM 360 Products

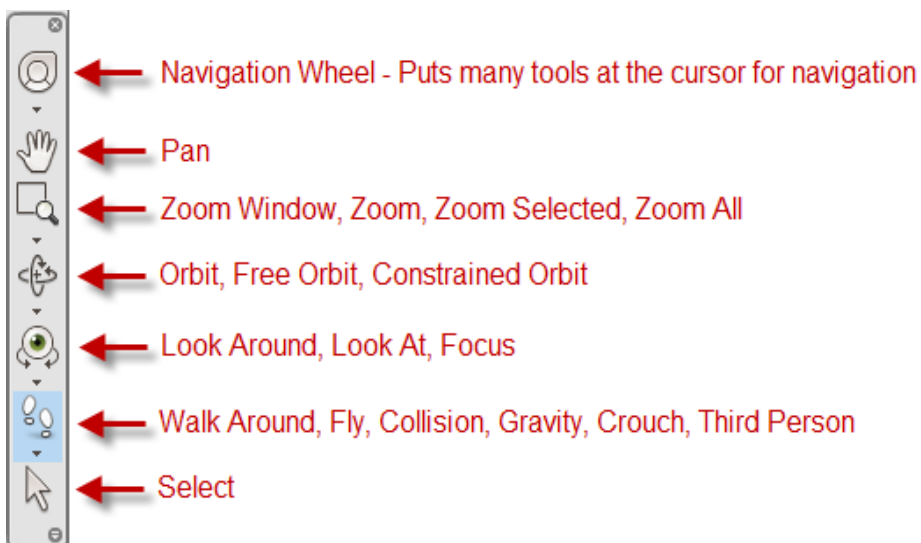
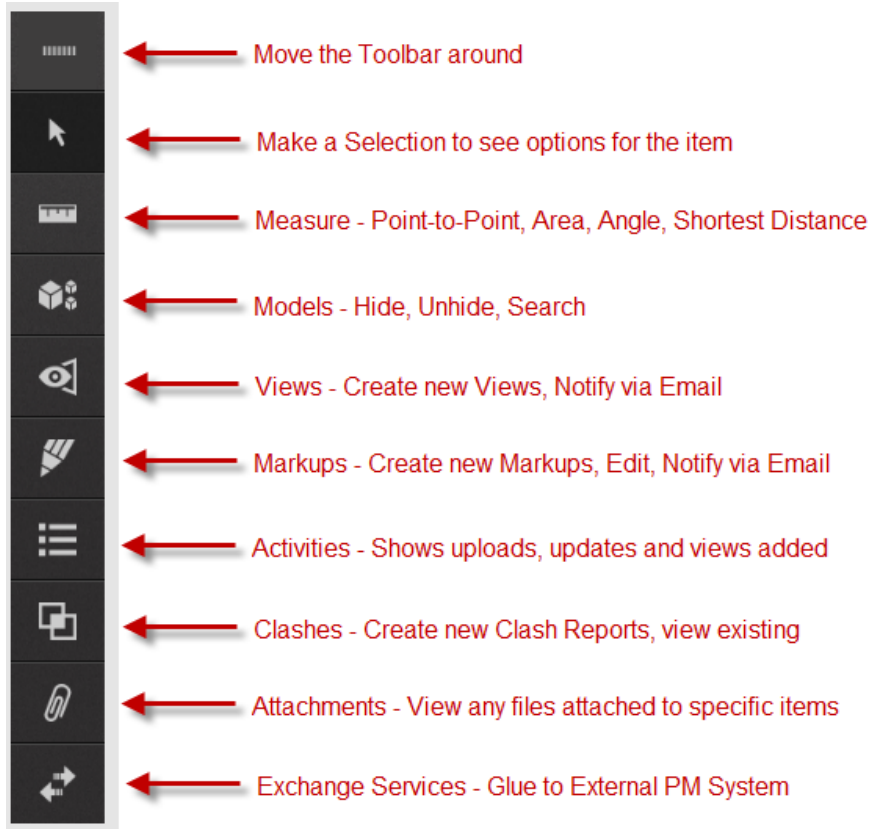
PRODUCTS	Preconstruction	Construction & collaboration	Commissioning & handover
 <b>BIM 360™ Glue®</b> A cloud-based service for BIM management and collaboration. Connect your entire project team and streamline <b>Building Information Management (BIM)</b> project workflows.	✓ <ul style="list-style-type: none"><li>• Design development</li><li>• Value engineering</li><li>• Constructability reviews</li><li>• Multidisciplinary coordination</li></ul>	✓ <ul style="list-style-type: none"><li>• Multidisciplinary coordination</li><li>• Job site visualization</li><li>• Collaborative project reviews</li></ul>	
 <b>BIM 360™ Field</b> A cloud-based service for field management. Use a mobile app on-site for collaboration and reporting.		✓ <ul style="list-style-type: none"><li>• Quality assurance / quality control</li><li>• Safety program management</li><li>• Issue tracking and management</li><li>• Cross-project reporting</li></ul>	✓ <ul style="list-style-type: none"><li>• Equipment startup and testing</li><li>• Quality inspections related to handover</li><li>• Certification tracking</li><li>• Commissioning management</li></ul>

## Interface

*The interface is simple and intuitive. You can easily navigate the interface to create a new Merged Model, add models to existing Merged Models, as well as see the latest Activities taking place regarding the project, all from the Cloud!*



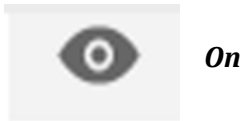
*The interface has a single Toolbar that can be moved around to suit your needs. It puts all the commands you would need right at your fingertips for easy navigation. The toolbar items are explained below but you will find more details in the pages to follow.*





## Coordination

*Autodesk® BIM 360™ Glue® allows you to quickly turn off and on the models you wish to see using the eyeball icon.*

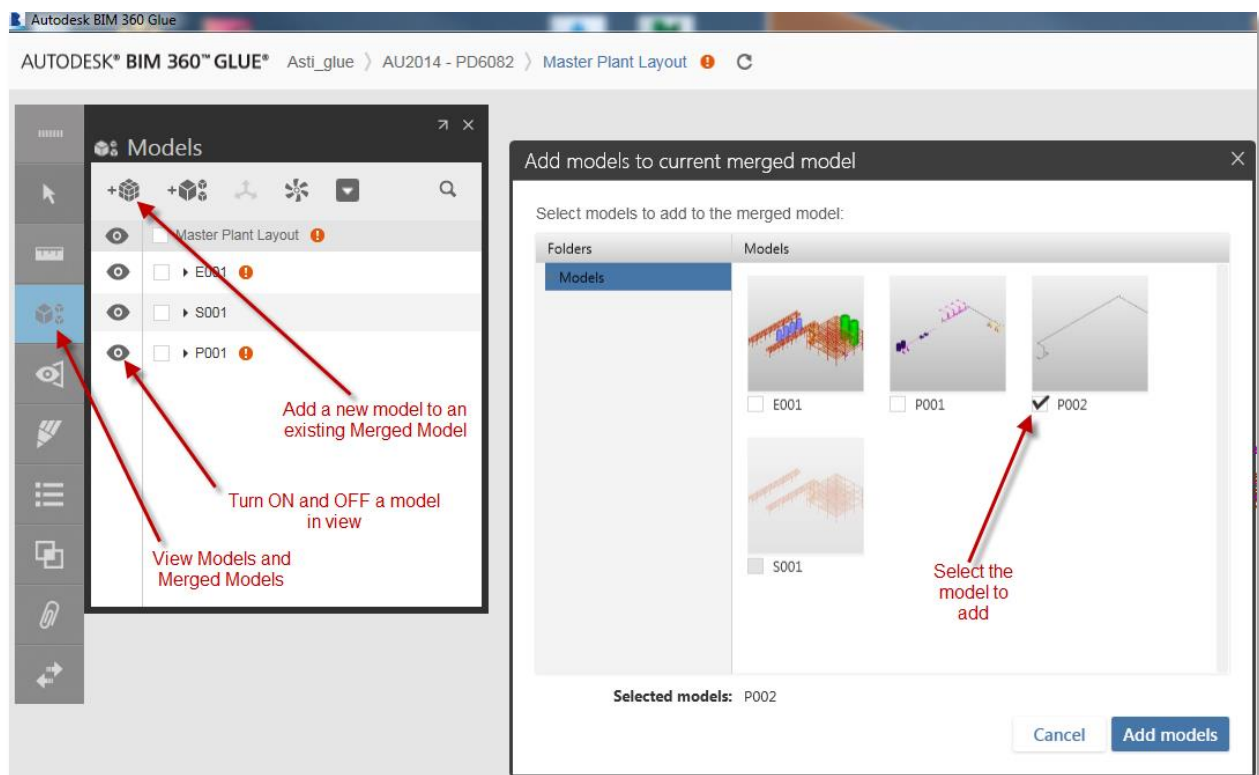


*On*



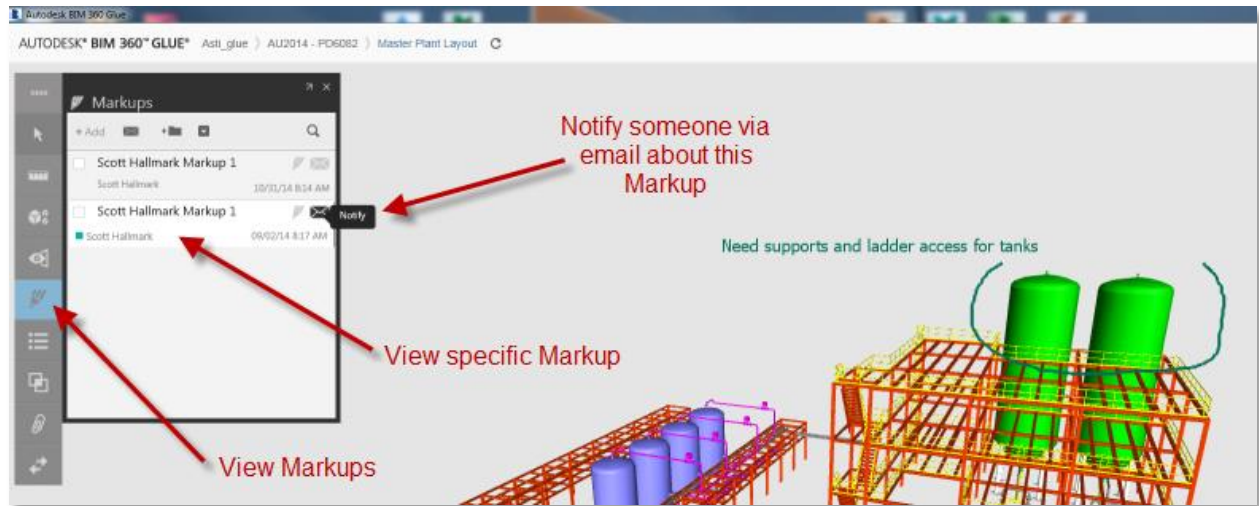
*Off*

*You can create multiple Merged Models or you can simply view one model at a time. The configurations are completely up to you.*




## Markups

*Use Markups to leave notes from the field to the engineers and designers back at the office to fix items that are incorrect or need more detail.*



*Markups save the views and can be emailed directly to individuals, which will allow them to see your notes and make the corrections or design changes.*

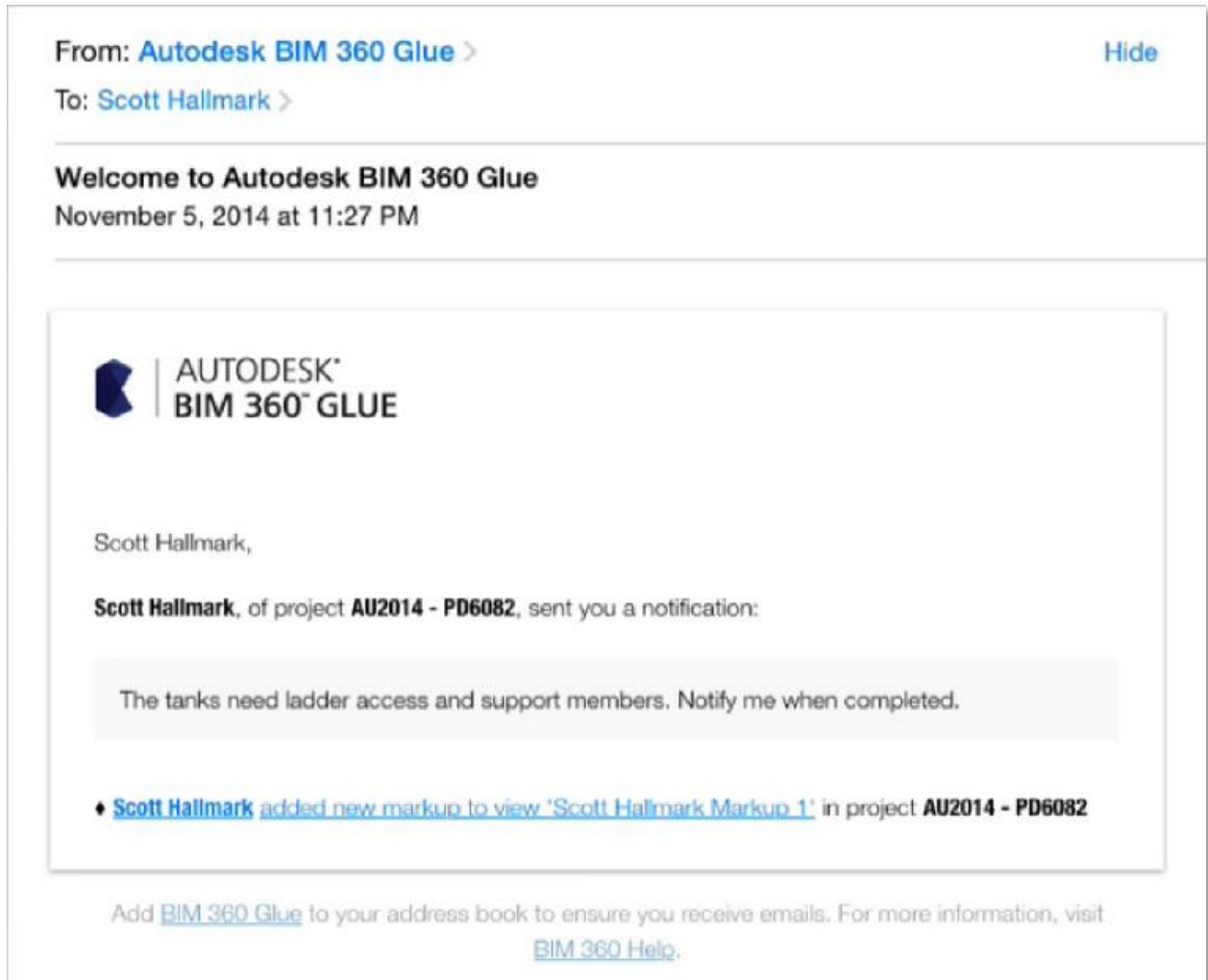
The screenshot shows a 'Notify Project Members' dialog box. The title bar says 'Notify Project Members' with a close button. The main content area has a heading 'Notify project members of Scott Hallmark Markup 1'. Below this is a 'To:' section with a table of recipients. The table has columns for 'Name' and 'Email'. The first row shows a checked checkbox, a profile picture, the name 'Scott Hallmark', and the email 'shallmark@asti.com'. Below the table is a 'Message: (optional)' section with a text input field containing the text 'The tanks need ladder access and support members. Notify me when completed'. At the bottom right are two buttons: 'Cancel' and 'Send'.

<input checked="" type="checkbox"/>	Name	Email
<input checked="" type="checkbox"/>	 Scott Hallmark	shallmark@asti.com

Message: (optional)  
The tanks need ladder access and support members. Notify me when completed

Cancel Send

*The individual will immediately receive an email telling them details of the markup and a link to go directly to the Markup created in Autodesk® BIM 360™ Glue®.*

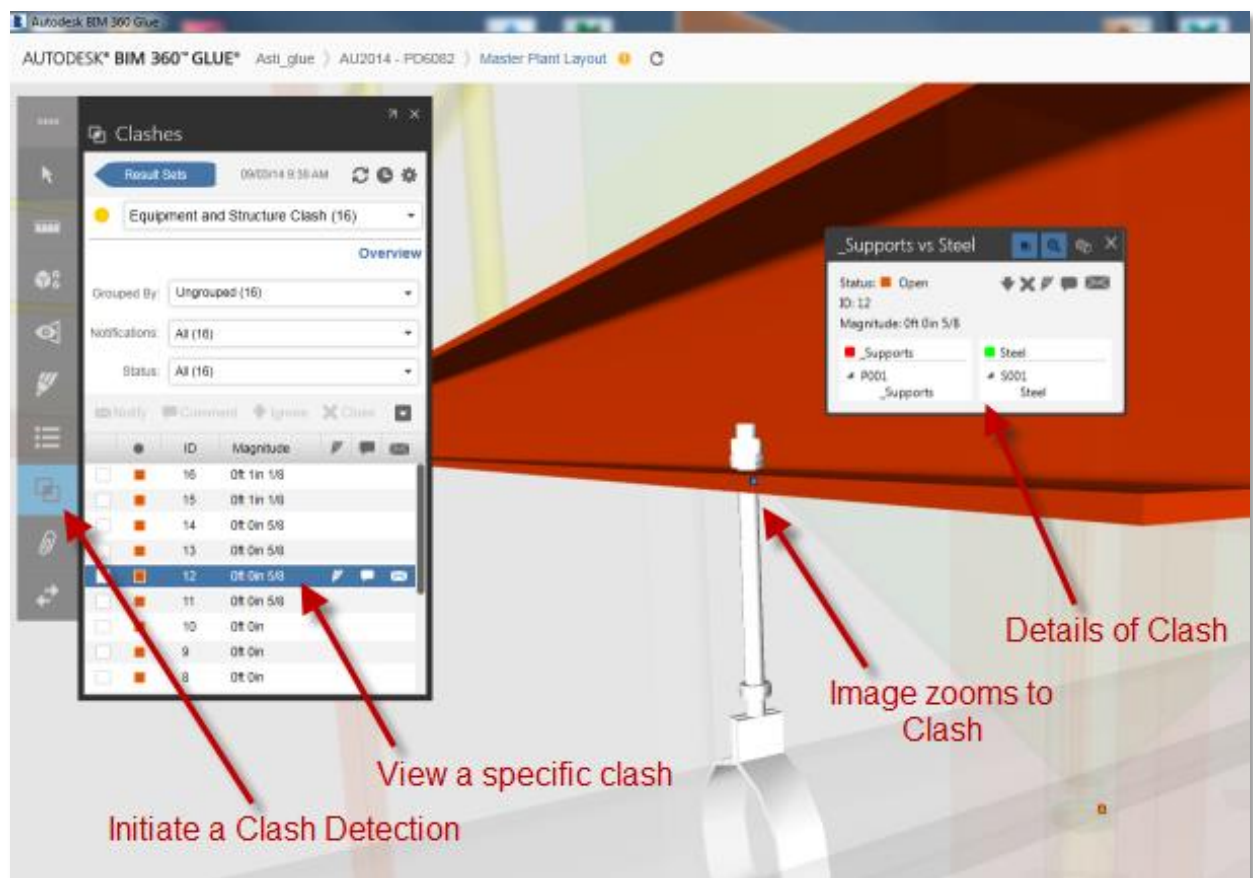
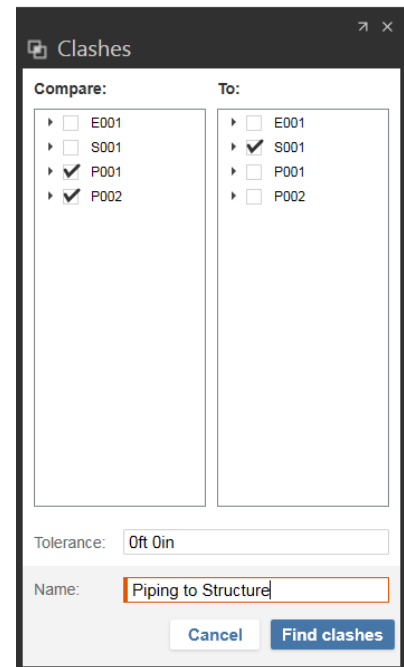


## Clash Detection

*The Clash Detection in Autodesk® BIM 360™ Glue® is extremely simple to use. You can get very detailed with your selections or keep it as simple as “Piping to Structural” clashes only, for example.*

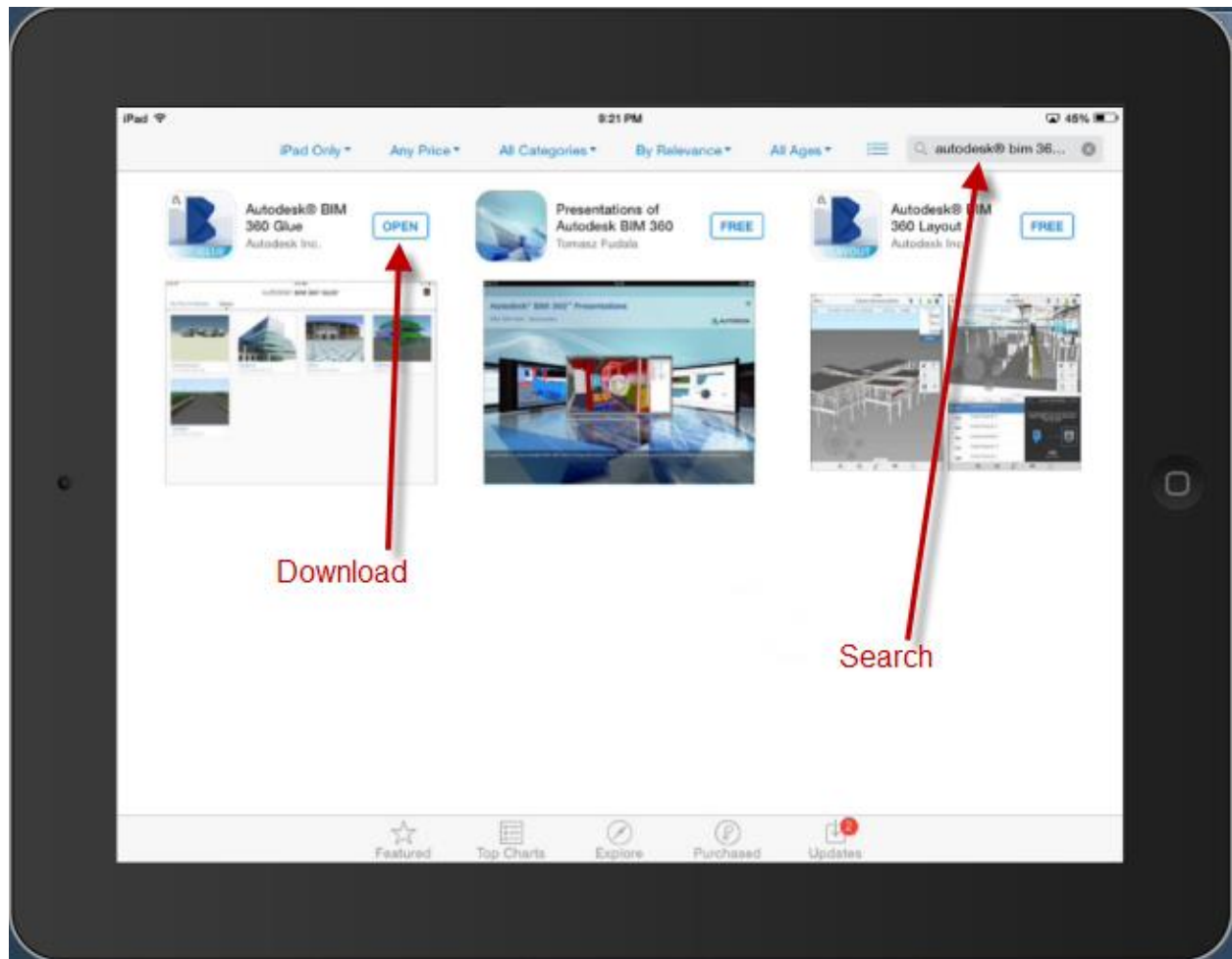
*Once a Clash Detection is executed, you will see a list of Clashes and you will be able to zoom to any of the clashes listed. You can also notify Engineers or Designers in the same manner as we did with Markups.*

*Once a clash has been addressed and evaluated, the user can make additional comments about the clash, or mark it as either **IGNORED** or **CLOSED**. A **blue down arrow** indicates that a clash has been ignored and a **green X** indicates that the clash has been adjusted or closed.*

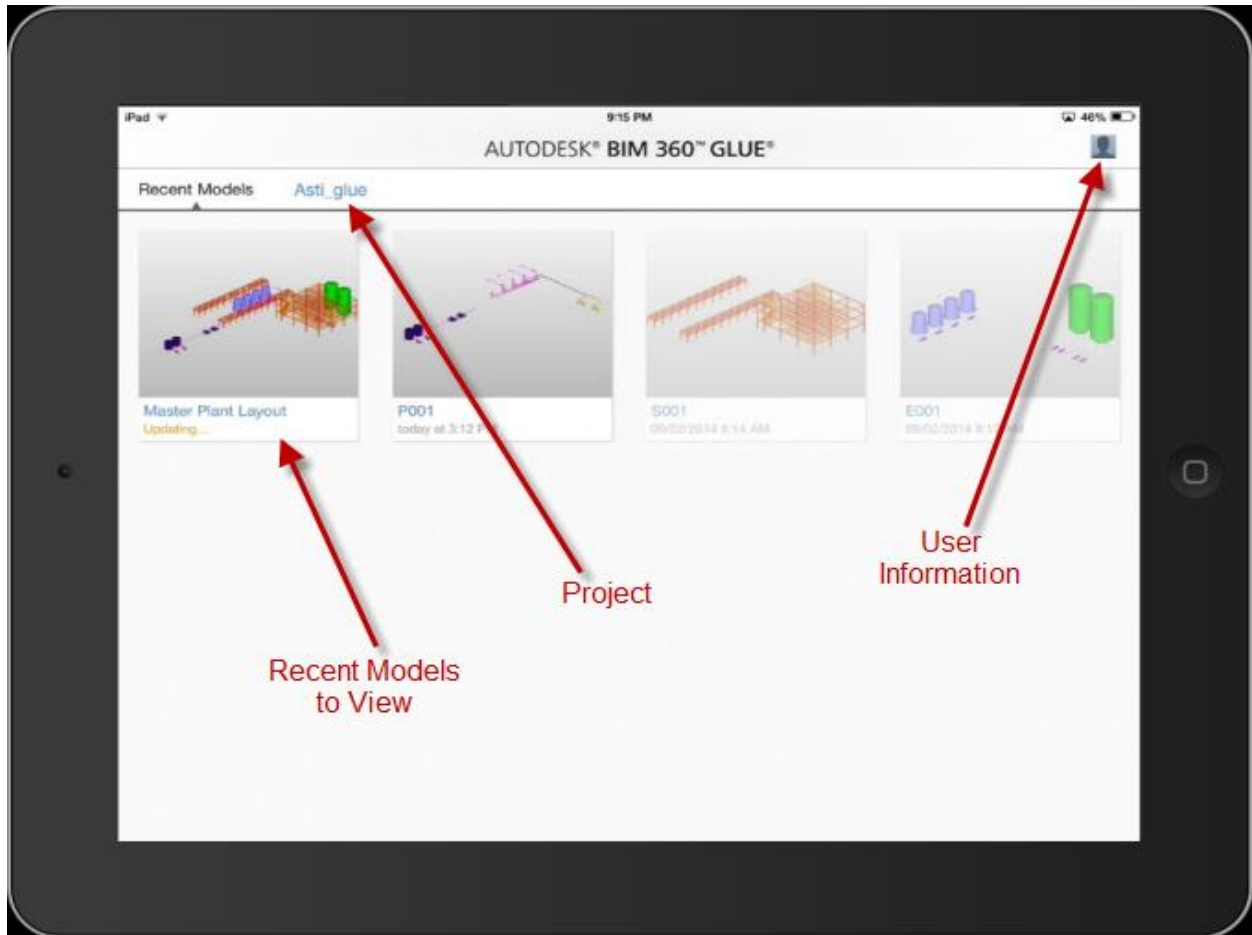


## Use mobile tools with Autodesk® BIM 360™ Glue® software

You can download the Autodesk® BIM 360™ Glue® App on an iPad through the Apple App Store. It requires iOS 7.0 or later and takes up 58.9MB of space on the iPad.



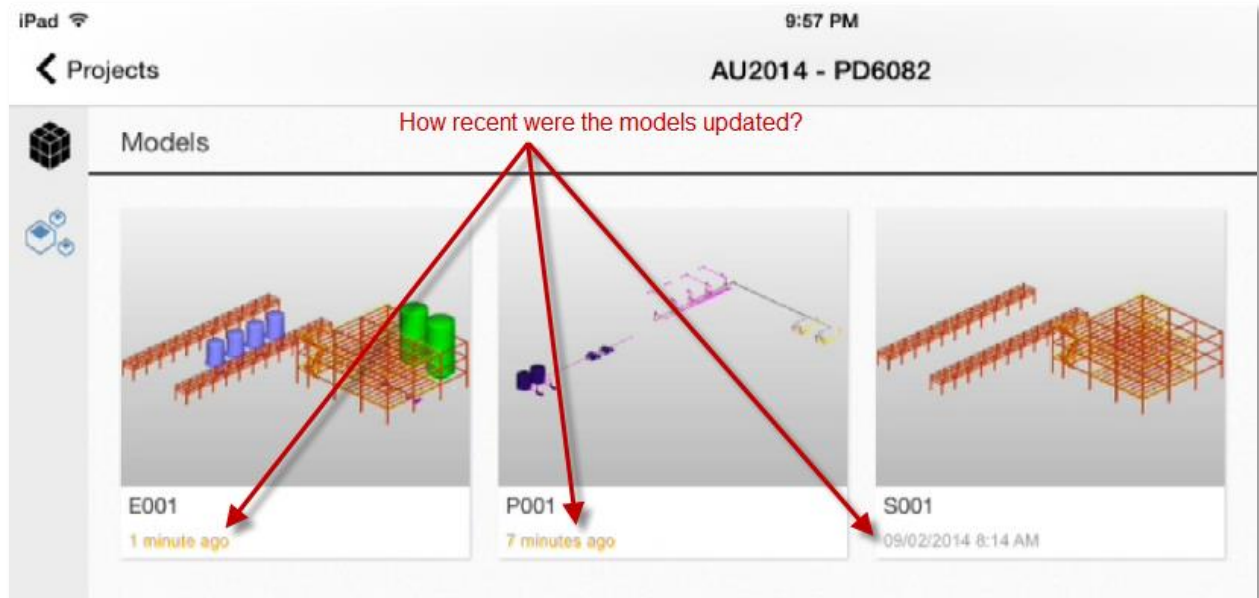
Once installed, you will be able to login and see Recent Models and Active Projects



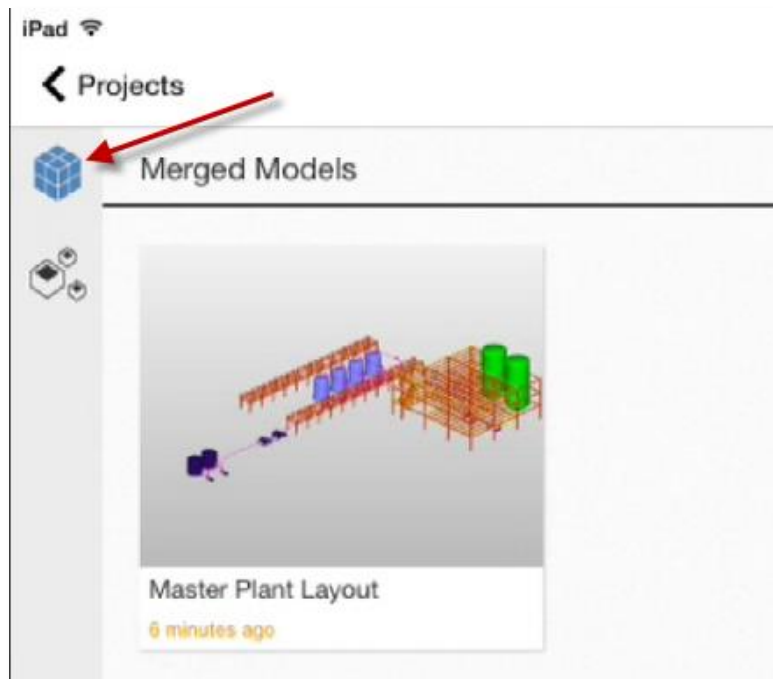
If any of the models show a cloud symbol in the upper right corner of the dialog, simply click the cloud to get the latest model into the project.



You can also see how recently the models were updated in real time to ensure you are working with the latest and greatest files in the project.

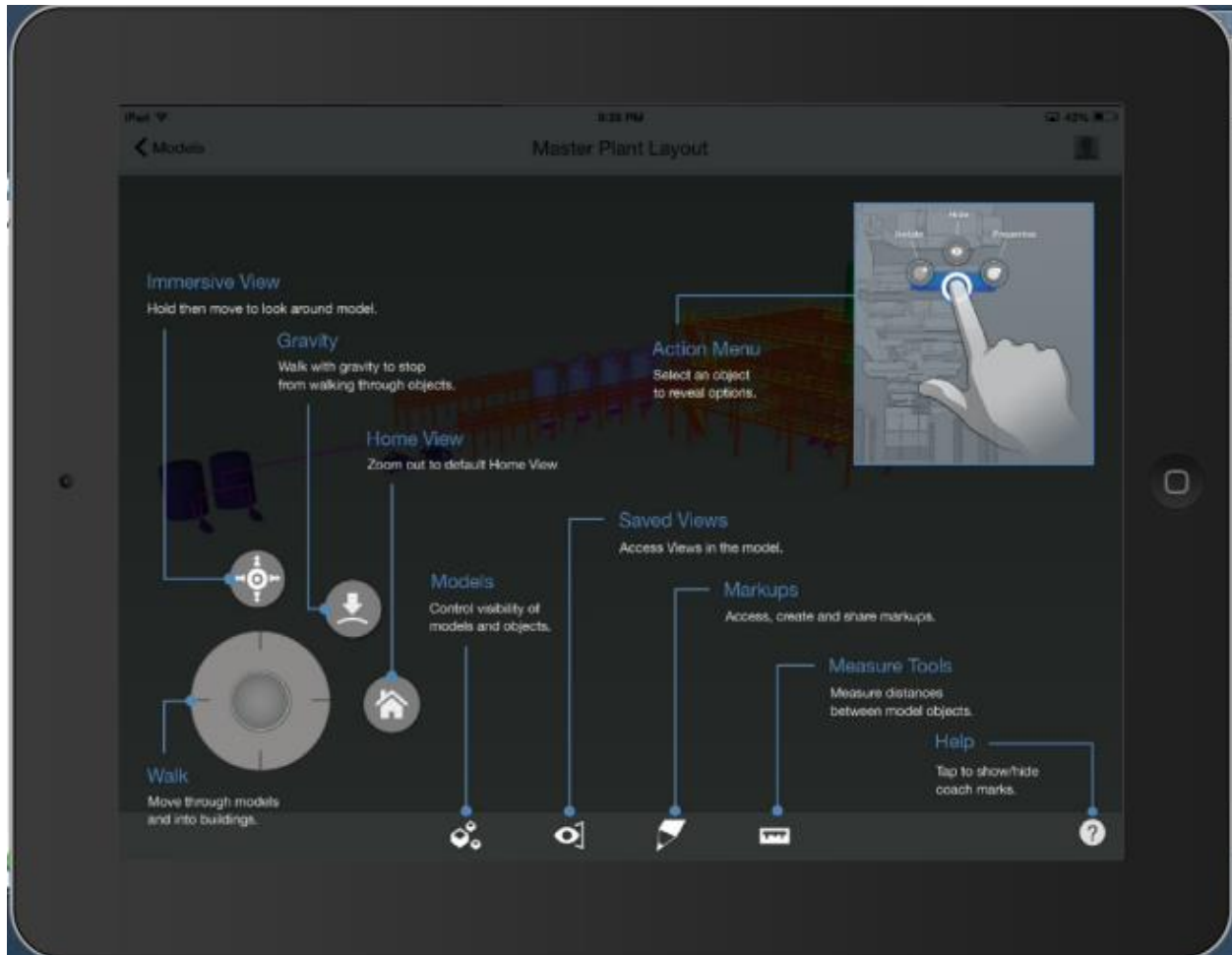


In a Merged Model layout, you are able to add all the files pertaining to the project in a single view.





Use these tools on screen to navigate the model.



All the tools listed above match the icons from the desktop version of Autodesk® BIM 360™ Glue®. Test them out and see what all you can do with the mobile version of Glue!

**A very cool tool to try is the Immersive View!**

*Immersive View allows you to be in a room or plant at a specific spot that matches the model's location and be able to move the iPad around (up and down, side to side) while holding down Immersive View and look around the plant or room, even if there is nothing currently in the plant, and digitally visualize the piping, equipment and structures as they exist in the model.*