Plant 3D User Community Virtual Meet Up
11th August 2020

David Manning
Designated Support Specialist
Plant 3D User Community Virtual Meet Up
August 11th, 2020

Jason Drew
Designated Support Specialist

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Martin Buss
Designated Support Specialist
Before we begin

Keep your line muted to reduce background noise, until you ask a question.

Have a question? Use the Questions box or raise your hand.

This webinar is recorded. The recording will be available on this YouTube Playlist.
David Manning
Designated Support Specialist

Providing technical support to enterprise customers and the Autodesk communities in the following products and associated workflows:

- Plant 3D and P&ID
- AutoCAD
- ReCap
- Recap Photo
- Navisworks
- Fusion 360
- Vault
- BIM 360 tools
- With Autodesk since 2015
- My industry Experience:
  - 6 years Steam Plant Design
  - 12 Years Piping Design (Oil & Gas).
- Also interested in Mechanical Design, Additive and Generative manufacturing.
Vinod Balasubramanian

Senior Product Support Specialist

Vinod is currently a senior technical lead for AutoCAD toolsets software and a regular speaker at Autodesk University. He is responsible for handling business escalations on support issues, preparing partners for new releases, creating high-quality knowledge content, and helping to improve total experience of product for customers.
Martin Buss
Designated Support Specialist

- Premium Support Specialist at Autodesk since 2015.
- Mechanical engineer with experience in process engineering projects (power plant / pharma).
- Work experience with CAD piping applications like PDMS, PDS and Plant 3D.
- Supporting; Plant 3D, P&ID, BIM 360, Navisworks and AutoCAD.
Joel Harris
Designated Support Specialist

Providing technical support to enterprise customers and the Autodesk communities in the following products and associated workflows:

- Plant 3D and P&ID
- AutoCAD
- ReCap
- Recap Photo
- 23 years process piping designer
- 6 years AutoCAD developer/partner
- 5 years Autodesk Specialist

- Navisworks
- Vault
- BIM 360 tools
Providing technical support to enterprise customers and the Autodesk communities in the following products and associated workflows:

- Plant 3D and P&ID
- AutoCAD
- Inventor
- 3DS Max
- Navisworks
- Fusion 360
- Vault

- IT Support – 10 years
- P&ID Design (Oil & Gas) – 3 years
- Autodesk – 8 years

Jason Drew
Designated Support Specialist

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- Plant 3D and P&ID
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- Fusion 360
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- IT Support – 10 years
- P&ID Design (Oil & Gas) – 3 years
- Autodesk – 8 years
Nabil Nougha

Technical Specialist AEC / Plant

Providing technical guidance and adoption to customers and the Autodesk communities in the following products and associated cross industry’s workflows:

- Plant 3D and P&ID
- AutoCAD
- Revit
- Recap
- Navisworks
- Inventor
- BIM 360

- 8 years at Autodesk, based in Dubai since 2014
- 10 Years Piping Designer & Superintendent positions
- Oil & Gas, Water, Petrochemical, Nuclear Industries
Agenda

- Overview
- Plant 3D News: General Updates and News
- This Month's theme:
  - Project Units
- Follow up Questions from last month
- Open Discussion and Q&A
Overview

Objective:

- Overview of project units
- Units for catalogs and specs
- Best practices for imperial / metric parts in a project

Scope:

- Each session is intended to be a casual engagement, with a small portion for news and information followed by a more general discussion around the products and workflows. The discussion is hopefully driven from the users attending.
Safe Harbor Statement

- We may make statements regarding planned or future development efforts for our existing or new products and services. These statements are not intended to be a promise or guarantee of business results, future availability of products, services or features but merely reflect our current plans and are based on factors currently known to us. These planned and future development efforts may change without notice. Purchasing and investment decisions should not be made based upon reliance on these statements.

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Plant 3D News
Plant News

- BIM 360 Model Coordination Spaces
  - Now supports folders within **Project Files** vs. the **Plans** folder
  - Provides support for Plant 3D models in *BIM 360 Model Coordination*
Plant 3D Project Units Overview
Project Unit Setting

Initial Project Setup

- **Imperial**
  - All unit-based properties are reported in inches

- **Metric**
  - Most unit-based properties are reported in millimeters
  - Option to report diameters of imperial content
    - Millimeters
    - Inches (Mixed Metric)
Project Units
After Project Creation

- Project units **cannot** be changed after project is created
- Drawing unit compatibility across projects

<table>
<thead>
<tr>
<th>Project Units</th>
<th>Copy into Imperial</th>
<th>Copy into Metric</th>
<th>Copy into Mixed Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Mixed Metric</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Imperial</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Units for Catalogs and specs
Imperial and Metric Parts

Parametric vs. Block Based

- Parametric (dimension driven) shapes

- AutoCAD DWG - 3D block-based graphics
Units for Catalogs – Parametric Parts
Imperial and Metric Parts

Parametric

- Creating catalog parts
  - Define the units
Imperial and Metric Parts
Parametric Part Definitions

• Be sure to edit with the catalog native units
• Recommend using a single unit type for each catalog of parts
Imperial and Metric Parts

Parametric Part Definitions

• Quick tip #1 Always clear filters before creating new parts
  • If a catalog filter is active when creating a new part, no editing is possible
  • Clear the filter and start the initial part creation process again
Imperial and Metric Parts

Parametric Part Definitions

- Quick tip #2 – Default (Parametric) Part Dimensions
  - Creating new parts - the initial dimensions are a default value
  - Always check and adjust for all part sizes
Units for Catalogs – Block Based Parts
Imperial and Metric Parts

Block Based

• Requires:
  • Proper scaling of the block in the DWG
  • Proper block unit / insertion scale for the catalog unit type
Imperial and Metric Parts

Block Based

• Example:
  • 3D Block for a 100 mm Gate Valve for use in Metric Catalog
Best practices for Imperial / Metric parts
Best Practices
Part Connection / Joint Configuration

• Joint option to allow imperial to metric components
Best Practices
Part Connection / Joint Configuration

Connection between an Imperial and Metric component has been made.

The two components have differing unit types, but the connection is valid based on project connection settings.
Best Practices

Toggle Unit Size Display Mode

• PLANTSIZEDisplayMode
  • AutoCAD System Variable

• Ribbon Bar Button
Best Practices

Toggle Unit Size Display Mode
Additional Resources

- Cadline Community Blog: AutoCAD Plant 3D 2013 Custom Blocks and Units
- AU 2018 Whitepaper: Creating Custom Parts for AutoCAD Plant 3D
- AKN: Block based component is inserted 25.4 times too big in an imperial AutoCAD Plant 3D project drawing
- AKN: Wrong scaling if a British block-based component will be inserted in a mixed-metric project
Thank you... for getting involved
Reference Materials and Links

- Autodesk Knowledge Network
- Autodesk University
- Autodesk YouTube
  - Plant search Link
  - Autodesk AutoCAD Plant 3D
- Autodesk ANZ
  - AEC Collection – Let’s make a project
- In The Pipes
Plant 3D Virtual Community Meetup resources

by Customer Success Team • on November 21, 2018

Overview
Objective:
- To provide a routine engagement with the Plant Design Community in the local region.
- To foster a collaborative user community while increasing the understanding and knowledge of Plant 3D and associated tools and workflows.

November 6th 2018
APAC Session
Agenda:
- Overview
- Plant 3D News
- Follow up on last months Questions
- Update 2019.1
- Open Discussion and Q&A

EMEA Session
Agenda:
- Overview
- Plant 3D News
- Follow up on last months Questions
- Update 2019.1
- Open Discussion and Q&A

AMER Session
Agenda:
- Overview
- Plant 3D News
- Follow up on last months Questions
- Update 2019.1
- Open Discussion and Q&A

More detailed agendas to be published in advance in 2019

Presentation PDF Link

Presentation PDF Link
The Customer Success Learning Hub

The Hub: A Place to Learn, Connect, and Share Expertise.

- Access to articles, product updates, tips and tricks, and more
- View previous webcasts
- Browse upcoming webcasts and live events
- Share expertise with industry peers and product teams

https://enterprisehub.autodesk.com
Plant 3D with the Experts

Information page with links

Plant 3D with the Experts - Video Blog Series

by Product Support Team • on August 16, 2019

Do you want to know more about Plant 3D?
Do you want to know a how to get started?
Are you an Plant 3D user or administrator with questions?

If you answered yes to any of these questions then this webinar series may be just the thing you need.

The Autodesk Product Support Team has planned a long list of short videos to help
AutoCAD Plant 3D Community MeetUp Webinars

Autodesk is proud to present our monthly AutoCAD Plant 3D Community MeetUp webinar series. In this space we will hear news and information on AutoCAD Plant 3D design solutions, participate in live Q&As with Autodesk specialists, and have the opportunity to connect with diverse members throughout the worldwide AutoCAD Plant 3D community.

The webinars are scheduled for 30 minutes, though we will always extend beyond the initial half hour whenever a lively discussion happens to take a life of its own.

- Americas Session
- Europe Session
- Asia/Pacific Session

View all upcoming Customer Success events
View all past Customer Success events

New registration page, now online:
https://www.autodesk.com/customer-success/plant-3d
Other Virtual Meetups

Share with your co-workers
Monthly Virtual Meetup

- Virtual Meetup is a monthly webinar and an ongoing forum engagement, supplemented by in-person meetings at AU Las Vegas and Regional AUs. Flavors of the main agenda:
  - Connect with Experts – best practices and live discussions with subject matter experts
  - Open mic – customers presenting their stories or workflows
  - Updates from product teams – a product team comes to share what’s new in the release and what’s coming next

https://customersuccess.autodesk.com/
Autodesk Health Dashboard

https://health.autodesk.com/

Sign In

Click Here

2021 + File Storage

2018 - 2020 File Storage

Services
“In the Pipes” Blog Has Moved

- As another step as Autodesk’s ongoing process to improve our customers experiences has moved the “In the Pipes” blog to a new home

https://blogs.autodesk.com/in-the-pipes/