

# FIN Builder

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This document guides you through use of the FIN Builder to create custom graphics for InferStack.

## Overview

J2 Innovations is a software and technology company specializing in the human experience as it relates to smart devices. The FIN (for Fluid Integration) framework is the core enabling technology for creating software solutions ranging from device programming tools to enterprise visualization applications. J2's goal is to "enhance the way humans interact with the connected world".

## FIN Builder

FIN Builder is a toolset for building UX (User eXperiences) that has been specifically designed to reduce the total installed cost of engineering the information presentation associated building automation systems. FIN Builder makes it easy to connect to and visualize data from many data sources, providing end users with a comprehensive unified solution.

## Installing

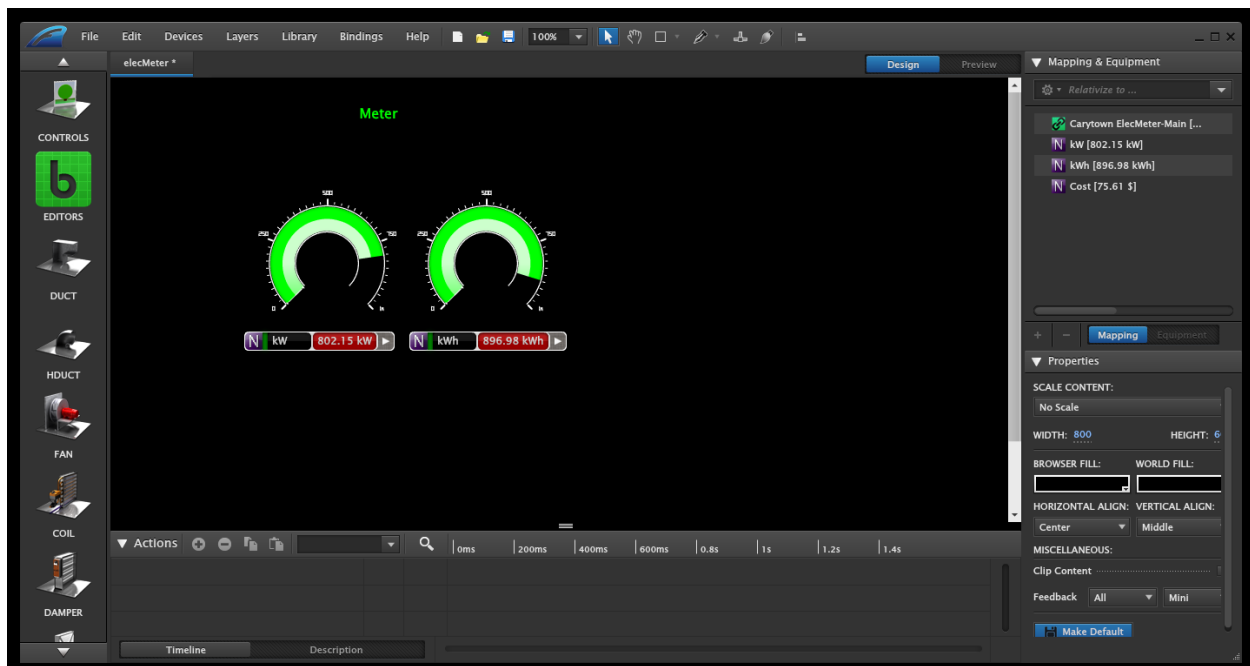
You must use FIN Builder to create or modify graphics for InferStack. It was developed by J2 Innovations at <http://www.j2inn.com/> and is available on the portal at <http://licensing.intellastar.com/doc/files/index> . Please use the appropriate FIN Builder for your version.

## Engineering Tools

	<a href="#">FIN Builder 3.0.235 for 2.1.11.air</a>	1-Oct-2015	66MB
	<a href="#">FIN Builder 3.0.241 for 2.1.12.air</a>	11-Nov-2015	66MB
	<a href="#">FIN Builder 3.0.266 for 2.1.13.air</a>	1-Mar-2016	66MB

**Note: You can no longer install builds before 3.0.235 and if you have a newer version of FIN Builder installed, you have to uninstall it first.**

You should be able to double click the download (.air) file to install and it will prompt you to install flash if you have not already. It is available here: <https://get.adobe.com/air/>.



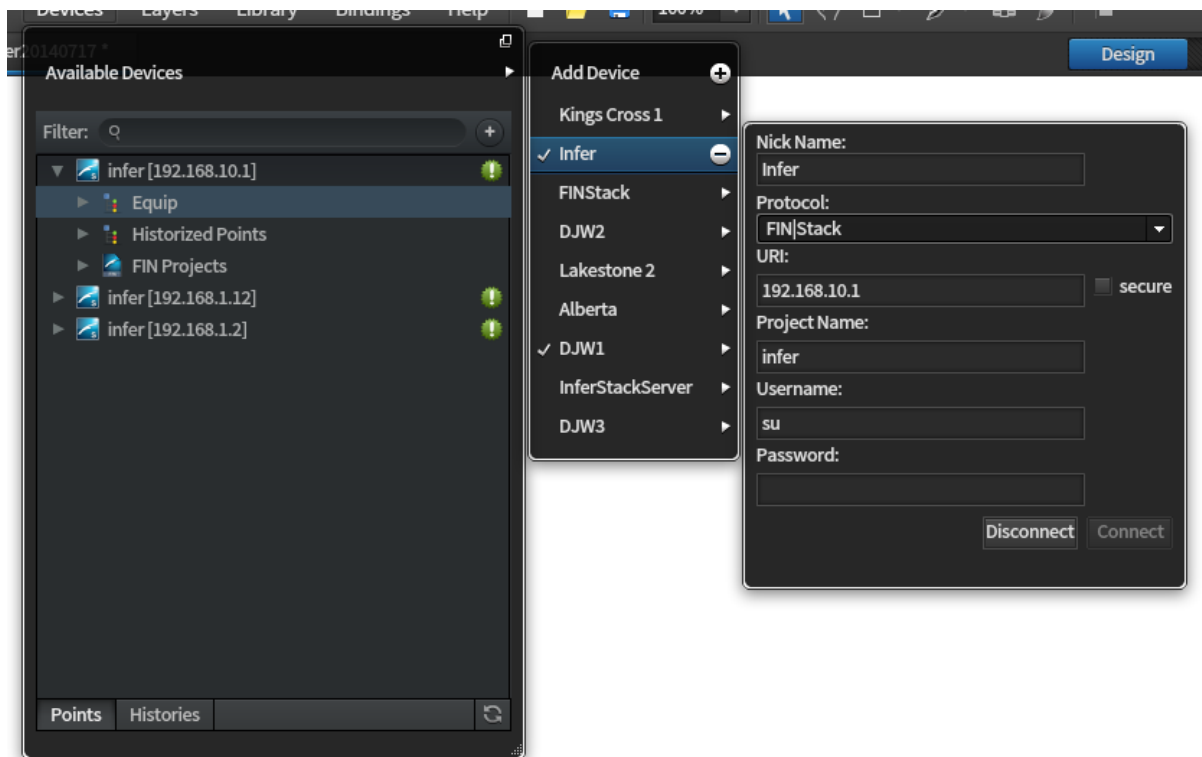
## Devices

You need to set up your devices in FIN Builder in order to publish graphics to them. Select Devices in the top menu and then Available Devices to see the devices defined.



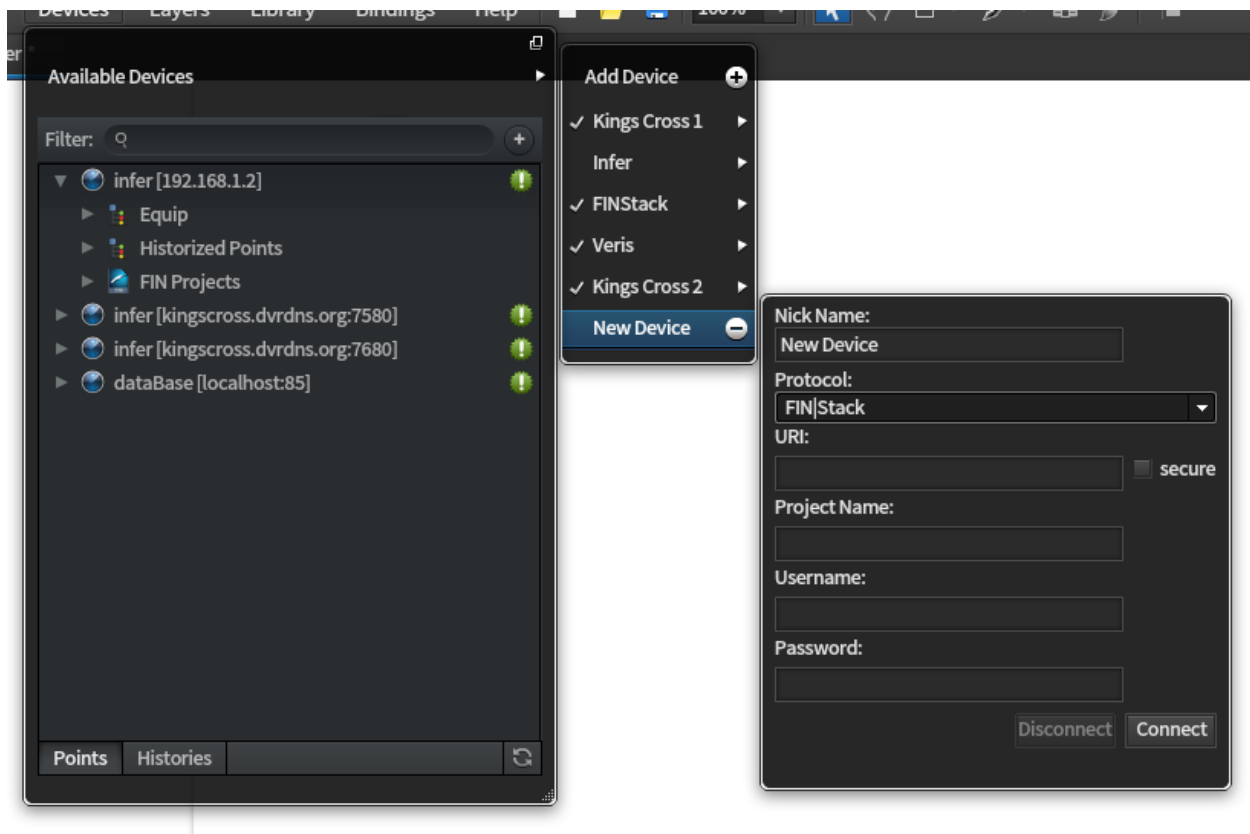
## Available Devices

Available devices lets you see the devices already defined or add new ones.



## Add Device

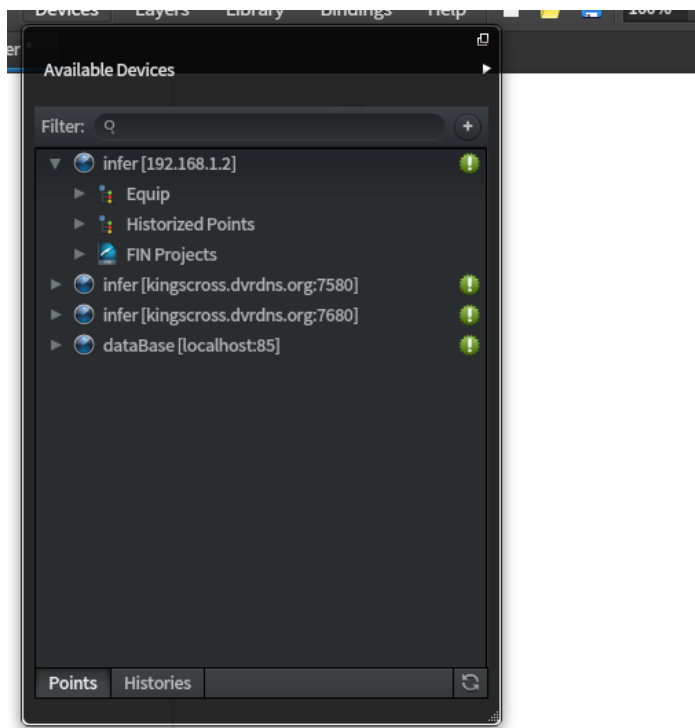
Use Add Device to add your devices.



Give your device a Nick Name, make sure FINStack protocol is selected, the URI, project, username & password and press Connect.

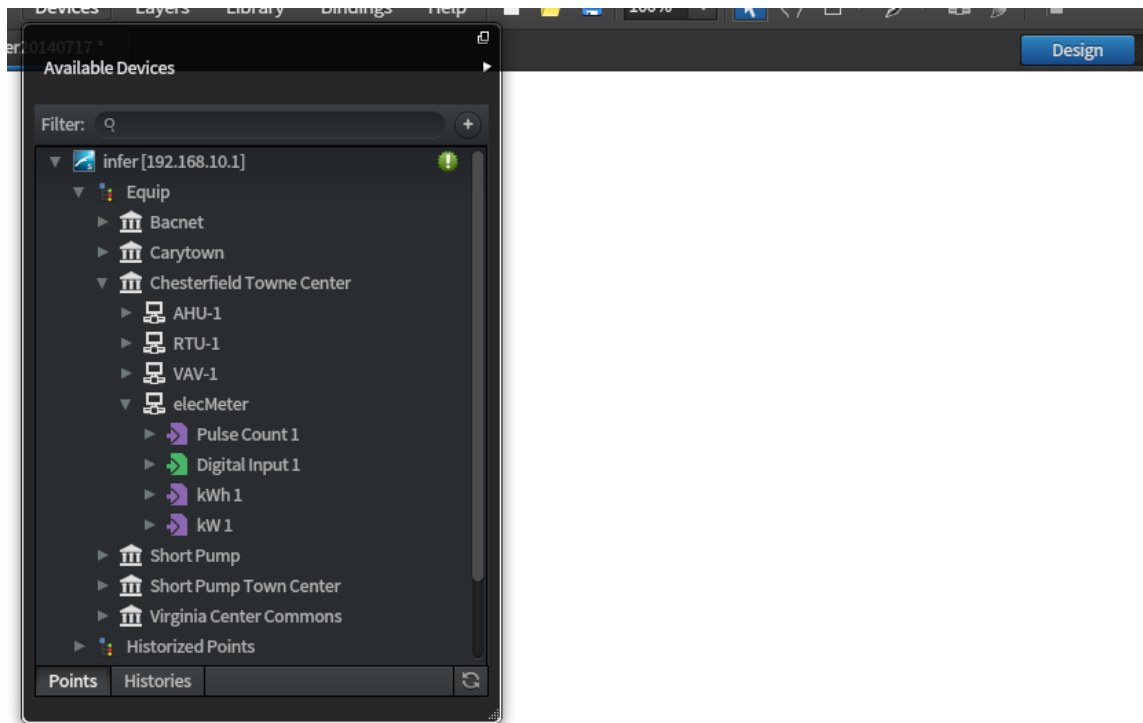
Right Click on your device to see Axon Query and License and Project Status.

Press the right arrow beside a device to see Equip, Historized Points and FIN Projects for your device.



## Equip

Press the right arrows further down the tree until you see points that you want in your graphic.

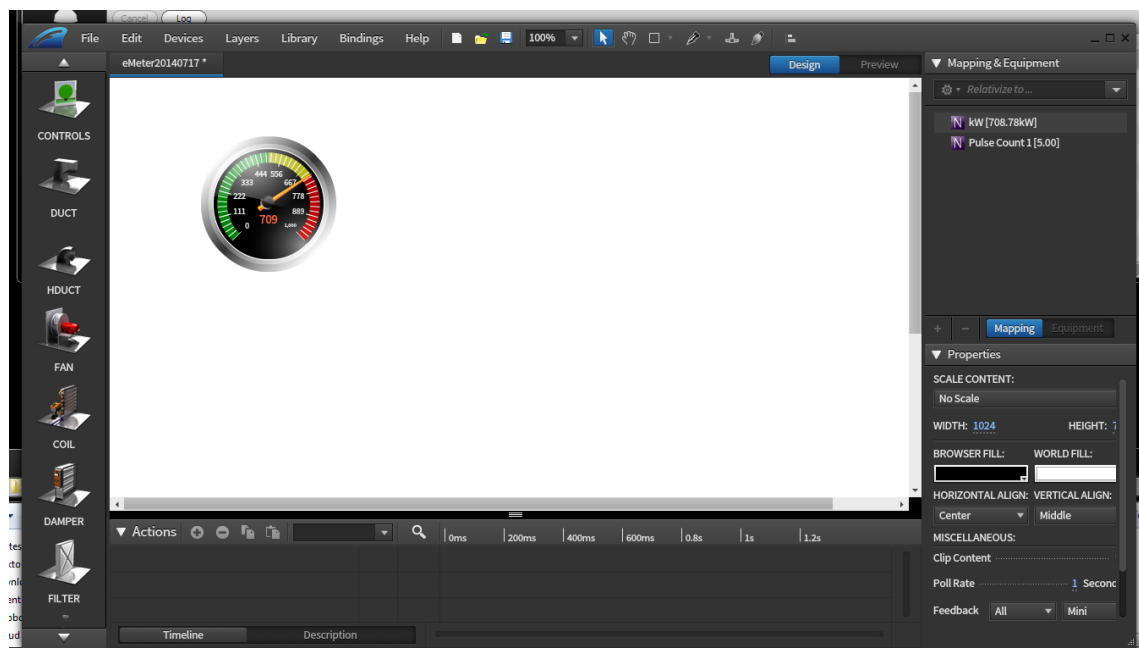


## Mapping & Equipment

The Mapping & Equipment pane shows the Points and Equipment that you have mapped from your device to your graphic.

### Mapping

You can drag points from your device to the right Mapping & Equipment Mapping pane to make them available.

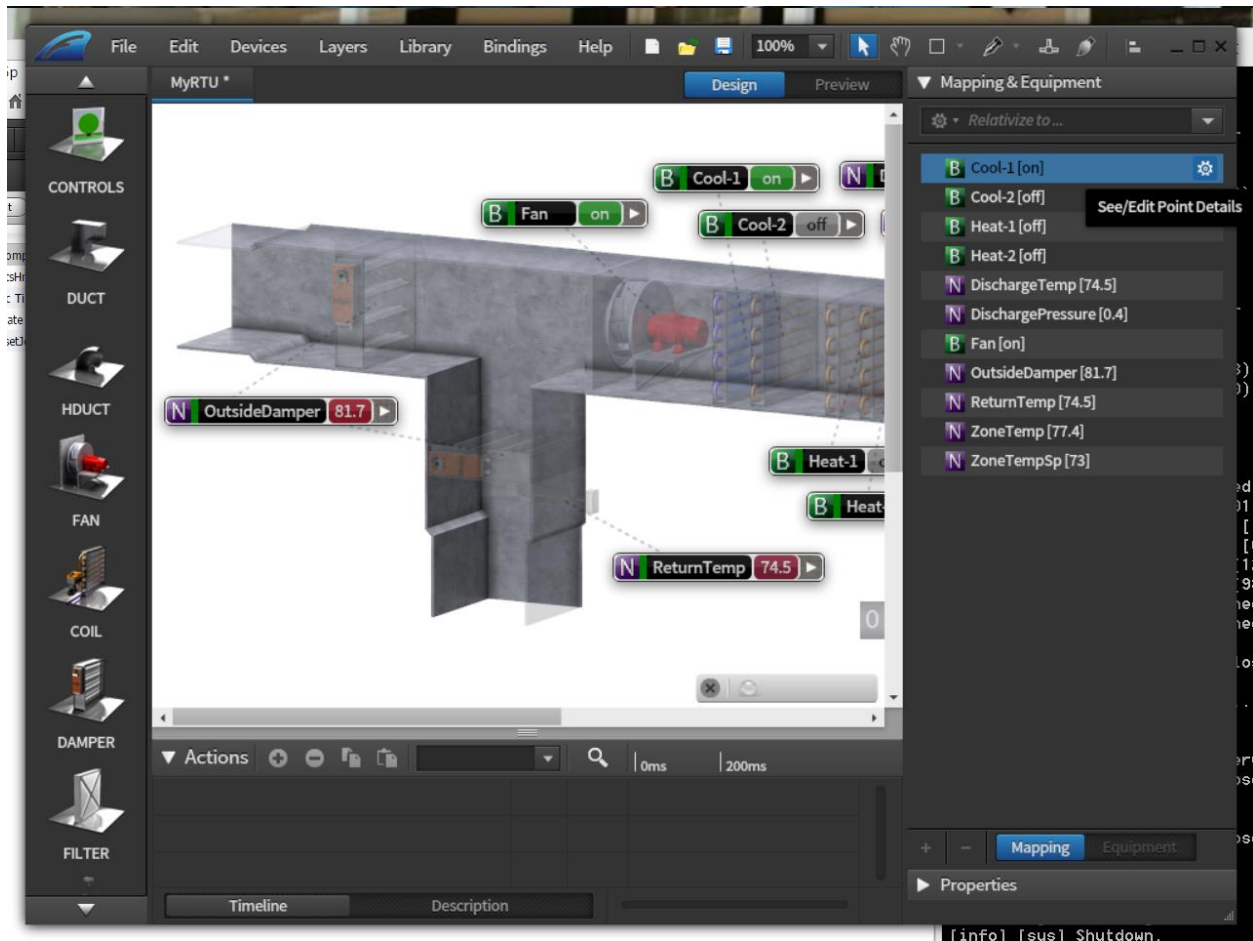


**Note: If you change points in your database after dropping them into mapping, you may need to Delete them and drop again.**

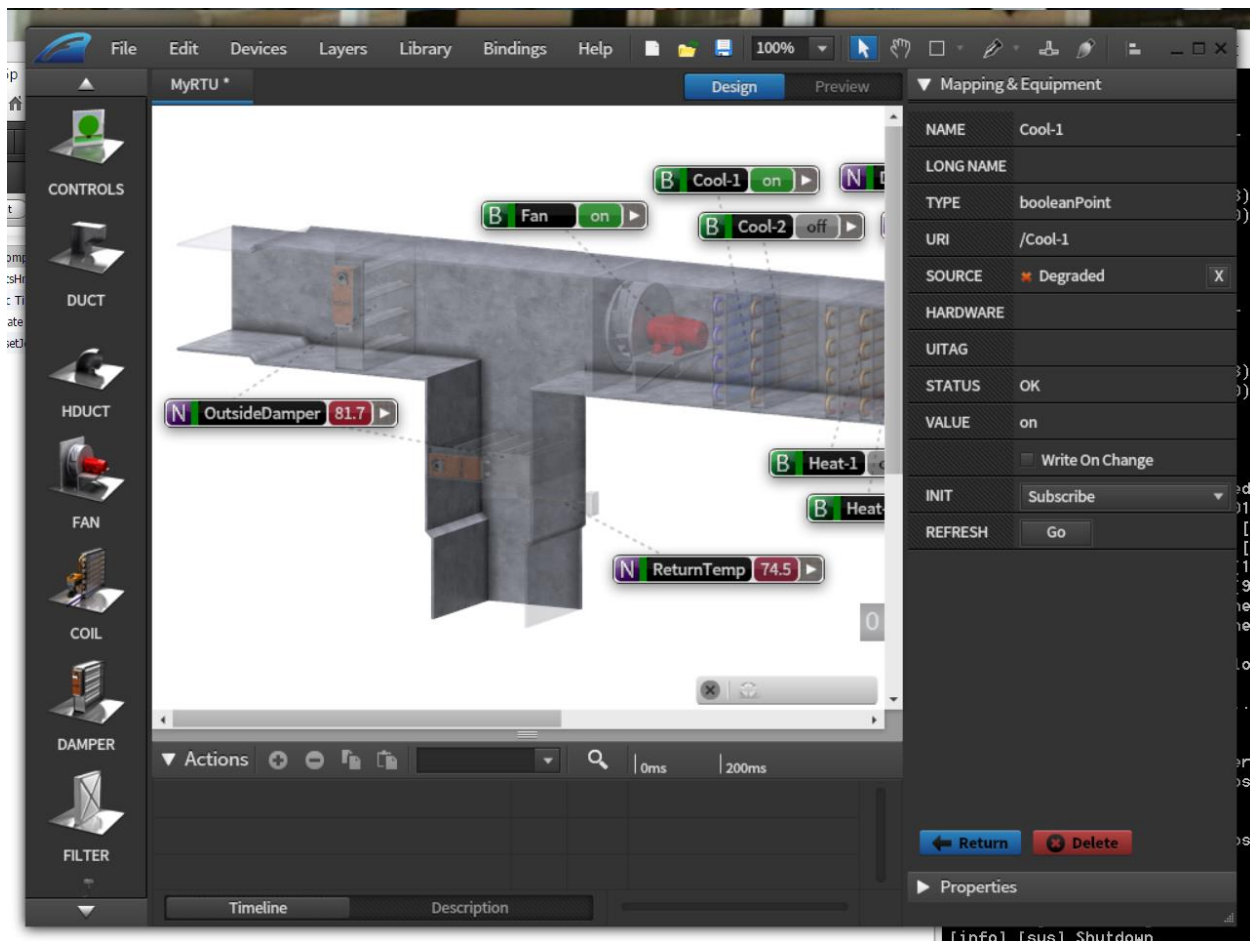
## Point Details

You can access Point Details using the gear to the right of each point.

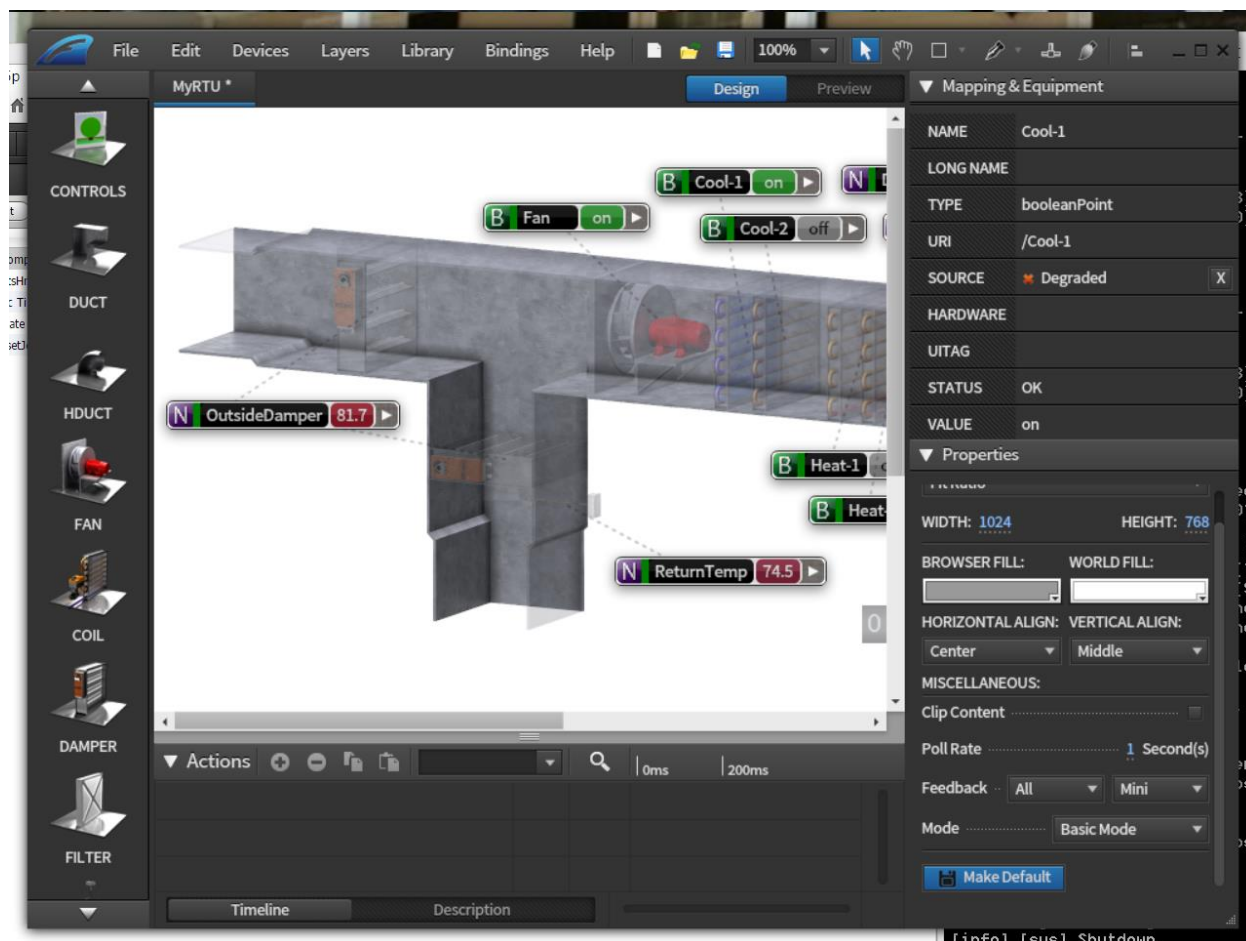




You can edit or delete point mappings here.

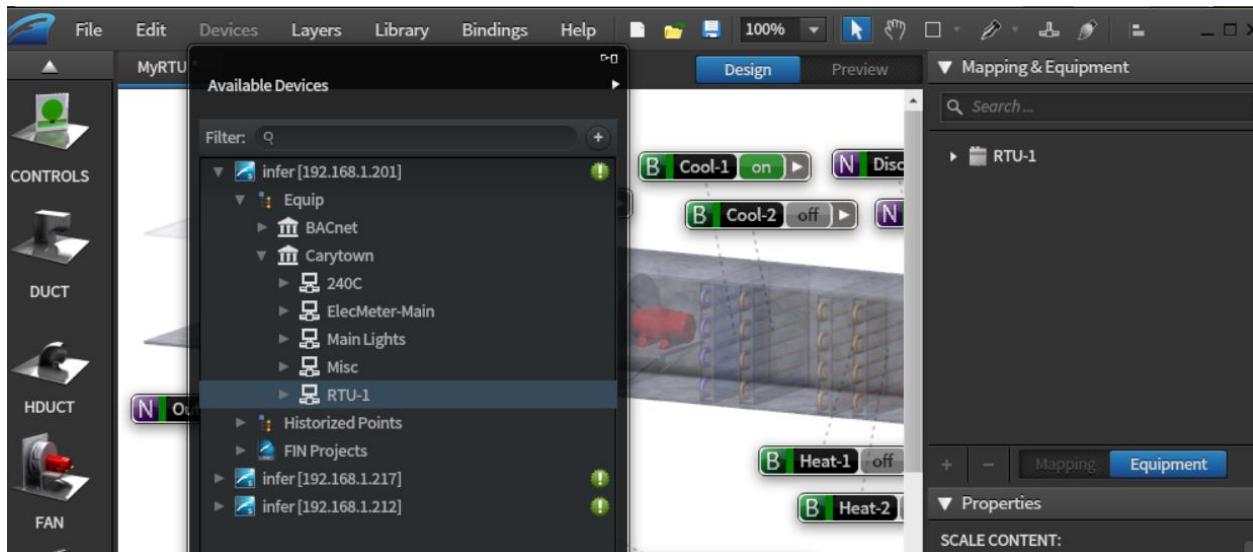


**Note:** You may need to press the down arrow beside Properties to see Return and Delete.

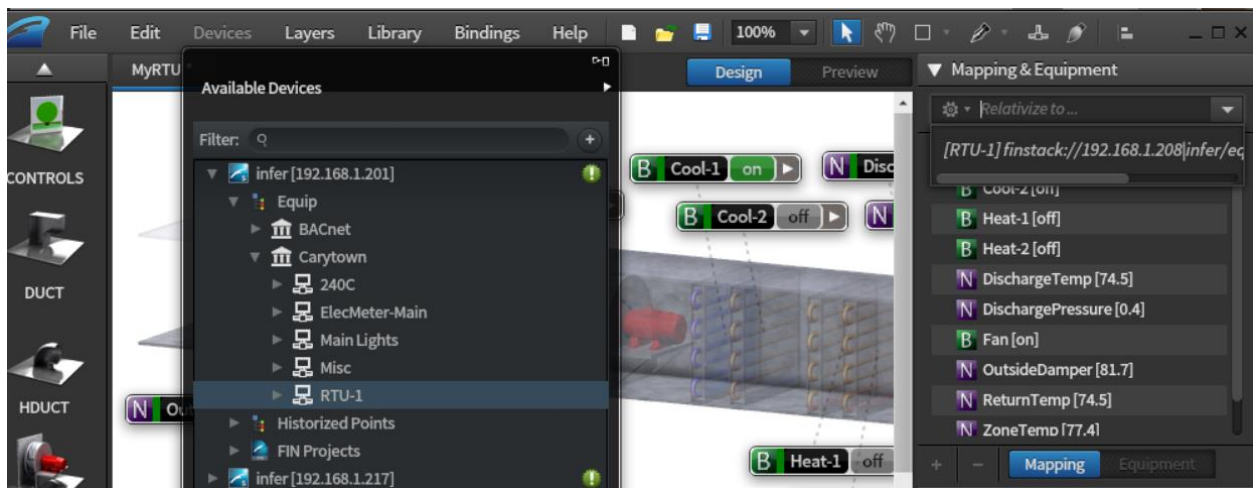


## Equipment

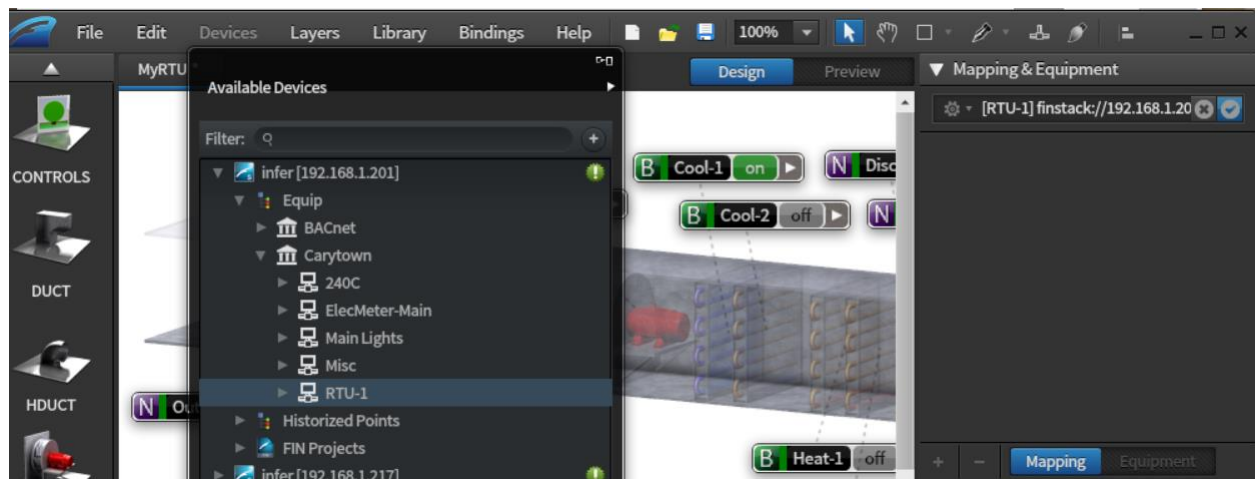
You can drag equipment from your device to the right Mapping & Equipment Equipment pane to relativize your points so that they work with other equipment.



Now select Mapping again and the dropdown Relativize to and select your equipment.



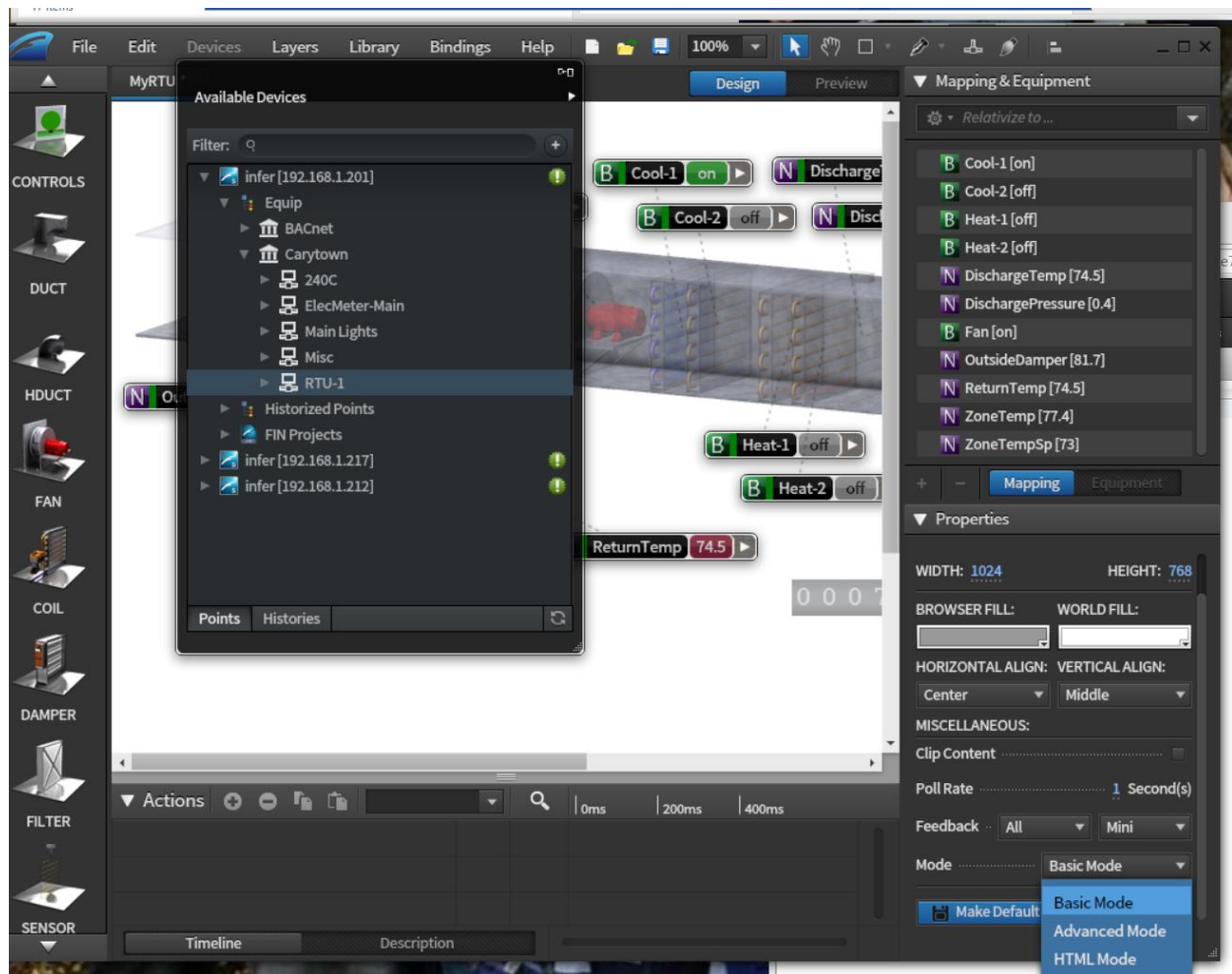
Press the check box to relativize.



## Advanced Mode

Advanced Mode provides access to additional features. Mode is at the bottom of the Properties window.

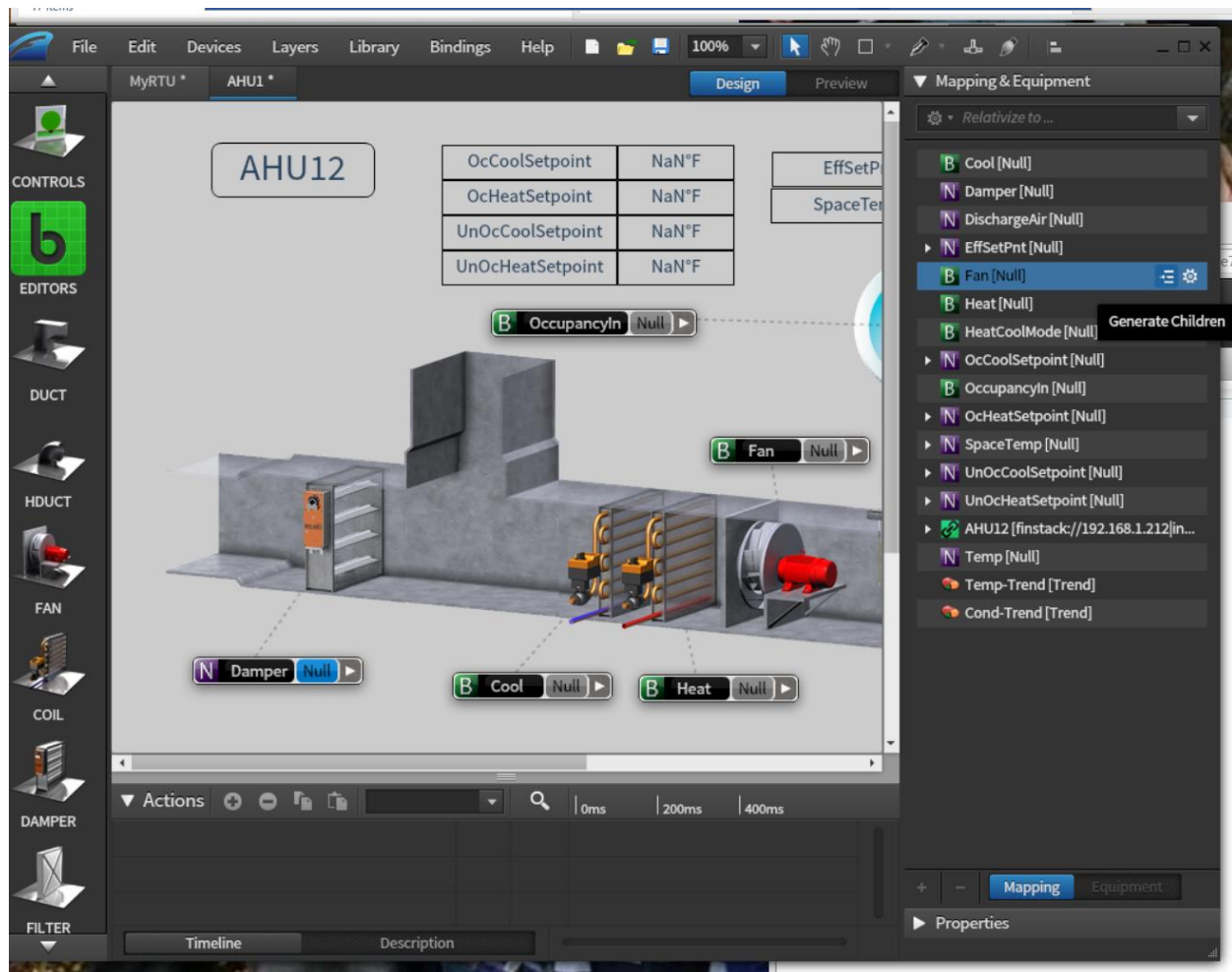
**Note: If you seem to be missing some features, you may need to select Advanced Mode.**



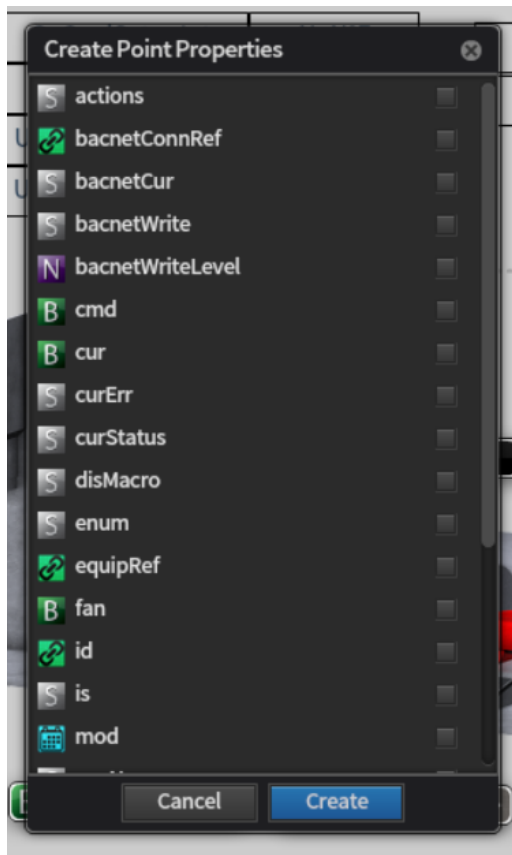
## Generate Children

If you are in Advanced Mode, you will see a generate children icon on your points that allows you to select other properties on the point.





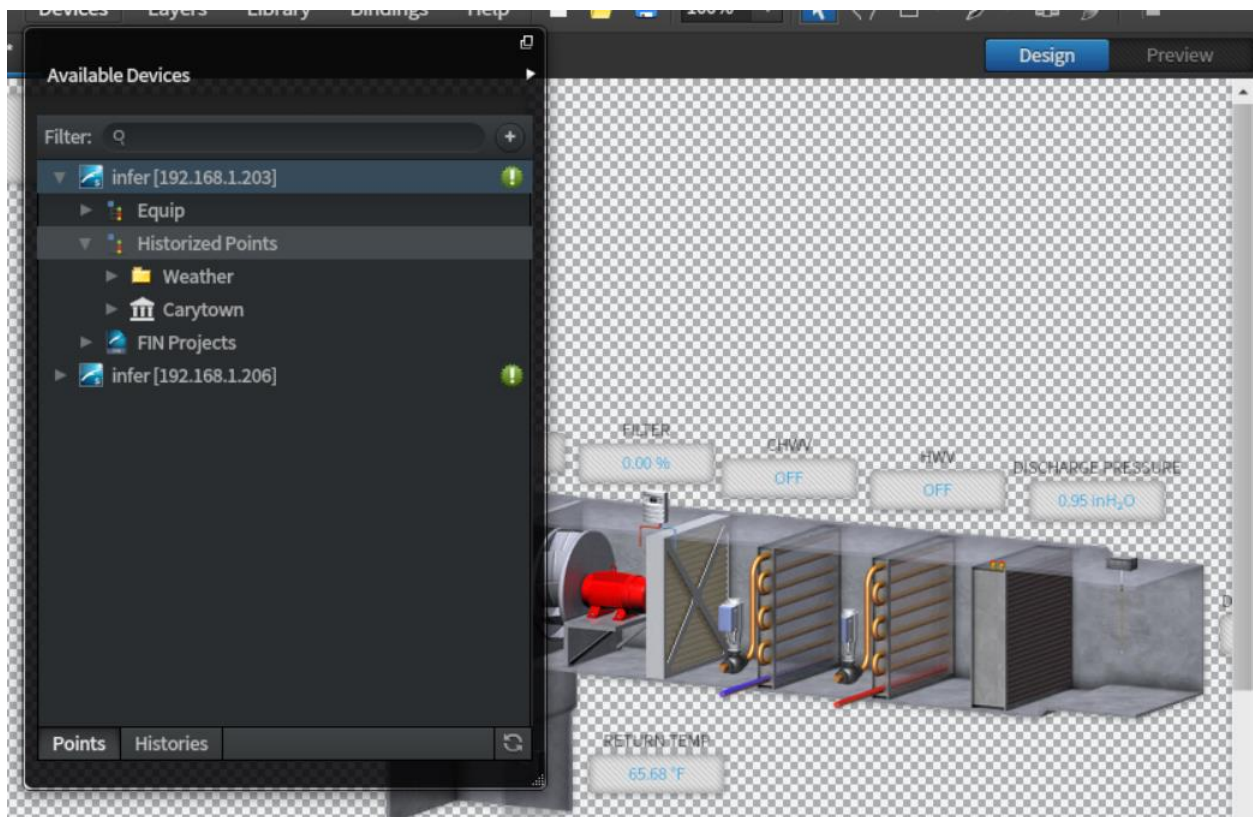
Select the properties you want and press Create.



## Historized Points

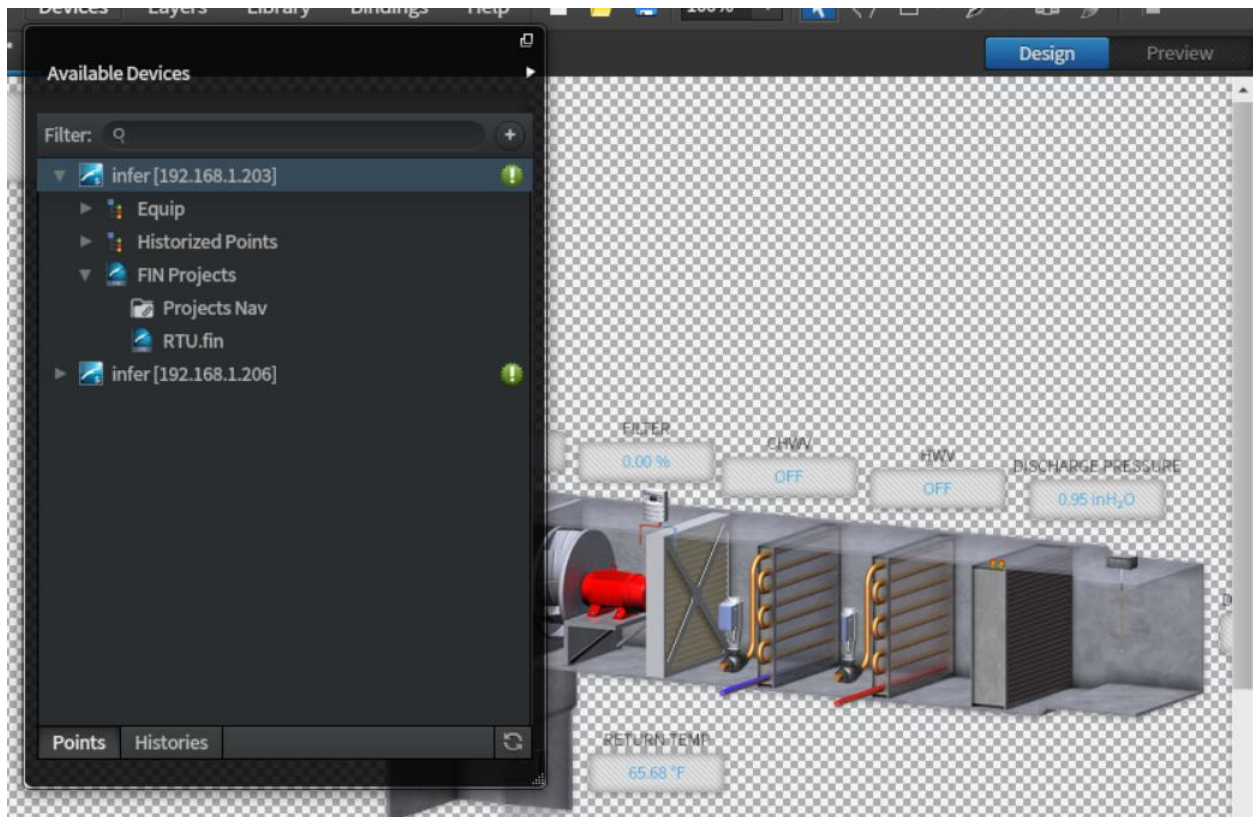
You can also see the historized points in the device.



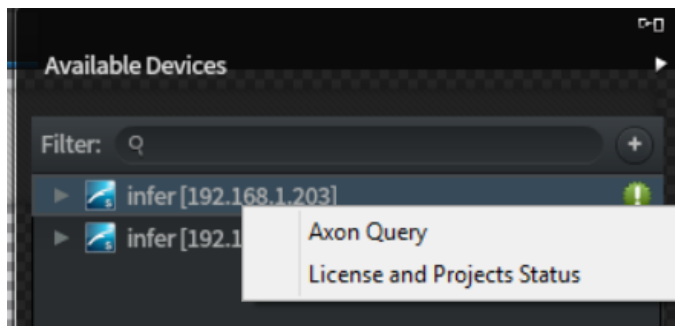


## FIN Projects

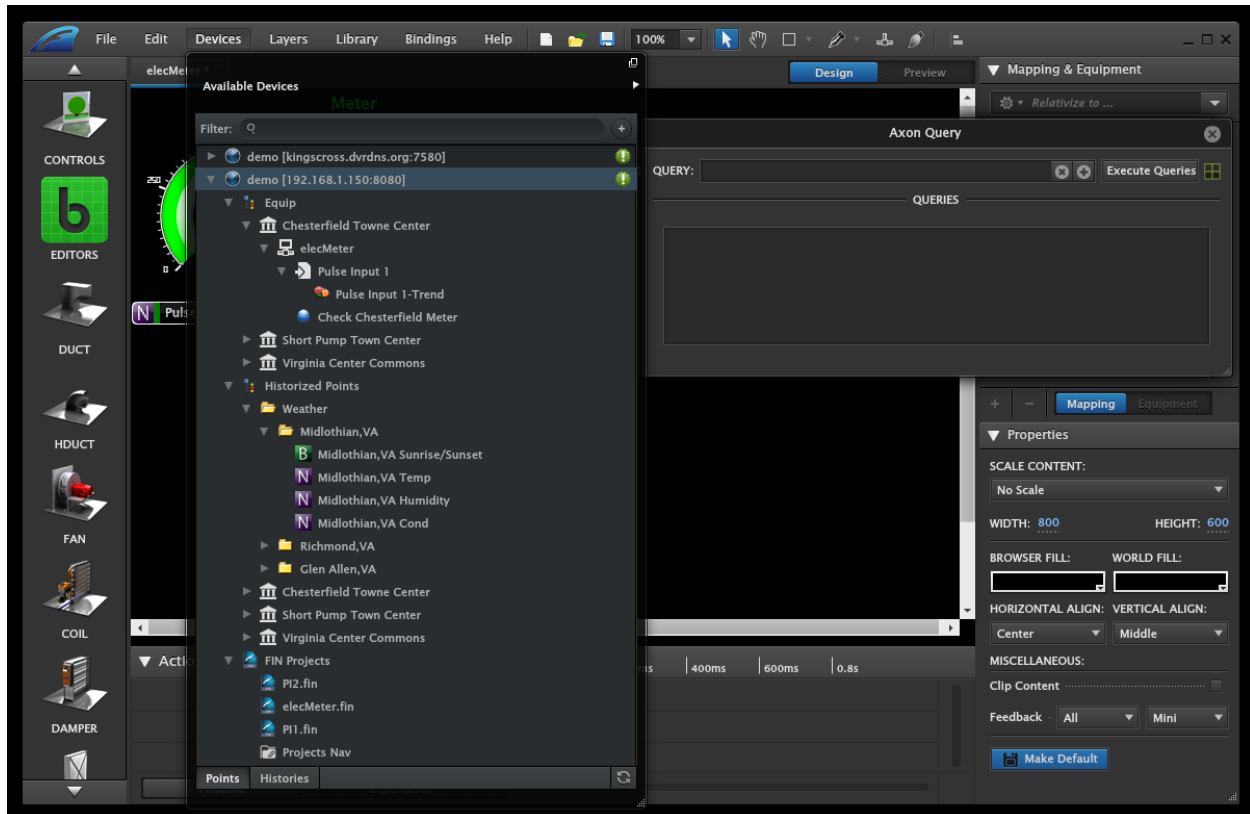
You can also see your FIN projects in the device.



Right click a device to see Axon Query and License and Projects Status.



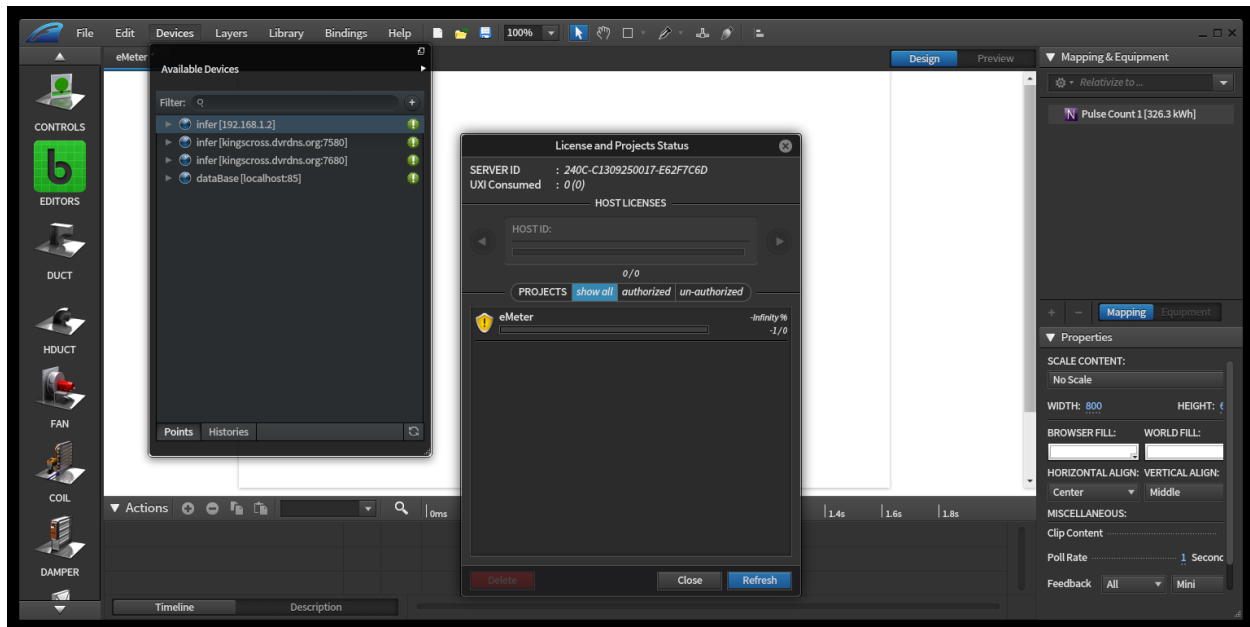
## Axon Query



## License & Projects Status

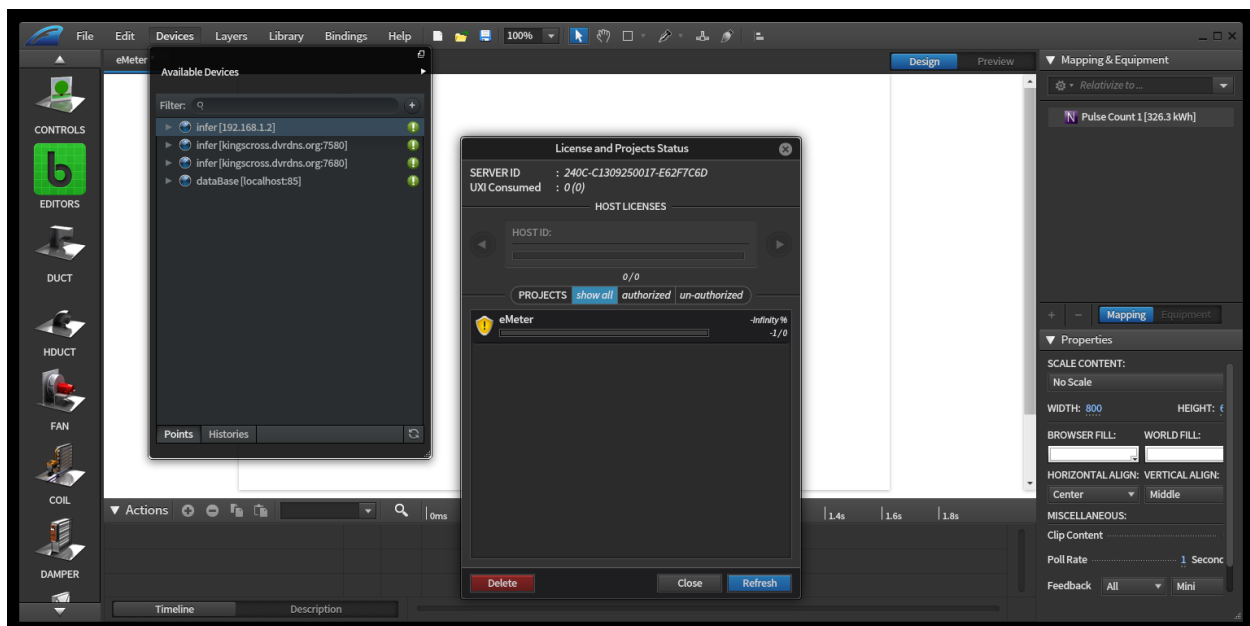
You can check the status of the license in the device.

**Note: Only a valid InferStack license is required.**



## Delete Graphic

**Note:** If there have been significant changes to your graphic, you may need to delete the existing graphic before publishing the changes.



## File – Publish

Use File Publish to send FIN file to your device.



Select FINStack, Location and Graphic on tag:

FIN | Publish

PREVIOUS LOCATION: infer [192.168.1.232]- finstack

FIN HOST: FIN|Stack

SETTINGS

PUBLISH NAME: Over-Write: YES NO FORCE

AdamMeter

LOCATION: Use Relative Paths: YES NO

infer [192.168.1.232]  
infer [192.168.1.201]  
infer [192.168.1.234]  
infer [192.168.1.225]

GRAPHIC ON TAG: siteMeter Graphic On

HOST NAME: finstack://192.168.1.232|infer

☐ ADVANCED

File Type: FIN File Cancel Publish

You may have to select Over-Write Yes or Force to update a file you have already published:

FIN | Publish

PREVIOUS LOCATION: infer [192.168.1.232]- finstack

FIN HOST: FIN|Stack

SETTINGS

PUBLISH NAME: Over-Write: YES NO FORCE

AdamMeter

LOCATION: Use Relative Paths: YES NO

infer [192.168.1.232]  
infer [192.168.1.201]  
infer [192.168.1.234]  
infer [192.168.1.225]

GRAPHIC ON TAG: siteMeter Graphic On

HOST NAME: finstack://192.168.1.232|infer

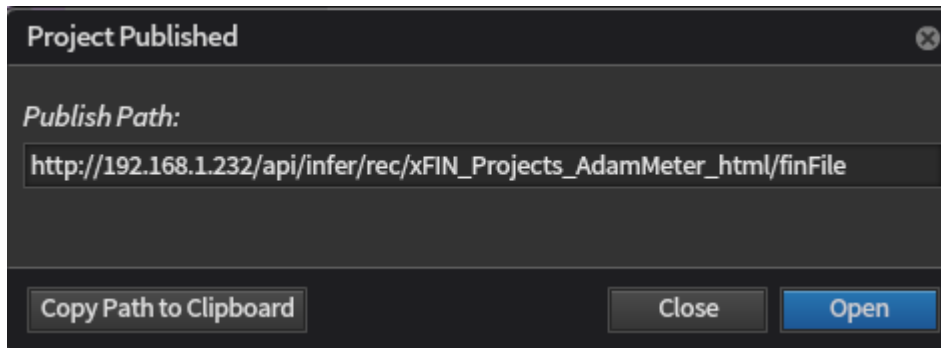
☐ ADVANCED

File Type: FIN File Cancel Publish

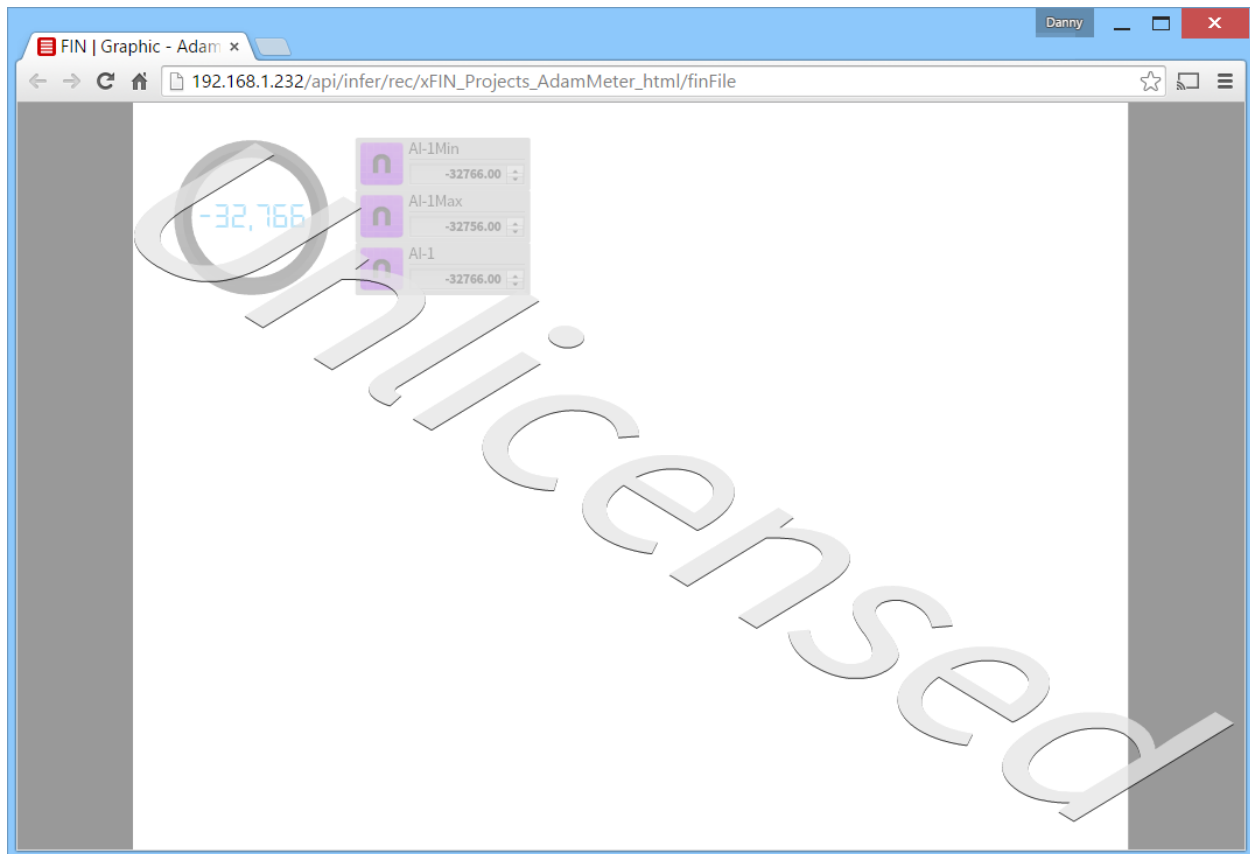
You will then be provided the publish path to open.

**Note:** You may also want to perform a Force when there have been significant changes.

**Note:** If you enable guest access in the User app, FIN Builder publishing may fail to publish your file with “Error deploying project: Error Uploading file”. Delete the guest user in order to publish. You can then Add Guest.



**Note: If you Open the graphic here, you will often see Unlicensed across the graphic. Access from the Graphics app to avoid this.**



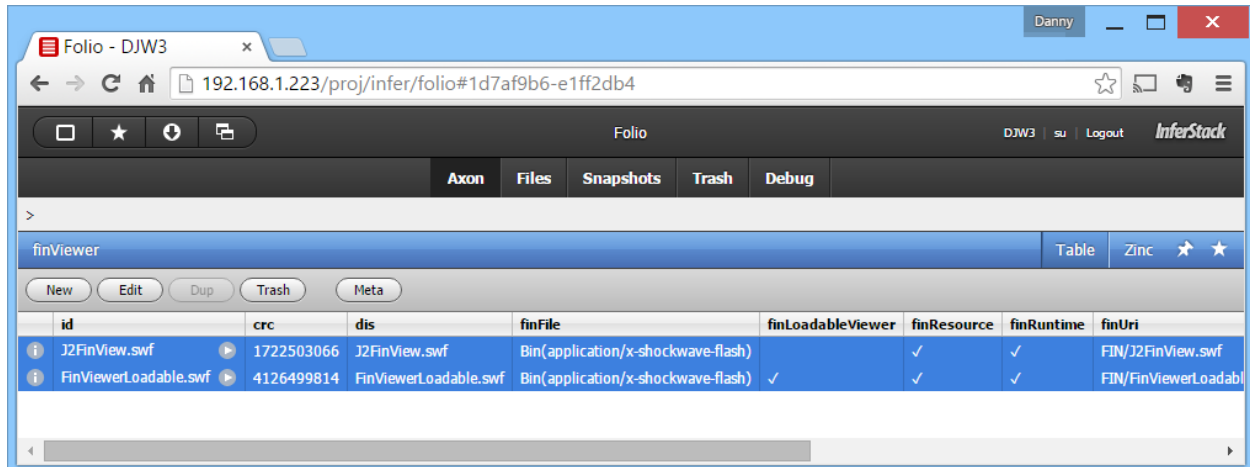
**If you are having problems publishing over 3G, you may need to change the Edit – Preferences – Upload Timeout to 120 seconds.**

## Troubleshooting

If you have trouble viewing your graphics in InferStack after upgrading your software, you may need to republish them with a newer version of FIN Builder. You also may need to delete old projects.



Check to ensure that the FINBuilder Viewer extension is enabled. Go to the Folio app, run finViewer, select the results and press Trash.



Next, Publish using force to update the libraries and Reboot the device using the Host app.

## Reference

The reference information is on your device or server via the Help app or the portal at <http://licensing.intellastar.com/>.