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Engineering Tips & Tricks

No Doubt you've seen these before, but let's cover them again.

Jerome Bergquist

Senior Application System Sales Engineer

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Topics covered

- Wire Sheet Tools
 - Simplification
 - Renaming Slots
 - Sync Tree and Show On Wire Sheet
 - Search Side Bar Linking
- Workbench Customization
 - Custom Pallets
 - New Components and Widgets Bogs
 - Folders, Bookmarks, and Shortcuts
- Engineering
 - Search Side Bar and Batch Editor



Why should we talk about basics?

Even those of us with experience can be missing obvious things.







Wire Sheet Tools

- Multiple Link Marks
- Using the Search Side Bar to Drag and Link
- Sync Tree and Show On Wire Sheet buttons
- Compositing a folder that is on a wire sheet to cleanup the appearance of the logic
- Slot renaming on HTML property sheet



Multiple Link Marks

- In small stations this can be helpful to link a global setpoint to multiple pieces of equipment.
- You can multi select in a wire sheet, search sidebar, or in the nav tree and link to or from as a group.
- Can be data or relation link



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Search Side Bar Drag to Link

- In the web view, using your search sidebar allows for fast linking.
- Can be used for individual or multiple links simultaneously.
- Like the previous method, this can be used for data or relation links.
- Enter your search query and let the tool find what you need.
 - Select the objects and drag onto the wire sheet.
 - Dropping on the left side is going to open the wizard assuming you are making an inbound link, dropping on the right will assume an outbound link.



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Sync Tree in Workbench and Web View

Right click in the nav tree and select 'Sync Tree'. This will open and highlight the location you have open in the nav tree. At the top of the sidebar there is a button for it as well.







In 4.14 a Sync Tree button has been added to the web view nav tree.



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File Edit Search Bookmarks Tools Window Wire Sheet Help

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VA51 Floor1 AHU_01 points



Show on Wire Sheet

In the web view, right click and choose Show On Wire Sheet will open the relevant wire sheet view of an object from the nav tree.

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Views

Actions

Edit Tags

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Compositing Folders

- Compositing a folder containing programming allows you to condense blocks and clean up your wire sheet to make it easier to understand sequences.
- In this example we are going to combine the equipment status and heating and cooling programming into a folder and composite the relevant slots.
- Use discretion when combining and compositing folders.





Compositing Folders - Results



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Slot Renaming Using the HTML Property Sheet

- This is not much of a feature to use at scale, but occasionally it is nice to be able to modify a single slot simply.
- Slot names can be modified in the property sheet when viewed in a browser.
- Allows you to customize or differentiate slot names if you are referencing multiple of the same point type in a program.
- In this example we will change the Display Name slots from the folder compositing example.

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Workbench Customization Tools

- Customizing the installation package.
 - System Home files
 - Defaults
 - Nav tree
 - BQL Queries
 - Options
- Custom Pallets
- New Components bog (adding items to right-click menu)
- New widgets bog
- Nav Tree Folders
- File Chooser wizard bookmarks





Sys Home Files – Default New Files

Customizing the System Home files allows you to customize your install package, including across versions and throughout your organization.

- The defaults folder contains the default versions of new files you create in the right-click menus,
- If you have a consistent format you use for Px files or, Navfiles, etc. you can build them here.





File Edit Search Bookmarks Tools Window Px Viewer Help

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User Home Files – etc Folder

- The etc folder in user home is filled with useful things that will make moving between workbench versions easier.
- A few of the useful files to copy are:
 - Navtree.xml will bring your nav tree into a new version of workbench as you update or move PCs.
 - mruOptions.xml stores the last 10 ords, facets, etc.
 - bqlQueriesOptions will bring saved BQL queries from the query builder

C:\Users\(user)\(Niagara version)\(brand)\etc\options



Custom Pallets

- Custom pallets allow you package your commonly used programs and tools.
- Like all Sys Home customizations, this will carry with the installation package, so it can be used as an organization standard.



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New Components Bog and New Widgets Bog

- New Component Bogs allow you to add preconfigured components such as alarm or history extensions, or commonly used graphics components through the right click menu.
- New Widget Bog allows you to add preconfigured Px widgets, such as bound labels.



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File Edit Search Bookmarks Tools Window Wire Sheet Help

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Nav Tree Organization

- For a while now we've been able to reorder the Nav Tree and give it some order
- Then –
- We could set display names to make recognition a bit easier yet
- Now -
- We can create folders in the Nav Tree properly organize sites.



Nav Trees – Formerly Unorganized





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- Nav

My Local Host

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- 10.10.10.12 (LabJACE2Sec)
- 10.10.10.13 (LabJACE3Sec)
- 108.166.208.108 (ReelBigFish)
- 124.229.20.236 (LessThanJake)
- 13.103.249.146 (StreetLightManifesto)

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Nav Tree Folders

- Nav Tree folders can now be used at the connection level, not only within each connection.
- Allows the engineer to group connections and collapse them when not needed.
 - Clean up your view and make it simpler to navigate to your various connections
 - Protect privacy and security of your connections by hiding unrelated connections if you're sharing your screen.



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File Chooser Wizard Bookmarks

- Set bookmarks for frequently used folders and file location to make selection navigation quicker.
- Note: Bookmarks do not work for modules.
- Using the clock button on the file chooser wizard will allow you to navigate to recent modules.



🏰 Niagara Workbench



Current View Bookmarks

 Adding current view bookmarks enables you to return to the where you're working if you need to shutdown workbench or otherwise navigate away.



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Q Quick Search

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Go Into Function

- The Go Into function allows you to view more specific portions of the Nav tree, minimizing scrolling through.
- The dropdown menu in the Nav sidebar is the Go Into list
- The box with the X to the left of the Go Into menu will clear the Go Into bookmark that you are in from the list.



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Platform	8	objects
Name	Description	(D
Application Director	Control applications and access console output	
O Certificate Management	Manage X.509 certificates and host exemptions	
4 Lexicon Installer	Install lexicons to support additional languages	
License Manager	Manage licenses and certificates	
S Platform Administration	Update the platform daemon's port or credentials, or set its date and time	
Station Copier	Transfer stations to and from the remote host	
TCP/IP Configuration	Manage the host's TCP/IP settings	
Remote File System	The remote host's file system	

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Nav Container View •

Managing Bookmarks

- If you're using bookmarks or go into place holders for individual projects and would like to delete them, upon completion, use the Manage Bookmarks tool.
- Bookmarks and go into placeholders can also be created in the Bookmark Manager as well.



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Q Quick Search

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Engineering Tool Tip

• Using search side bar to drag items into batch editor





Search Bar for Batch Editor

- Allows for a search of the desired job step and click-and-drag selection into Batch Editor
- This can be used for many tasks, in this example we are going to remove a dash from the naming convention of points.





🎊 Niagara Workbench

File Edit Search Bookmarks Tools Window Batch Editor Help

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In Case we have time

• Boolean to Enum Conversion, hey how 'bout that?





Boolean to Enum Conversions

- The link between a Boolean point to an Enum point can be used as the conversion by opening the properties of the link.
- A simple way to convert boolean points to enumerations without adding another block onto the wire sheet.
- Conversion links have been in Workbench since AX 3.6

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In16	- {null}	In16	- {null]



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