SysQue v7.1

This document provides information about new features and modifications in the latest release of Trimble® SysQue®. More detailed information can be found in the online help system here.

Introduction

These release notes describe the features and enhancements that are new for the major installer release dated 2019-12-06. For additional assistance, please email mepsupport@trimble.com or call 1-800-234-3758.

To download the latest release, log into SysQue support forum here.

Compatibility

Autodesk software

This release of SysQue is compatible with the current releases of Revit versions 2017, 2018, 2019, **and 2020**. Please note, support for Revit 2017 will be sunset at the end of this year.

**Please also ensure that you have Dynamo v1.3 or higher installed if using Dynamo. SysQue is not compatible with Dynamo versions lower than v1.3.

Windows

SysQue is compatible with Microsoft® Windows® versions 7, 8, and 10.

Backwards compatibility

Digital models produced in Revit & SysQue cannot be saved to or opened in prior year versions.
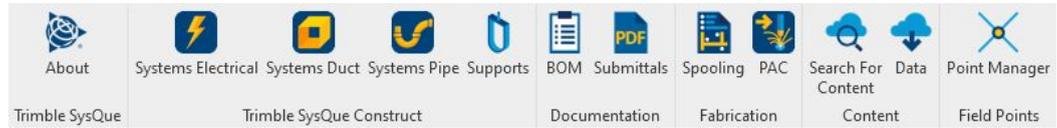
New Features, Enhancements, and Updates

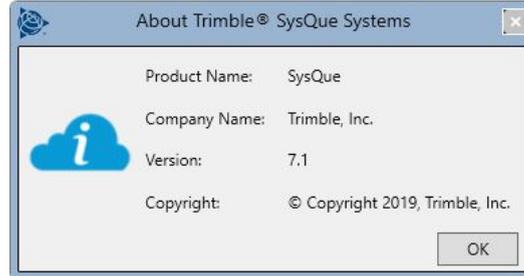|	
Summary of Improvements & Business Value	This release contains improvements to the **Duct**, **Electrical**, **Pipe**, **Supports**, and **PAC** applications in SysQue. ● The Pipe & Electrical application received the same functionality added to the Duct application from previous 7.0 release. ● The new Supports "Placements Option" has shown to drastically improve the performance of placing hangers. As a result of these changes, SysQue is faster, more reliable, more feature rich, and easier to use across multiple areas of the application.

Version: 7.1
Date: December 2019

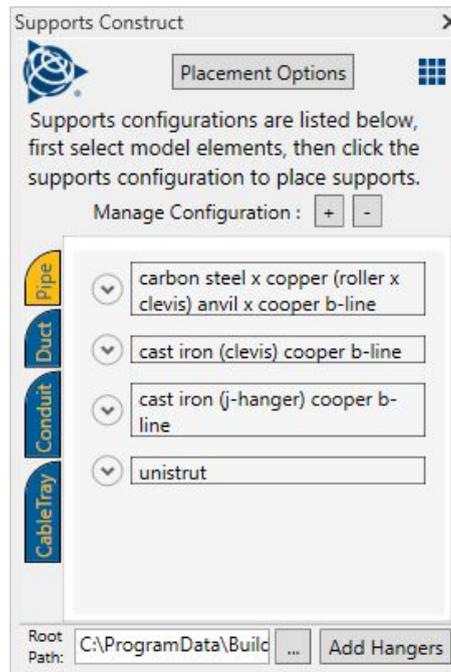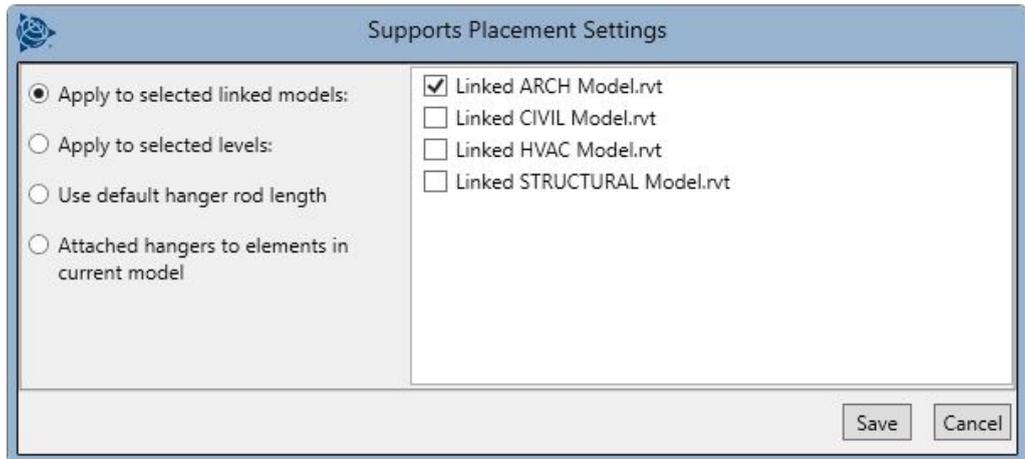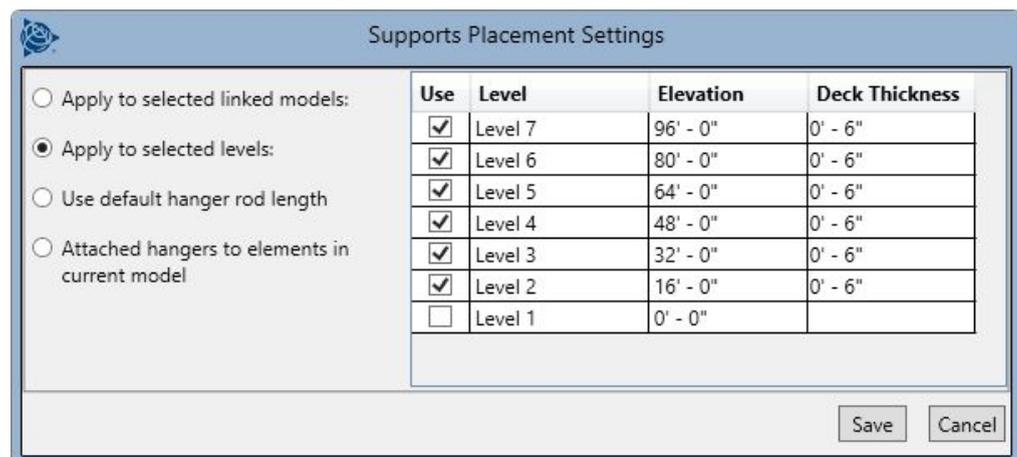|	
SysQue Ribbon	The following changes have been made to the SysQue Ribbon: ● The "About" icon has been added. Selecting this icon will notify the user of the current SysQue versions. (ie: 7.1) ● The "Point Manager" has been relocated from the Supports application "Menu" to the SysQue Ribbon. This is to eliminate clicks and make it a more easily accessible feature
Supports	The following changes have been made to the Supports Application: ● Refactoring of the Supports code to improve the performance of placing hangers. ● The "Point Manager" has been relocated from the Supports application "Menu" to the SysQue Ribbon. This is to eliminate clicks and make it a more easily accessible feature ● "Placement Options" has been added to the Supports Interface. This functionality is designed to provide the user with multiple options of how the hanger rod lengths extend to meet the user's desired length for prefabrication. During Beta Testing, this new functionality has shown to drastically improve the performance.

- Upon selecting the "Placement Options" icon, the user is prompted with 4 new options when placing hangers. When placing hangers, all existing hanger placement commands will follow the settings of the "Placement Options".

- Option #1: "Apply to Selected Linked Models"
  - This option allows the end user to select which "Linked Revit" model should the hangers attach to.
  - Previously the hanger application was looking at all linked files.
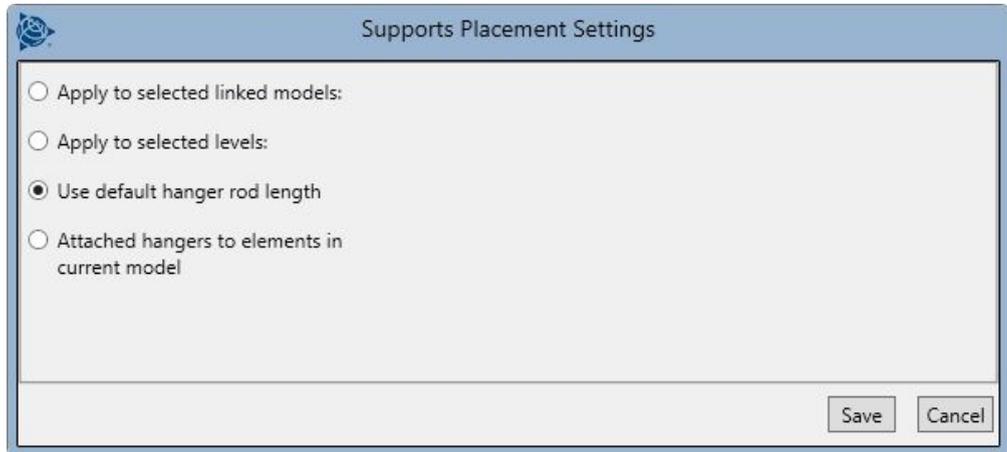

- Option #2: "**Apply to Selected Levels**"
  - This option allows the end user to select which level in the current Revit project should the hangers attach to. Preferred Method for Speed.
  - By default, the hangers will attached directly to the elevation of the Revit Level. The user has the option to provide the "Deck Thickness". This will subtract additional length below the level to account for the thickness of the floor.
  - During Beta Testing, our users provide the following feedback stating:
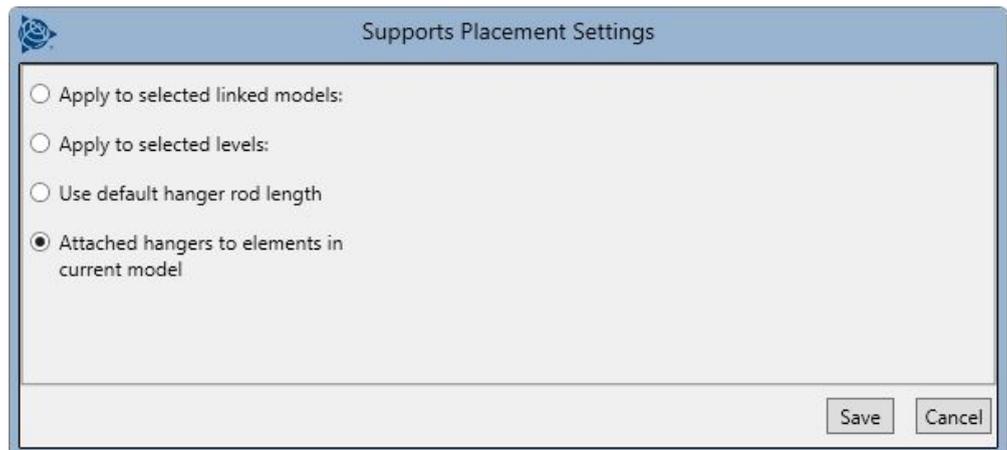   *"I wanted to thank you for giving us the option to snap to levels and apply a deck thickness. This has cut my hanger workflow time considerably. My team will always be using either this option or the default hanger length option. I am so happy that we won't be waiting on it to process to a linked model any longer. While good in theory that wasn't really adding any benefit to us. We just need to be able to set the hanger rod to a specific elevation…and now we can!"*

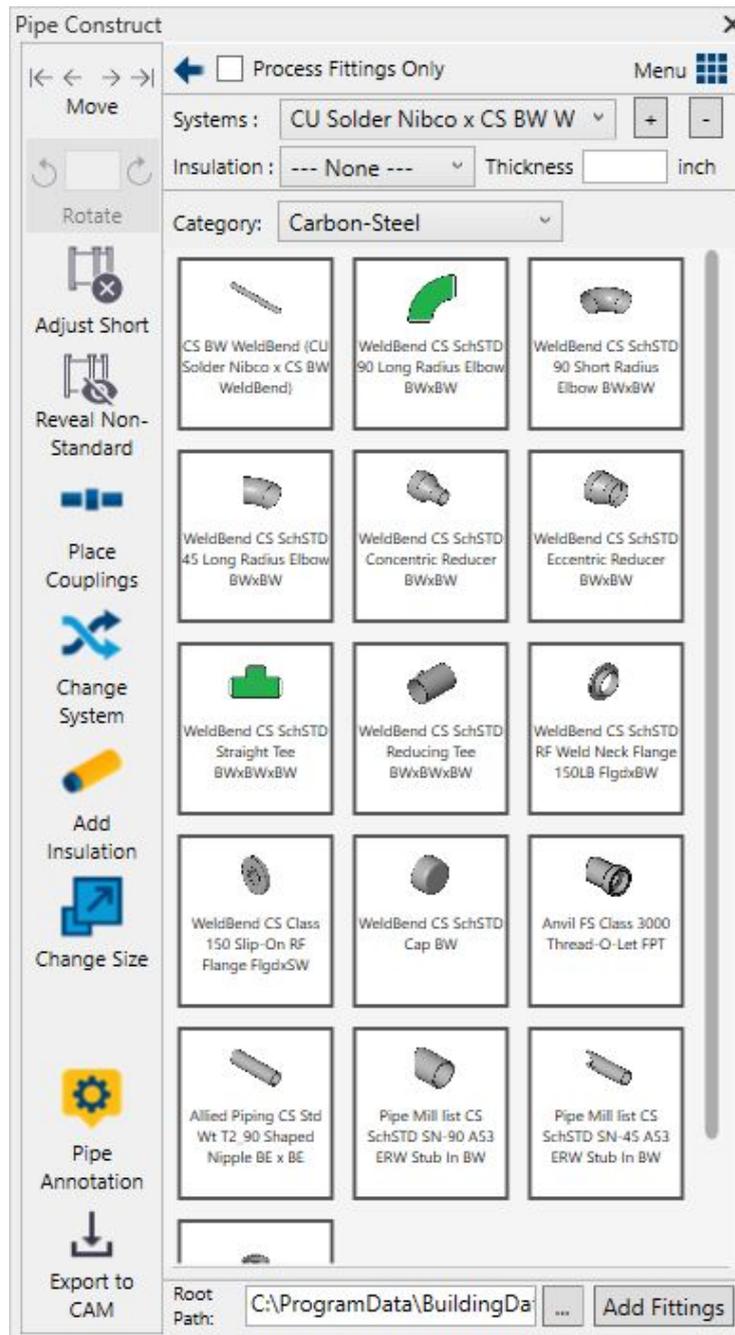|	

BOM	● Option #3: "**Use Default Hanger Rod Length**"
	    ○ This is the fast performing option, designed for the end user who just wants to place hangers fast and export points
	    ○ When this option is selected, the Hangers will be set to the default rod length that is set within the "Edit" hanger menu.
	
	Supports Placement Settings
	○ Apply to selected linked models:
	○ Apply to selected levels:
	◉ Use default hanger rod length
	○ Attached hangers to elements in current model
	
	                                                Save Cancel
	
	● Option #4: "**Attach Hangers to Elements in Current Model**"
	    ○ This option is the original SysQue support functionality in which it looks for any model elements to attach hanger to.
	    ○ Speed improvements have been made within refactoring of code.
	
	Supports Placement Settings
	○ Apply to selected linked models:
	○ Apply to selected levels:
	○ Use default hanger rod length
	◉ Attached hangers to elements in current model
	
	                                                Save Cancel

BOM	No new changes to the BOM application.
Submittals	No new changes to the Submittals application.

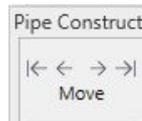| Pipe	The following improvements have been made to the Pipe application:
	● A new menu column has been created for easy access to new & existing Pipe commands. The Pipe pallet has been expanded upon with new menu options to enable accessibility on existing menu options. Below is a screenshot of the new Pipe pallet.

● The **Category** tabs have been relocated above Systems and are now a dropdown menu.

New tools and commands have been added to the Pipe pallet.

- **Move Short Pipes Left or Right**
  - Select the short piece a long run to enable the command.
  - The inner 2 arrows enables a User to move a short piece of Pipe either to the left or to the right along its run.
  - The outer 2 arrows are the "Move to End". This feature enables a User to move a short piece of Pipe in a run either to the left end or right end of its run.
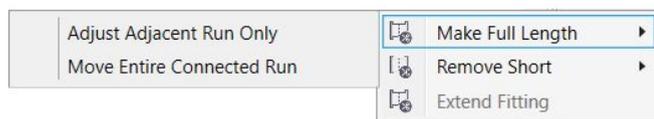

- **Rotate Elements**
  - This is an existing SysQue Pipe command that has been relocated from the bottom of the Piping Pallette. Thus making it more accessible to the end user.

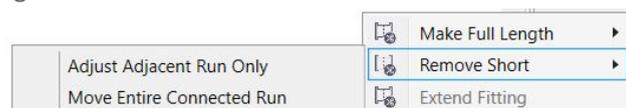The **Adjust Short** menu has been expanded to include the following options:

- **Make Full Length** for a short piece of Pipe includes two options:
  - **Adjust Adjacent Run Only**, which, when selected, adjusts the length of the run containing the short and between fittings only, or
  - **Move Entire Connected Run,** which, when selected, will make the short piece full length and leave all other pieces in its connected run as-is, thereby moving the entire connected run.
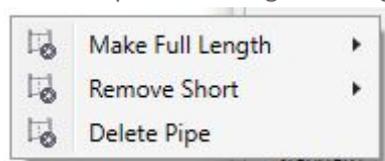

- **Remove Short** for a short piece of Duct now includes two options:
  - **Adjust Adjacent Run Only**, which, when selected, adjusts the length of the run containing the short and between fittings only, or
  - **Move Entire Connected Run,** which, when selected, will remove the short piece and leave all other pieces in its connected run as-is, thereby moving the entire connected run.

- **Delete Pipe** allows the user to select a pipe and delete it from a run:
  - Upon activating of the command, user can then select a pipe and delete it from a run. The side of the pipe determines the direction that the nearest fittings will move.
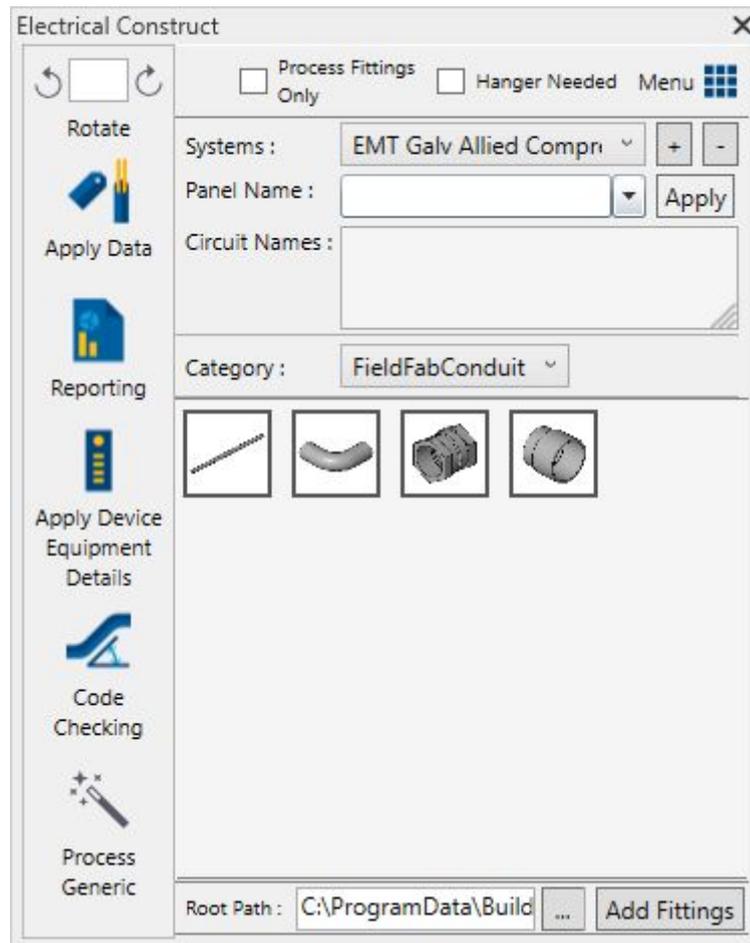 - This is designed to improve "Fitting to Fitting" workflows.

	● A new **Show Non-Standard Lengths** command has been added to the Pipe pallet. When clicked, this command creates a Filter in the User's Revit project instance automatically and shows all Pipe pieces in the User's current view that are non-standard length. When clicked again, the Filter is disabled (but not removed). The following commands have been relocated from the existing SyQue menu window to the new Pipe Palette Column. ● Place Couplings ● Change System ● Add Insulation ● Change Size ● Pipe Annotation ● Export to CAM
Duct	The following improvements have been made to the Duct application: ● With the new 7.0"Auto-Process" in the Duct application, to insure the "Gap" between Straights and Fittings are correct, we're currently processing directly after each "Nudge". The user was then required to reselect the element(s) every time after auto-process is completed. 　○ In this release, we have provide the user the ability to pause the "Auto-Process" during the nudge command. 　○ When utilize the "Nudge" command, the user can hold the "Ctrl & Alt" keys to pause the "Auto-process". 　○ Elements selected will stay selected after any "Auto-Process". **Content Development Additions** ● New connectivity for Spun Strand ● Round Access Doors now match Main Duct Radius

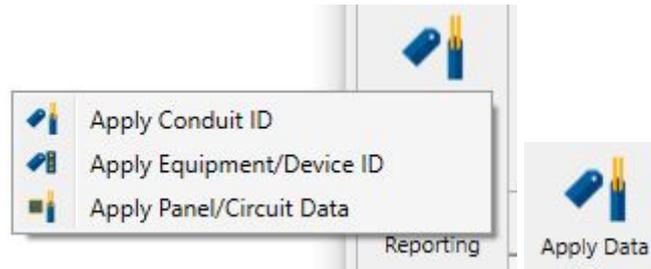|	
Electrical	The following improvements have been made to the Pipe application: ● A new menu column has been created for easy access to new & existing Electrical commands. The Electrical pallet has been expanded upon with new menu options to enable accessibility on existing menu options. Below is a screenshot of the new Pipe pallet. ● The **Category** tabs have been relocated above Systems and are now a dropdown menu. ● **Rotate Elements** ○ This is an existing SysQue Electrical command that has been relocated from the bottom of the Electrical Pallette. Thus making it more accessible to the end user.

The following commands have been relocated from the existing SyQue menu window to the new Electrical Palette Column. Some commands have been grouped together.
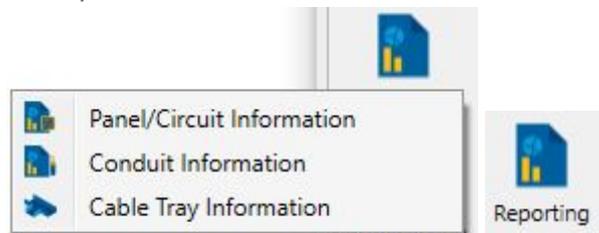
- **Apply Data**
  - Apply Conduit ID
  - Apply equipment/Device ID
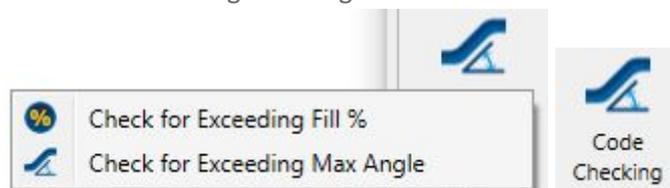 - Apply Panel/Circuit Data

- **Reporting**
  - Panel/Circuit Information
  - Conduit Information
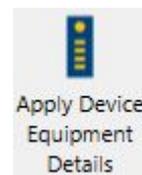 - Cable Tray Information

- **Code Checking**
  - Check for Exceeding Fill %
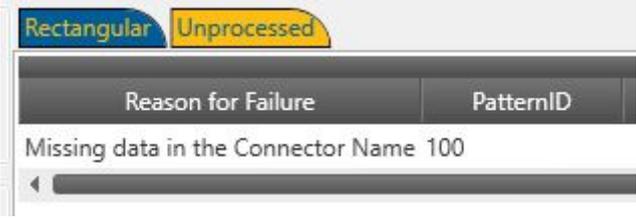 - Check for Exceeding Max Angle

- **Apply Device Equipment Details**
  - Existing command that is relocated to the Electrical Column

- **Process Generic**. The purpose of this command is to update all generic Conduits in the User's model and that were initially drawn outside of SysQue.

PAC	The following improvements have been made to the PAC application:
	● When exporting to Trimble Fabshop from SysQue PAC, improvements have been made to ducts straights that contain holes.
	Failed Fitting Notification
	Within the PAC interface, if a fitting has failed, we're provide exception handling for failed fittings. If a fitting fails, it's then displayed on the "Unprocessed" Tab. This tab list why these fittings are failing so the end-user can correct the issue.
	Reason for parts to fail are caused by missing data within the fitting parameters
	● Missing Data in the:
	○ Specification Name Parameter
	○ Connector Name Parameter
	○ Gauge Parameter
	○ Connector Names
	Screenshot below of the "Reason for Failure" column.
Spooling	● No new changes to the Spooling application. See BUG Fixes.

Bug Fixes:

● SPOOLING: The undo command was causing Spools to be deleted from the list.
  o After a user has generated spool sheets, then moves an element within the spool but then hits "Undo". This was causing the spool to be deleted from the list.
● Existing tags don't get deleted when "Processing Generics". This is for Duct, Pipe & Electrical

Legal Notices

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Release Notice

This is the December 2019 release of the Release Notes. It applies to version 7.1 of the SysQue software.

It pertains to the release noted elsewhere in this document. The topics within this document are subject to change without notice. Screenshots included may not be exactly as in the software application.