



What's New in ThingWorx Manufacturing Apps

8.2

Contents

What's New in the Controls Advisor App.....	3
New Status Field	4
What's New in the Production Advisor App	5
Enhanced Equipment Hierarchy Display.....	6
What's New in the Asset Advisor App.....	7
Improved Performance and Navigation.....	8
What's New with App Customization	9
Support for ThingWorx 8.2.....	10
Entities are Easier to Find in ThingWorx Composer	10
Custom Subtypes	11
Equipment Structure Relationship Rules Can Be Customized	11
Customizing Tab Pages in Configuration and Setup.....	12
New NI TestStand Connector.....	12
Enhanced Tag Picker Common Component.....	12
Anomaly Detection Configuration.....	13
What's New in Configuration and Setup	14
Centralized App Configuration	15
Enhanced Equipment Configuration	15
Release Notes	17
Known Issues	18

1

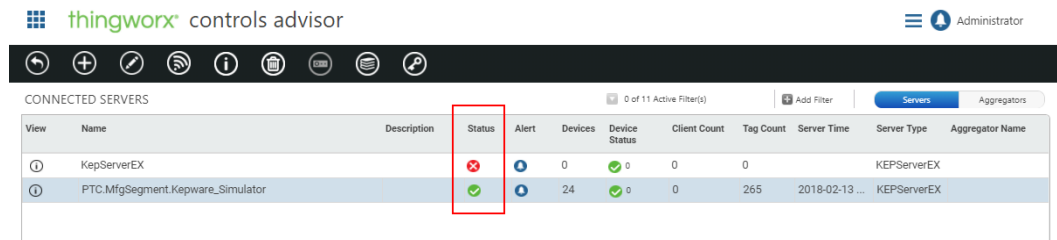
What's New in the Controls Advisor App

New Status Field	4
------------------------	---

New Status Field

Benefit

In Controls Advisor, the new **Status** field provides simplified status information to the Controls Engineer for the server and its connection status.



thingworx controls advisor Administrator

CONNECTED SERVERS 0 of 11 Active Filter(s) Add Filter Servers Aggregators

View	Name	Description	Status	Alert	Devices	Device Status	Client Count	Tag Count	Server Time	Server Type	Aggregator Name
ⓘ	KepServerEX		✖	🔔	0	🟢 0	0	0		KEPServerEX	
ⓘ	PTC.MfgSegment.Kepware_Simulator		✔	🔔	24	🟢 0	0	265	2018-02-13 ...	KEPServerEX	

Additional Details

- The **Status** field merges information previously displayed in separate **Connection Status** and **Server Status** fields.
- For more information, see “Controls Advisor” in the *ThingWorx Manufacturing Apps Setup and Configuration Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

2

What's New in the Production Advisor App

Enhanced Equipment Hierarchy Display	6
--	---

Enhanced Equipment Hierarchy Display

Benefit

The Production Advisor now displays your connected production equipment hierarchy in a tree structure, including sites, lines, and assets.

Additional Details

For more information, see “Production Advisor” in the *ThingWorx Manufacturing Apps Setup and Configuration Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

3

What's New in the Asset Advisor App

Improved Performance and Navigation	8
---	---

Improved Performance and Navigation

Benefit

The Asset Advisor includes performance and navigation improvements.

Additional Details

For more information, see “Asset Advisor” in the *ThingWorx Manufacturing Apps Setup and Configuration Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

4

What's New with App Customization

Support for ThingWorx 8.2	10
Entities are Easier to Find in ThingWorx Composer.....	10
Custom Subtypes	11
Equipment Structure Relationship Rules Can Be Customized	11
Customizing Tab Pages in Configuration and Setup	12
New NI TestStand Connector	12
Enhanced Tag Picker Common Component	12
Anomaly Detection Configuration.....	13

Support for ThingWorx 8.2

Benefit

ThingWorx Manufacturing Apps supports the ThingWorx 8.2 release.

Additional Details

For more information, see the ThingWorx Help Center, available at the following URL: https://support.ptc.com/help/thingworx_hc/thingworx_8_hc/

Entities are Easier to Find in ThingWorx Composer

Benefit

Enhanced tags and descriptions make finding entities, such as things and mashups, easier to find in ThingWorx Composer, improving the app customization experience.

Additional Details

- Entities delivered with ThingWorx Manufacturing Apps use tags and descriptions to help you more easily find each entity in ThingWorx Composer. Filter by tag to narrow down the list of available entities, then review the descriptions to find a particular entity.
- Tags identify the entity type and where the entity is used. An entity can have multiple tags, as needed.
- An entity's **Name** property is used as the identifier for the entity, and must be unique and immutable. The **Description** property allows more flexibility in providing readable and meaningful information to help identify an entity and convey its function.
- For more information, see “Using Tags and Descriptions to Find Entities” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Custom Subtypes

Benefit

Custom subtypes allow you to create custom types with pre-defined properties to suit your business needs.

Additional Details

- You can create custom subtypes of the default site, line, and asset types. Once created, custom subtypes are displayed throughout ThingWorx Manufacturing Apps, in the same manner as the default types are displayed.
- Certain launch points can be defined to launch custom mashups or a custom menu for individual custom subtypes.
- The list of types displayed when creating new equipment can be customized to show only certain types and subtypes.
- For more information, see “Adding Custom Subtypes” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Equipment Structure Relationship Rules Can Be Customized

Benefit

The equipment structure relationship rules determine which types of equipment can be added as related child equipment to another piece of equipment. The initial rules provided by ThingWorx Manufacturing Apps can be customized to suit your business needs.

Additional Details

You can define new equipment relationship rules, including rules for custom subtypes.

For more information, see “Customizing Equipment Structure Relationship Rules” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Customizing Tab Pages in Configuration and Setup

Benefit

The tabs displayed in the **Configuration and Setup** tile can be customized by adding and removing tab pages, or by modifying the existing tab pages.

Additional Details

For more information, see “Customizing Tab Pages in the Configuration and Setup Tile” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

New NI TestStand Connector

Benefit

The NI TestStand Connector allows the results of automated validation tests run in the NI TestStand tool to display in ThingWorx.

Additional Details

For more information, see “Implementing the NI TestStand Connector” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Enhanced Tag Picker Common Component

Benefit

The tag picker common component can be customized to browse data from external connected systems such as NI TestStand, as well as custom connectors. The last user selection in the tag picker is also preserved within a single session.

Additional Details

For more information, see “Customizing the Tag Picker Common Component” in the *ThingWorx Manufacturing and Service Apps Customization Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Anomaly Detection Configuration

Benefit

The anomaly detection functionality can be enabled and configured through the ThingWorx platform.

Additional Details

Anomaly information, such as status, duration, and calibration, has been removed from the Asset Advisor. This information can be added to your system as a customization.

For more information, see “Anomaly Detection” in the ThingWorx Help Center, available at the following URL: https://support.ptc.com/help/thingworx_hc/thingworx_8_hc/.

5

What's New in Configuration and Setup

Centralized App Configuration.....	15
Enhanced Equipment Configuration.....	15

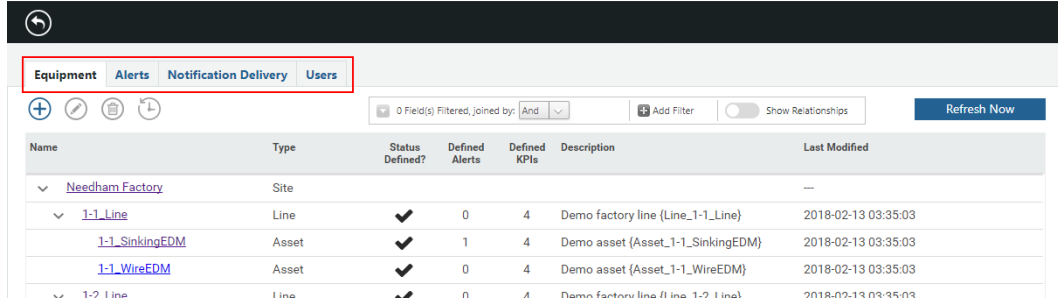
Centralized App Configuration

Benefit

Configuration activities are now centralized under the **Configuration and Setup** tile, providing a more intuitive app configuration experience.

 thingworx configuration and setup

 Administrator



Name	Type	Status Defined?	Defined Alerts	Defined KPIs	Description	Last Modified
Needham Factory	Site					---
1-1 Line	Line	✓	0	4	Demo factory line (Line_1-1_Line)	2018-02-13 03:35:03
1-1_SinkingEDM	Asset	✓	1	4	Demo asset (Asset_1-1_SinkingEDM)	2018-02-13 03:35:03
1-1_WireEDM	Asset	✓	0	4	Demo asset (Asset_1-1_WireEDM)	2018-02-13 03:35:03
1-2 Line	Line	✓	0	4	Demo factory line (Line_1-2_Line)	2018-02-13 03:35:03

Additional Details

For more information, see “Configuration and Setup” in the *ThingWorx Manufacturing Apps Setup and Configuration Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

Enhanced Equipment Configuration

Benefit

The **Equipment** tab provides a streamlined flow for creating and configuring new equipment.

Additional Details

- Equipment is displayed in a tree structure, showing the relationships between your pieces of equipment.
- Indicators provide a quick view of the completeness of the configuration for each piece of equipment, whether statuses have been defined, and the number of alerts and KPIs defined.
- If you select a piece of equipment on the **Equipment** tab before creating new

equipment, the new equipment is created under the selected equipment, and the **Create Equipment** window automatically filters the available equipment types to allowable child types for the selected equipment.

- After creating a new piece of equipment, you are automatically taken to the equipment configuration pages:
 - **General Information**—Add an image for the piece of equipment, and general information for the equipment, such as description, model and serial number, and location. Set the **Planned Operation Time** and **KPI Calculation Period**.
 - **Equipment Structure**—Add related child equipment to the current piece of equipment, and view the current equipment’s position in the equipment structure.
 - **Status**—Define the possible statuses for the equipment.
 - **Additional Properties**—View and add additional properties for the equipment. For each property, easily see the type of property (**Static** or **Tag**), its data type, and whether it is currently used in trends, alerts, or expressions. For tag-based properties, view the name of the associated tag. Multiple tag-based properties can be created at one time.
 - **Performance Metrics**—Define indicator thresholds for key performance indicators (KPIs) and parameters for performance calculations.
 - **Alerts**—Add, edit, and delete alerts for the individual piece of equipment.

For more information, see “Setting Up Your Equipment” in the *ThingWorx Manufacturing Apps Setup and Configuration Guide*. This guide can be found on the [PTC Reference Documents](#) website under the following product category: ThingWorx Manufacturing Apps Family.

6

Release Notes

The following support cases are resolved in the ThingWorx Manufacturing Apps 8.2 release.

Case Number	Description
13890265	The Statistics For field is no longer present on the Asset Advisor Monitored Properties page, as a result of the removal of anomaly detection information from the Asset Advisor. Anomaly detection is still available through the ThingWorx platform.
13907039	The tag picker has been enhanced to allow selection of properties on an asset or line, as well as tags from other connected systems. For more information, see “Customizing the Tag Picker Common Component” in the <i>ThingWorx Manufacturing and Service Apps Customization Guide</i> .
13909826	Display issue with the Asset Advisor Status History graph has been addressed.
13925642	An additional notification handler can be created, integrating a delivery system other than email or text (SMS), and not restricting alert notification assignment to users configured for email or text delivery. For more information, see “Adding a Custom Notification Handler” in the <i>ThingWorx Manufacturing and Service Apps Customization Guide</i> .
13988998	KPI calculation issue in Production Advisor for values derived from tags has been addressed.

7

Known Issues

The following table presents known issues and their solutions for the ThingWorx Manufacturing Apps 8.2 release.

Known Issue	Solution
If you have configured an asset for remote access and control, and have upgraded ThingWorx Manufacturing Apps from 8.1.2, the asset image and vncPassword property value are missing.	After completing the upgrade: <ul style="list-style-type: none"><li data-bbox="708 978 1287 1188">• Upload the asset image in Configuration and Setup ► Equipment ► General Information. For more information, see “Configuration and Setup” in the <i>ThingWorx Manufacturing Apps Setup and Configuration Guide</i>.<li data-bbox="708 1199 1287 1398">• Set the vncPassword property on the asset in ThingWorx Composer. For more information, see “Remote Access and Control” in the <i>ThingWorx Manufacturing Apps Setup and Configuration Guide</i>.

Known Issue	Solution
<p>When downloading a file whose name contains certain malicious characters—for example, '(' or ')'—using the File Transfer action in Asset Advisor, the application redirects you to a web page that states “This site can’t be reached”.</p>	<p>Rename the file and remove any malicious characters.</p> <p>For more detailed documentation on overriding the default system behavior for FileRespositoryDownloader, see http://support.ptc.com/help/thingworx_hc/thingworx_8_hc/ThingWorx/Help/Getting_Started/InstallingandUpgrading/ConfiguringESAPIValidatorSettings.html</p>
<p>After clicking the Launch Remote Access button on an asset detail page to open a remote session, if you attempt to refresh the browser window, a “page not found” message appears giving the impression that the connection has been lost. (Chrome only)</p>	<p>Return to the asset detail page, click the Launch Remote Access button again, and avoid refreshing the browser window during the remote session with the asset.</p>

Copyright © 2018 PTC Inc. and/or Its Subsidiary Companies. All Rights Reserved.

User and training guides and related documentation from PTC Inc. and its subsidiary companies (collectively "PTC") are subject to the copyright laws of the United States and other countries and are provided under a license agreement that restricts copying, disclosure, and use of such documentation. PTC hereby grants to the licensed software user the right to make copies in printed form of this documentation if provided on software media, but only for internal/personal use and in accordance with the license agreement under which the applicable software is licensed. Any copy made shall include the PTC copyright notice and any other proprietary notice provided by PTC. Training materials may not be copied without the express written consent of PTC. This documentation may not be disclosed, transferred, modified, or reduced to any form, including electronic media, or transmitted or made publicly available by any means without the prior written consent of PTC and no authorization is granted to make copies for such purposes. Information described herein is furnished for general information only, is subject to change without notice, and should not be construed as a warranty or commitment by PTC. PTC assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

The software described in this document is provided under written license agreement, contains valuable trade secrets and proprietary information, and is protected by the copyright laws of the United States and other countries. It may not be copied or distributed in any form or medium, disclosed to third parties, or used in any manner not provided for in the software licenses agreement except with written prior approval from PTC.

UNAUTHORIZED USE OF SOFTWARE OR ITS DOCUMENTATION CAN RESULT IN CIVIL DAMAGES AND CRIMINAL PROSECUTION.

PTC regards software piracy as the crime it is, and we view offenders accordingly. We do not tolerate the piracy of PTC software products, and we pursue (both civilly and criminally) those who do so using all legal means available, including public and private surveillance resources. As part of these efforts, PTC uses data monitoring and scouring technologies to obtain and transmit data on users of illegal copies of our software. This data collection is not performed on users of legally licensed software from PTC and its authorized distributors. If you are using an illegal copy of our software and do not consent to the collection and transmission of such data (including to the United States), cease using the illegal version, and contact PTC to obtain a legally licensed copy.

Important Copyright, Trademark, Patent, and Licensing Information: See the About Box, or copyright notice, of your PTC software.

UNITED STATES GOVERNMENT RIGHTS

PTC software products and software documentation are "commercial items" as that term is defined at 48 C.F.R. 2.101. Pursuant to Federal Acquisition Regulation (FAR) 12.212 (a)-(b) (Computer Software) (MAY 2014) for civilian agencies or the Defense Federal Acquisition Regulation Supplement (DFARS) at 227.7202-1(a) (Policy) and 227.7202-3 (a) (Rights in commercial computer software or commercial computer software documentation) (FEB 2014) for the Department of Defense, PTC software products and software documentation are provided to the U.S. Government under the PTC commercial license agreement. Use, duplication or disclosure by the U.S. Government is subject solely to the terms and conditions set forth in the applicable PTC software license agreement.

PTC Inc., 140 Kendrick Street, Needham, MA 02494 USA