

Release Notes

The following table lists new features and enhancements for PTC Windchill Quality Solutions 10.2. In addition to providing brief descriptions, it supplies links or references to where you can find more comprehensive coverage where applicable. You can download any of the guides referenced from the [Reference Documents](#) area on the PTC website.

Important! Because some changes require earlier files to be converted, see “Conversion Notes” in the help for the desktop application for information specific to converting from a previous version to the current version.

Area	Feature/ Function	Description	Limitations
Administrative	API enhancements	Use newly added API functions for downloading, uploading, and deleting attachments. You can also now specify parameter values for filters and use API functions with FTA tables. Version M020 extends filter support for the CreateExportXML function to the System Tree Items table and FMEA Tree Items table. For more information, see the <i>PTC Windchill Quality Solutions Data Engine API Guide</i> .	Enterprise Edition only
	Attachments - chunk size	Version M020 provides for specifying the chunk size for attachments in the <i>appsettings.config file</i> . Increasing the chunk size can improve performance on high latency networks.	Enterprise Edition only
	Attachments - blocked file types	Prevent files of certain types from being uploaded to or downloaded from the application server. You specify the attachment file types to block in the Options window in the Administrator application. For more information, see the help for the Administrator application.	Enterprise Edition only
	Database updates	For SQL databases, installation on the SQL Server 2012 database platform is now supported. For Oracle databases, ODP.NET replaces Oracle Client.	Enterprise Edition only

Area	Feature/ Function	Description	Limitations
Administrative (cont.)	Group permissions	Specify which user groups are allowed to associate records in various tables with problems in the Problems table. Also specify which tasks users of the web application can see in the Task Manager. For more information, see the help for the Administrator application	Enterprise Edition only
	LDAP support	For LDAP setup, benefit from more flexible libraries for SSL support. For more information, see the help for the Administrator application.	Enterprise Edition only
	Licensing	Integrating PTC Windchill Quality Solutions with PTC Windchill requires special licenses, depending on the integration features you want to use.	Enterprise Edition only
General functionality	Association tables	Associate records in the following tables with problems: FMEA Worksheet (if multiple actions are supported), FRACAS Incidents, FTA Table, RBD Table, RBD Blocks, and System Tree Items. You can also use the new Report Binder files to report on associations because previously unrelated tables can now be included. Additionally, you can filter across all table types. Version M030 added the ability to associate problems with records in the FMEA Tree Items table.	---
	File links in the desktop application	Version M020 automatically adds the “file://” protocol to the saved address for a file so that the link can open the file. While saving the protocol previously existed in the web application, it is new to the desktop application.	---
	Full screen and zoom capabilities	When using PTC Windchill Quality Solutions Web Access, you can maximize any tabbed pane in a System file to fill the window and then later restore it to its default size. You can also zoom in and out on to better view various portions of the file.	Enterprise Edition Only
	Graphing	Version M040 introduces the ability to generate true Pareto charts and many enhancements for creating sophisticated graphs with multiple data series. For example, when creating a graph with two data series, you can plot the second series using a different style than the first. You can also plot the second series against a secondary Y axis that uses a different scale. Additionally, when drilling down on graph data in the web application, you can go not only to a selected record but also to all records meeting the current filter criteria.	---

Area	Feature/ Function	Description	Limitations
General functionality (cont.)	Help Center	The help for PTC Windchill Quality Solutions Web Access defaults to a Help Center hosted on the PTC web site. While your system settings determine the language in which the Help Center is shown, you can change the display to any supported language. If your company restricts Internet access, you can point to a locally installed copy of help in the Web Help format. In this case, the language display is the same for all users.	Enterprise Edition only
	Import - Suppress warnings	Version M020 displays a Suppress Warnings page in the Advanced Options window for an import. When specifying the settings for an import, the Advanced Options window displays a Suppress Warnings	---
	LSAR Enhancements	LSAR (logistics support analysis record) improvements provide for generating LSAR files for import into SLICwave software. In the Enterprise Edition, a group permission has been added for specifying whether members can generate LSAR files.	---
	Report Binder files	Report Binder files replace the Subreport Manager and subreports. You can insert any number of reports and even nest reports to generate multiple reports from one Report Binder file. Version M020 added a property for each report so that you can specifying whether you want to show the report if it contains no records. Version M030 added support for personal filters from the desktop application. In the Enterprise Edition, the web application and the API cannot access personal Filter files. When running reports, they ignore personal filters.	---
	Start page control for FTA graphs	Version M020 embeds the gate selection for an FTA graph within the settings for the graph control.	---
FMEA	Automatic calculations	Automatic user-defined calculations across FMEA data levels are supported, including aggregate calculations.	---
	Control plan and DVP associations	Version M020 supports adding and removing associations directly from the FMEA Control Plans and FMEA DVPs tables. It also introduces the Add Association Wizard, which allows you to quickly associate FMEA Tree Items records or FMEA Worksheet records with a control plan or DVP.	---
	Filter support when causes and effects are siblings	Version M020 removes restrictions that prevented cause and effect fields from being used in filters when the cause level and effect level were siblings in the hierarchical FMEA data structure.	---

Area	Feature/ Function	Description	Limitations
FMEA (cont.)	FMEA Design file	An additional hierarchical structure in the FMEA Design file supports the insertion of multiple actions for each failure cause in the FMEA Worksheet table. If desired, you can set up a field in this new action data level as a shared field with a field in the Problems table.	---
	FMEA Modes Library files	A new FMEA Modes Library file named IEC 62380 Modes supports the failure mode types defined in the IEC TR 62380 standard, <i>Reliability Data Handbook - Universal Model for Reliability Prediction of Electronic Components, PCBs, and Equipment</i> . In the part definition for an RDF 2000 / IEC part, you can select a failure mode type so that the failure modes specified for this part in the IEC TR 62380 standard can be pulled into a component FMEA.	---
	FMEA Risk Matrix file	Create asymmetric, non-linear custom risk matrices by setting up initial and resulting definitions for each FMEA type in the Project's FMEA Risk Matrix file. Overrides for risk matrix definitions can be specified for particular FMEAs in the System file.	---
	FMEA Risk Matrix graphs	Use the Graph Wizard to generate either an initial risk matrix or resulting risk matrix based on the risk matrix definition specified for the FMEA.	---
	FMEA Worksheet merged cells	When using PTC Windchill Quality Solutions Web Access, merged cells in the FMEA Worksheet stay centered as you scroll.	Enterprise Edition Only
	FMEA Worksheet numbering	Version M020 supports renumbering FMEA Worksheet records sequentially in the desktop application when MSG-3 is licensed and enabled. While this functionality previously existed in the web application, it is new to the desktop application. You can renumber FMEA Worksheet records sequentially throughout the entire system or reset to 1 for each FMEA Tree Items record. In both the web and desktop applications, Version M020 allows you to renumber either all FMEA Worksheet records or only those FMEA Worksheet records for the active FMEA Tree Items record.	Enterprise Edition Only

Area	Feature/ Function	Description	Limitations
FMEA (cont.)	Ability to exclude Failure Effect Probability from an FMEA build	Version M040 introduces a System file property for the FMEA module: Do not build FMEA Effect Probability . Previously, the Failure Effect Probability value was always copied from the top-level effect to all lower-level contributing effects when the Build FMEA command was selected. If you select Do not build FMEA Effect Probability , the value for the top-level effect is not copied to contributing effects. This means that you can set the probability value at each lower-level effect based on its specific context. The values that you enter are not modified when the Build FMEA command is selected.	---
FRACAS	Problem Team Members table	Use this special Problems child table when you want administrators and team members to be the only users who can modify a problem and its associations with child records.	Enterprise Edition Only
FTA	FTA available on the web	Use the FTA module in PTC Windchill Quality Solutions Web Access. Special features like the Overview window and Task Manager provide for efficiently navigating large fault trees and managing long-running tasks, such as FTA calculations. For more information, see the help or guide for the web application.	Enterprise Edition Only
	FTA Common Monitors Library files	For SAE ARP4761 and SAE ARP4754A calculations, store common monitors in FTA Common Monitors Library files so that you can use them with multiple events to monitor latency.	---
	FTA simulation	Calculate time dependent and Lambda Tau fault trees using Monte Carlo simulation. If desired, specify confidence intervals for simulation and/or uncertainty analysis.	---
	FTA uncertainty analysis	Use this simulation-based method to analyze fault tree events that rarely occur. You specify failure properties such as failure rate using statistical distributions or confidence bounds. A standard error is then entered to indicate the uncertainty associated with the resulting failure rate.	---
	FTA variance reduction	Use this analytical simulation method with time dependent and SAE fault trees to reach required accuracy for small probability values. Instead of solving the original problem, this method solves a related problem that produces results with a smaller variance. It then uses an adjustment factor to obtain results for the original problem.	---

