

SMART, CONNECTED SUPPORT WITH PERFORMANCE ADVISOR FOR PTC WINDCHILL

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liveworx.com

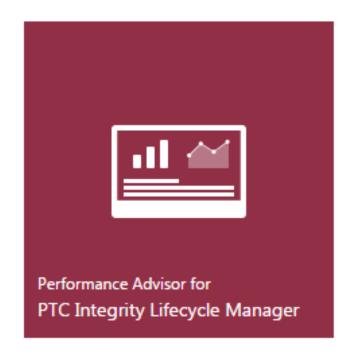


"QUANTIFIED PTC PRODUCTS"

PTC® Performance Advisor







customers are sending data to PTC

Connected proactive support



319,840 customer data sets collected

Connected proactive support



3.93/

recommendations sent to customers



AGENDA

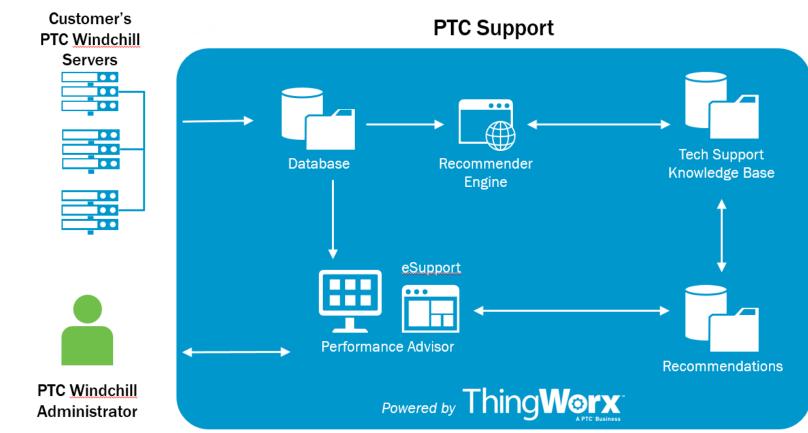
- Overview
- Demonstration
- ☐ Roadmap
- ☐ Call to Action

SMART, CONNECTED PTC WINDCHILL DELIVERS...



CAPABILITIES

- Using IoT to better service and support PTC software
- Proactive Support detecting issues before they become "issues"
- Configurable dashboards to help monitor systems configuration, usage and peer comparisons
- License and usage monitoring tools
- Private & Secure environment



BENEFITS

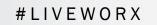
Increased end-user productivity

Decrease IT cost of managing PTC Applications

Reduced incident rates



DEMO



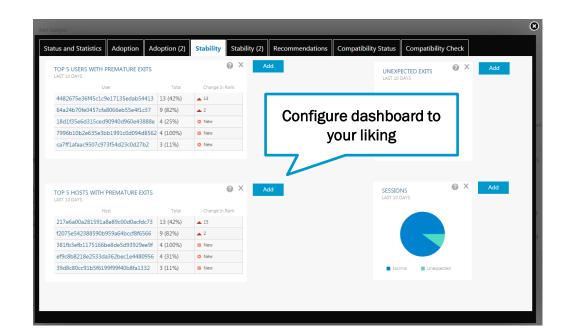
GET SMART

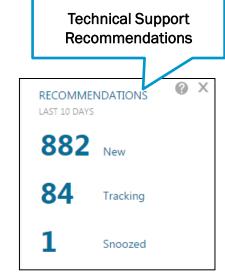
WORX 15

- Continuous delivery
 - SaaS approach
 - New Gadgets/capabilities delivered over time
- Flexibility
 - Personalize your dashboard to show reports of most interest
 - Only share the data your company is most comfortable in sharing
- Privacy
 - User information is anonymized
 - Only you have access to your data
 - Generic information aggregated for peer comparison reports









SECURE & PRIVATE



- Security & Privacy
 - User privacy UserID information is randomized using a keyless one-way hash prior to transmission to PTC
 - Data Transmission connection is made over SSL (port 443)
 - Data Security data resides on a set of PTC servers where it is hosted and processed. The server's security is rigorously controlled with limited access.

	System Information and Peer Comparison	License Compliance	Issue Reporting and Recommendations
Windchill System Information Windchillversion, configuration, OS, CPU, DB, etc	✓	✓	✓
Windchill Properties All property files, cluster wide	✓		✓
Windchill Performance Metrics JMX, Top SQL, Long running transactions, Cache utilization metrics	✓		✓
Windchill Database Statistics Database row counts, SQL statement statistics	✓		✓
Windchill Configuration Assistant Cache settings			✓
License Usage Report PDMLink, ProjectLink and View Print license usage; 1 week resolution of data		✓	

- Available for all Active Support customers running:
 - Windchill 11 F000 and higher
 - Windchill 10.2 M030*
 - Windchill 10.2 M020*

* Requires software patch downloadable from PTC

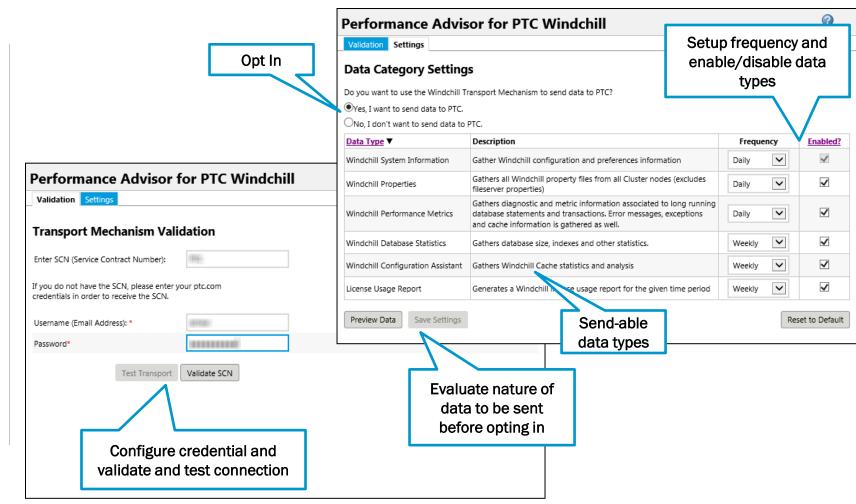
L I V E W O R X

GET CONNECTED



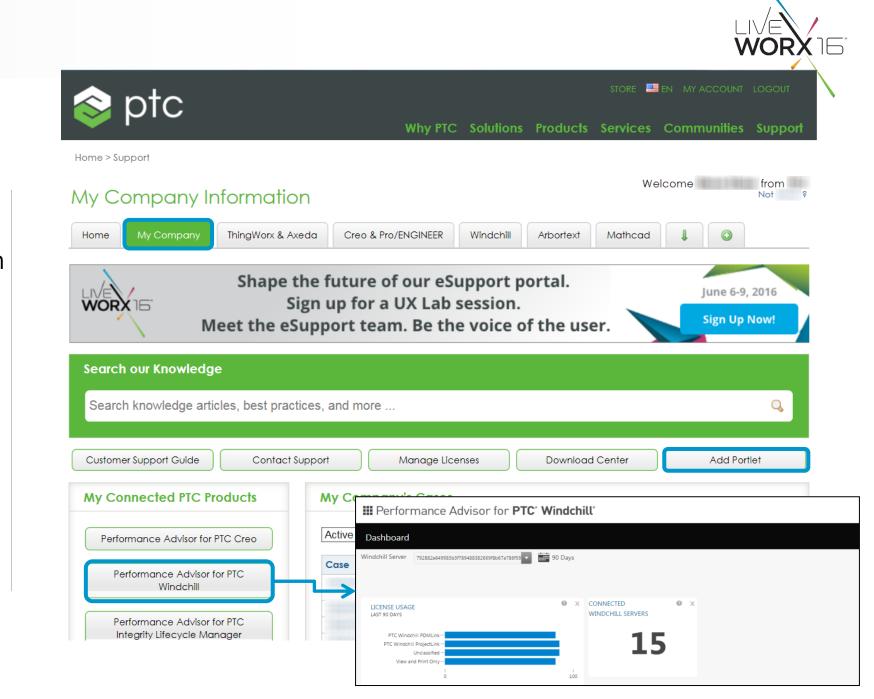
Site > Utilities > Performance Advisor for PTC Windchill

- Windchill Server Setup
 - Enable at Install option
 - Post-install opt-in option
- Setup communication
 - Provide SCN and Admin credentials
 - Test data transport connection
- Configure Data Sharing
 - Select data types
 - Prescribe frequency of data transfer



GET CONNECTED

- Go to your <u>PTC eSupport portal</u>
- Select the "My Company" tab
- Click on the "Add Portlet" button and choose "My Connected PTC Products"
- Requires
 - PTC.COM eSupport Online
 Supervisor credentials
 - Active Windchill SCN paired with privileges for the given user required.
 - Able to Access all connected Windchill servers under common SCN





ROADMAP



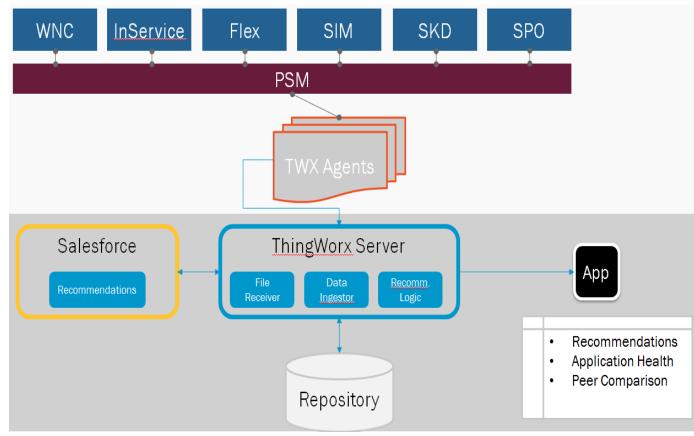
THE INFORMATION IN THESE SLIDES REGARDING POSSIBLE FUTURE RELEASES IS NOT INTENDED TO BE PART OF ANY COMMERCIAL OFFER AND IS PROVIDED SOLELY FOR INFORMATIONAL PURPOSES. SUCH INFORMATION DOES NOT IN ANY WAY CONSTITUTE COMMITMENTS, PROMISES OR LEGAL OBLIGATIONS UPON WHICH CUSTOMERS MAY OR SHOULD RELY. THE DEVELOPMENT, RELEASE AND TIMING OF ANY FEATURES OR FUNCTIONALITY DESCRIBED FOR PTC PRODUCTS REMAINS SUBJECT TO CHANGE AT ANY TIME AT PTC'S SOLE DISCRETION. IN NO EVENT SHALL PTC BE LIABLE TO CUSTOMERS FOR FAILURE TO ADHERE TO ANY SUCH ROADMAP AND/OR TO PRODUCE OR DELIVER ANY FUNCTIONALITY DESCRIBED IN THESE SLIDES. A CUSTOMER'S DECISION TO PURCHASE ANY PTC SOFTWARE PRODUCTS MUST IN ALL CASES BE BASED UPON THE CURRENT FUNCTIONALITY OF THE RELEVANT PRODUCTS AND NOT UPON ANY POTENTIAL FUTURE FUNCTIONALITY AND/OR FEATURES DESCRIBED IN THE PRODUCT ROADMAP.

CONNECTED PTC SYSTEM MONITOR



Capabilities

- Capture rich diagnostic data
- Visibility into feature usage
- Performance metrics
 - Application
 - Host



Fall 2016

Common Platform for PTC Products

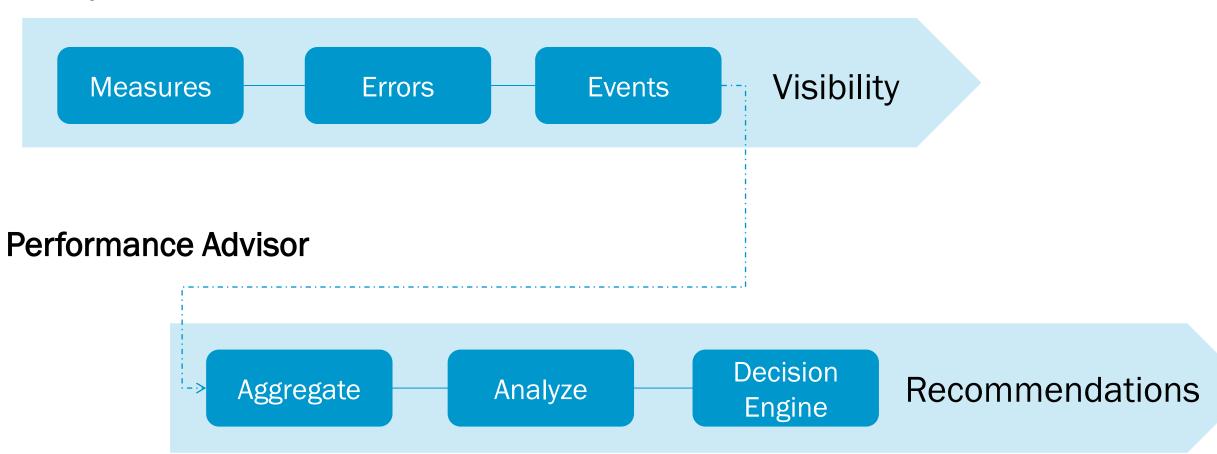
Feature Usage

Peer Comparison

PTC SYSTEM MONITOR vs PERFORMANCE ADVISOR

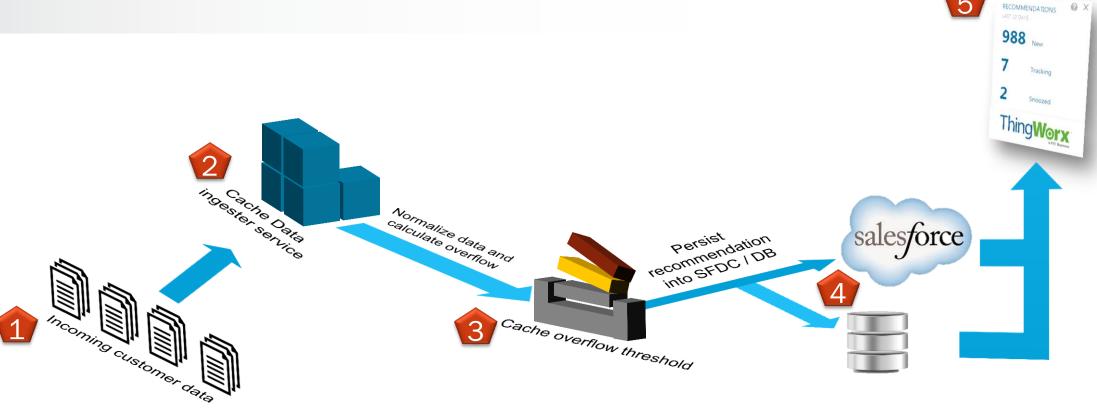


PTC System Monitor



CACHE RECOMMENDATION WORKFLOW







Incoming files are uncompressed. JMX. WCA and Customer identity data is extracted and passed on to ingester service JMX Data is loaded into memory, time interval data is normalized and overflow rate is calculated per cache per JVM

- If overflow is higher than 1/second across cluster, cache sizing recommendation is triggered based on current cache size:
 - <5000 increase cache size by 100%
 - >5000 and <50000 increase cache size by 50%
 - >50000 contact technical support

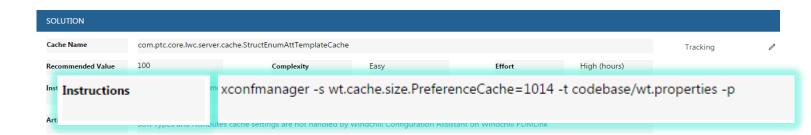
- Recommendations are persisted into SFDC and local DB based on overflow algorithm or WCA data
- 5 TWX integration hub pulls data from multiple sources into dashboard

RECOMMENDATIONS ROADMAP



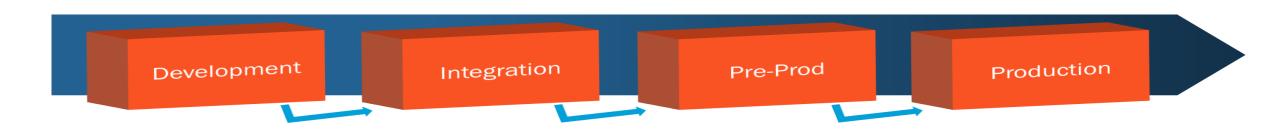
Today

- Custom tailored recommendations
- Easy to deploy



Phase 2

- Simplified deployment
 - Download solution package
 - Enables change control and automation



RECOMMENDATIONS ROADMAP



Phase 3

- Context and Impact per recommendation
- Validation of solution
- Automated Incident management workflow



PEER COMPARISON

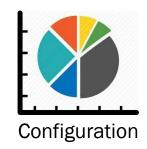


- Benchmark metrics
 - Availability
 - Responsiveness
 - Profile based comparisons
 - Feature Usage
 - Configuration
- Benefits
 - Identify anomalies
 - Identify and priorities areas for improvement

Application







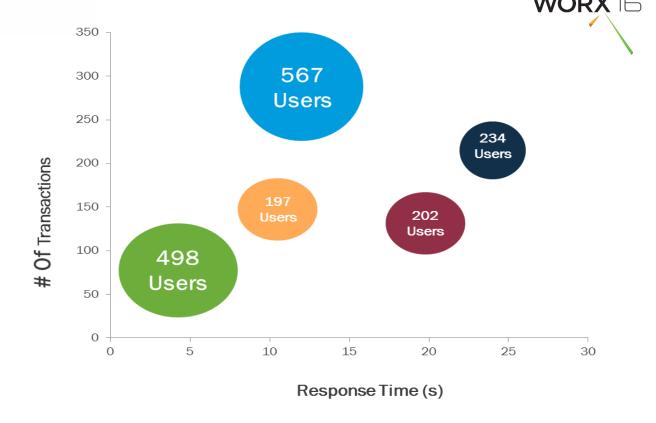
Performance

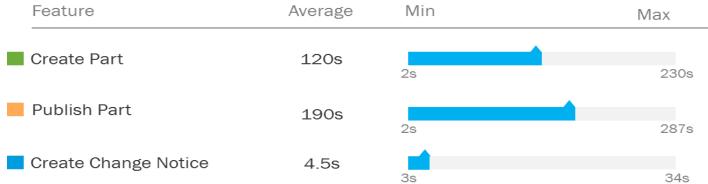
Feature	Percentile	Peer Average	Your Average	Min Avg	Max Avg_
Create Part	78 th	89s	120s		
				29s	230s
Publish Part	95 th	245s	190s	50s	287s
Create Change Notice	5th	2s	4.5s		
				3s	34s

FEATURE USAGE

Benefits

- Compliance with company standards and business best practices.
- Monitor usage of costly customizations
- Focus testing on usage patterns
- Improve precision learning programs for individual end-user adoption





ROADMAP



- Phase 2 Recommendations
 - Download Solution
- Browser Usage and Application Peer Comparison Reports
- Connected PSM



Fall

- Recommendations SQL Tuning
- Phase 3 Recommendations
 - Traceability and Context





Winter

2016

SUMMARY



Benefits of Performance Advisor

Optimize System	ximize Productivity	Control Costs	Reduce Risk			
Proactive insigh	shboard access to p better manage your	Optimize IT Resources to change from "firefighting"				
recommendatio	erprise systems	to business	Protect your			
support efficiency to deliver timely resolution	Decrease incident rates	Track license utilizat	investment	Controversi L Emercial control controle	s Active Users	TREND ANALYSIS.
Proactively avoid end- user performance issue	Increase productivity	restment protection rough increased time	Compare system configuration and informat peers	PTC Wind PTC Wind PTC Wind PTC Wind	Obali Vew/Print Adhil Project Link O 500 3000 1500	1900 19
Insight into system growth	"corrective-action" before impacting productivity	-budget performance through an optimized support strategy	Formal of process opt-in witrusted I	MATON	1 100	2015-06-07 30 5 5 2015-06-14 12 44 77 2015-06-21 15 3 9

GET CONNECTED AND JOIN THE CONVERSATION



Laces & Performance Advisor for PTC Windchill

