

PTC WINDCHILL®

11

SMART CONNECTED PLM™ PRODUCT LIFECYCLE MANAGEMENT



SMART



CONNECTED

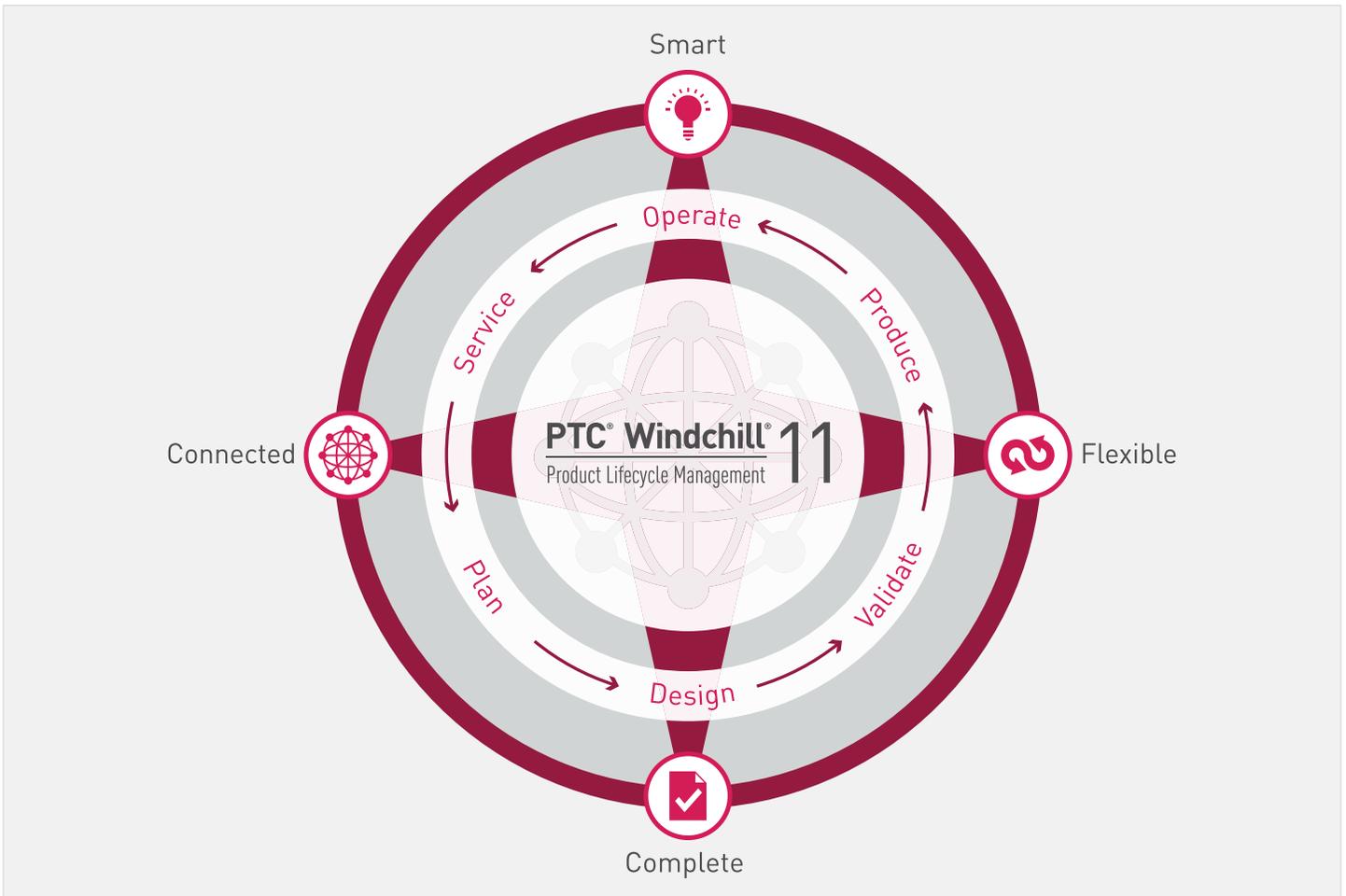


COMPLETE



FLEXIBLE

PTC®



PTC Windchill 11 Smart Connected PLM

Breakthrough PLM for Your Breakthrough Products

Breakthrough products demand more from your business. They demand more from engineering: like the need to bring together multidisciplinary teams to collaborate more closely than ever before on the design of today's highly integrated hardware, software, and connected systems. And they demand more from the rest of your organization: like the process efficiency needed to deliver your cutting-edge products to market faster and to earn your company first-mover advantage in the marketplace. Finally, breakthrough products demand more from your enterprise technologies: like the ability to integrate and execute on these multifaceted demands with an approach that scales to your business and doesn't slow down its users.

PTC Windchill 11 is the first PLM platform to deliver groundbreaking new technological advancements in product development data and processes, including:

- **Smart** delivery of role-based PLM data to targeted stakeholders at their point of need
- **Connected** data from the product's operation, leveraging IoT for fully closed-loop processes
- **Complete** multidimensional digital product definition, requirements through service
- **Flexible** deployment options that scale to your needs – including Cloud, SaaS, and subscription



SMART for All Stakeholders

Today's business environment can best be characterized by ever-mounting demands placed on increasingly burdened resources: most notably, the personnel who develop and rely on product data. Instant access to the data that product life-cycle stakeholders and others throughout your organization need to do their jobs is paramount – without confusing user interfaces, without costly training, and without further burdening the important work they do.

PTC Windchill 11 delivers new features for smarter PLM: role-based apps, streamlined search tools, and advanced IP protection.

- **Instant skills** for stakeholders within and beyond engineering to support critical product-related decisions
- **Quick, easy access to targeted PLM data** – in context with other business system data
- **Search faster, search better** to optimize finding and reusing valuable PLM data
- **Design anywhere, build anywhere** while protecting critical IP throughout both internal and third-party collaborators



Anyone in the company has the luxury of grabbing a bill of materials...and having confidence that what they're looking at is the correct and up-to-date information."

– Kar Dehal, Sr. Windchill Business Analyst, iRobot

iROBOT leverages PTC Windchill PLM to manage eCAD, mCAD, Bill of Materials, and change process information across all three of its diverse, globally recognized product lines: home, defense, and virtual presence.

Of its **500** licensed PTC Windchill users, **70%** are **outside** of engineering.

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PTC.com/about/customer-stories/iRobot

iRobot®

PTC Windchill

in Aerospace & Defense Companies



BAE SYSTEMS

BOMBARDIER

Raytheon

Honeywell



CONNECTED for All Processes

A worldwide Internet of Things (IoT) revolution has begun: transforming traditional products as we know them into smart, connected devices that generate streams of data about their own operation and can provide unprecedented new levels of value to engineering, manufacturing, and service organizations. But can your PLM keep up? Meeting the unique new challenges of creating, operating, and servicing smart, connected products is a daunting but necessary task for manufacturers who want to maintain a competitive edge in today's world of quickly advancing technologies.

PTC Windchill 11 offers the first PLM architecture enabled by IoT technology: delivering on the promise of PLM for the first time in history by connecting manufacturers to their product's operational data. IoT technology provides users with access to product data from the entire lifecycle, requirements through performance:

- **Real-time failure reporting** that leverages IoT to deliver error codes, operational data, and analysis instantly
- **Visibility across the enterprise** into products' operational behavior and real-world quality metrics
- **Faster, more accurate improvements** to service, manufacture, and design quality
- **Close the loop with requirements traceability** between PTC Integrity and PTC Windchill
- **Optimize PTC Windchill** with IoT-enabled Performance Advisor, delivering smart, connected support and proactive fixes



We can actually create action out of the feedback we were getting in to our engineers.”

– Jim Cosco, VP Quality Strategy, Systems & Processes, HP

Leveraging **PTC Windchill Quality Solutions**, HP closed the loop on product quality and improved product reliability:

Reduced annualized outage events by

15%

Reduced average annual (customer) downtime by

20%

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PTC Windchill in High Tech & Medical Device Companies



ST. JUDE MEDICAL

MORE CONTROL. LESS RISK



PHILIPS

Boston Scientific



MOTOROLA

FLEXTRONICS
Network Services



Medtronic



COMPLETE for All Product Data

Complex products rely on an increasing number of engineering disciplines to collaborate closely together throughout the product's lifecycle – and the changes made in one specialty need to be realized and integrated throughout all the others. But today's methods for collaboration – sharing CAD drawings, managing spreadsheets of domain-specific information, and using out-of-date desktop technologies that can't span disciplines – only result in inefficiency, inaccuracy, and skyrocketing costs.

PTC Windchill 11 provides a single source of truth for product data and processes that spans the lifecycle, requirements development through service, including manufacturing and quality disciplines and extending the completeness of data seamlessly into the unprecedented realm of the product's operation. It delivers PLM data that is:

- **Multidimensional** – integrating requirements with PLM data through advanced OSLC technology
- **Transformational** – offering synchronized manufacturing-, engineering-, and service-level views of the BoM
- **Process-driven** – advancing core PLM functions like change, query, visualization, and workflow
- **Model-based** – delivering dynamic CAD data downstream to enable a parts-centric design approach



Standardization of design across all our platforms...
leads to a lot of productivity.”

– L. Srinivasan, eServices Program Manager, GE Appliances

By managing eCAD data, Bill of Materials and collaboration in PTC Windchill, **GE Appliance** experienced:

75%

Time-savings in the release management process

30%

Reduction in parts library

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PTC Windchill in Industrial Manufacturing Companies



Solar Turbines

A Caterpillar Company





FLEXIBLE for All Deployments

The term 'enterprise software' has for years conjured up images of an unwieldy, difficult to maintain, costly, and resource-heavy investment – burdening your IT team and your business. Fundamentally change this paradigm with PLM that relieves the burden on internal IT, provides Cloud-based access to vital product development data and processes to every user who needs it, wherever they are, and offers subscription-based pricing that scales up or down on an as-needed basis. Let PTC handle your top technology and business concerns like upgrades, security, and accessibility while meeting your users' needs for scalability, uptime, and speed.

PTC Windchill 11 on the PTC PLM Cloud helps your company more fully realize and deliver the value of product data and processes through offerings like:

- **PLM on the Cloud:** fully hosted, customizable, completely secure, and available anywhere
- **Upgrade-free:** let PTC handle upgrades, security, and keeping you current on the latest features
- **Subscription pricing** on an as-needed, active user basis – mix and match the features you need
- **Scalable** to meet your business needs as programs scale up, or down, and user needs change



With PTC Windchill we are able to turn around product designs in 6 to 9 months where it would have taken us 15 before.”

– Linda Heth, Director of Engineering Services, STRATTEC

Global automotive supplier **Strattec** improved productivity and reduced waste with PTC Windchill.

3 MONTHS

total time to deploy PTC Windchill for 300 users

122%

annual ROI for the project

Source: Nucleus Research



PTC Windchill

in Automotive Companies



Value Ready Deployment: Accelerate Time to Value with PTC Windchill 11

PTC's Value Ready Deployment (VRD) for PTC Windchill 11 minimizes time to value with an integrated, pre-configured approach for business alignment, process change, cloud-based deployment, and role-based user adoption.

VRDs are not one-size-fits-all packages that typically focus on "go live" rather than real business value. In contrast, they are easily adaptable baseline approaches that guide companies toward best practices while allowing significant flexibility to support individual company requirements.

- Value Ready Deployments (VRDs) provide pre-configured but adaptable best practice processes based on the full array of capabilities built into PTC Windchill 11. This guided but flexible approach minimizes planning and design time while ensuring that companies get the most value from the technology in their individual environment.
- With the VRD, PTC Cloud Services deploys, tests, and tunes the software on a secure, cloud-based infrastructure designed specifically for PTC Windchill 11. This eliminates the often lengthy and costly effort to design, procure, and deploy the required technology in-house or with a more general outsourcing partner.
- Pre-configured, role-based adoption material accelerates and ensures end user adoption of the new ways of working with PTC Windchill 11. This minimizes potential slowdown, or resistance to change, and accelerates time to value beyond the deployment itself.
- By combining pre-configured process change, cloud-based deployment, and role-based adoption, the Value Ready Deployment for PTC Windchill 11 can ensure implementation, adoption, and real business impact in a matter of weeks or several months compared with the seemingly endless cycles of older approaches.

PTC® Windchill® 11

Smart Connected PLM



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TO LEARN MORE about PTC Windchill 11 Smart Connected PLM please visit: [PTC.com/go/windchill11](https://www.ptc.com/go/windchill11).

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