

PTC Environmental Regulatory Compliance Solutions

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August 27, 2004



PTC is Leading PLM Provider for Electronics Companies

PTC Helps Manufacturing Companies Improve Product Development Processes and Win with Superior Products

- ◉ 35,000+ customers, 500,000+ users
- ◉ \$672M 2003 Revenue
- ◉ Over 3,000 high tech companies use PTC solutions

Delivers Industry-Leading Product Lifecycle Management (PLM) Solutions

- ◉ **Windchill** – Interoperable PLM solution for electronics companies
- ◉ **Pro/ENGINEER** – Market leader for 3D MCAD for electronics companies
- ◉ **InterComm** – Electronic design verification, visualization and collaboration



EMC²



UNISYS



H **HARMAN/BECKER**
AUTOMOTIVE SYSTEMS



PTC Support for Data Exchange Standards

PTC will continue to adopt industry-standard data exchange formats

- ⊙ IPC PDX 2.0
- ⊙ Environmental compliance / material declaration standards

Current Windchill (PLM) native support for major data exchange standards:

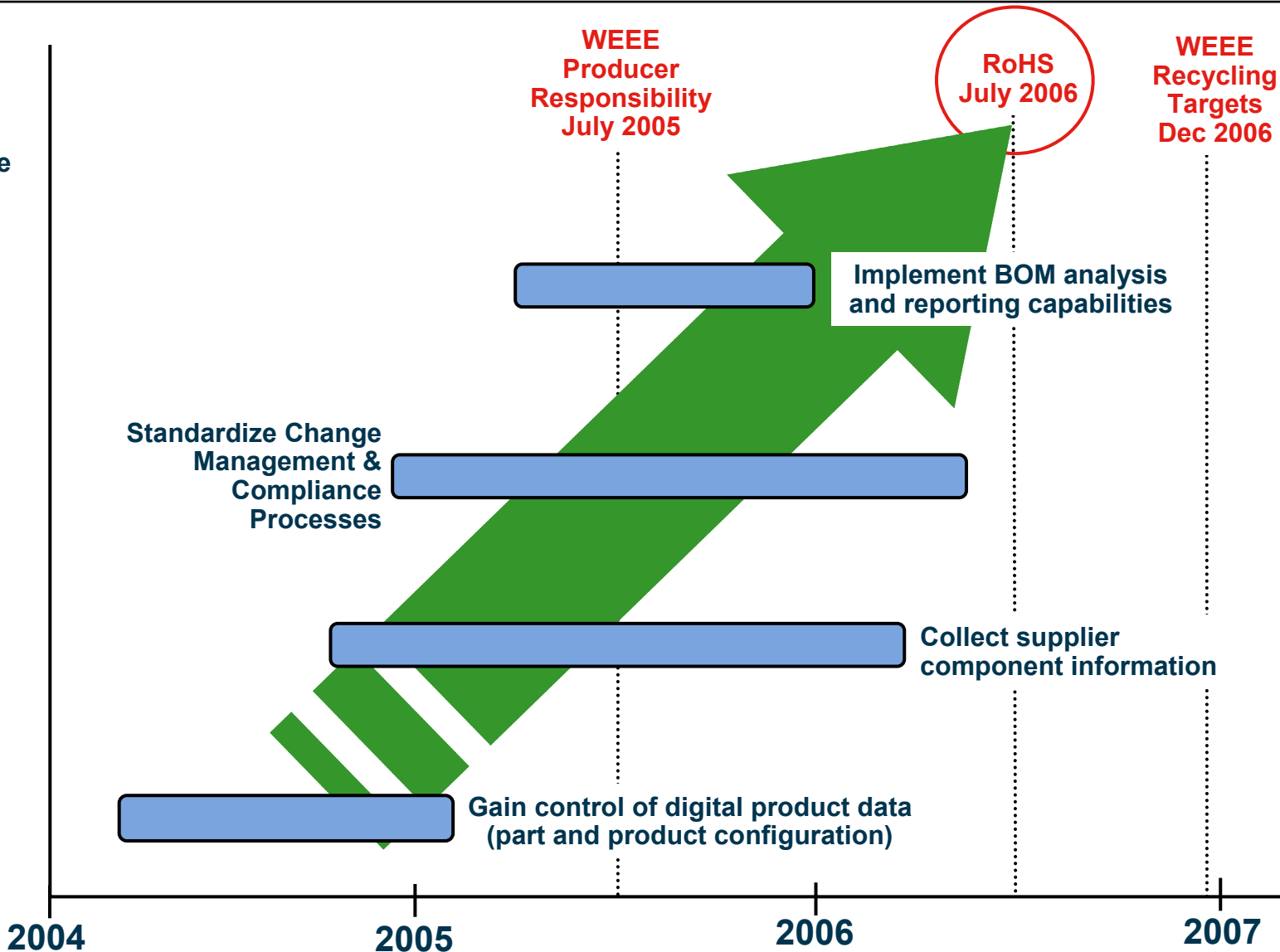
- ⊙ PDX import / export
- ⊙ RosettaNet
- ⊙ IDF, EDIF, ODB++, DXF, GDSII for electronic (PCB & IC) designs
- ⊙ Web Services

Integration to Tibco for additional support

- ⊙ Additional RosettaNet PIP / EDI integrations
- ⊙ Enterprise system integrations

Windchill Path to Compliance Success

More Flexible, Robust Compliance Solutions



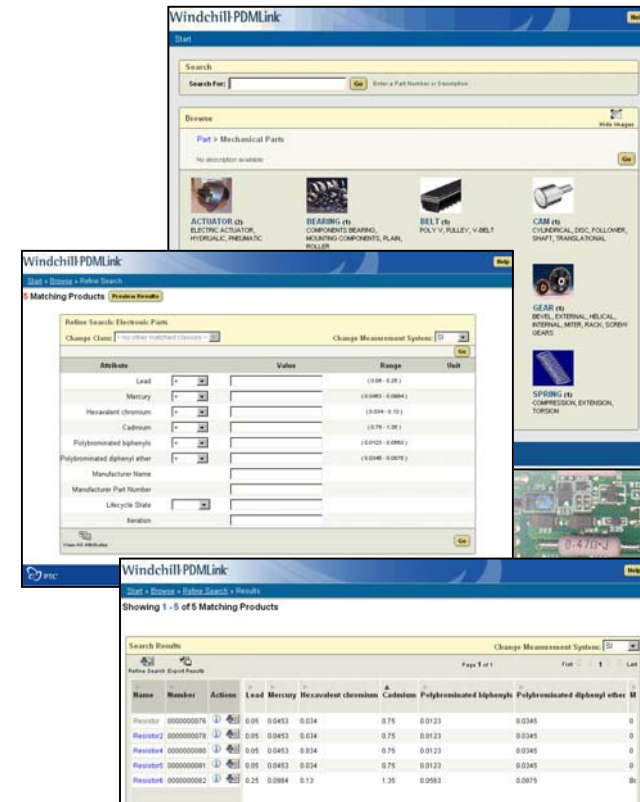
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Integral solution provides a single repository for all part and product development-related data

- All compliance documentation & specifications
- Support engineering, design, sourcing processes
- CMII change management processes

Standard features to support compliance

- Part Classification & Re-Use
- Multiple Tracking Attributes (e.g. PPM of Pb by component)
- Collection / distribution of Supplier Data
- Detailed Compliance Management Reporting
 - Roll-ups of component information at the sub-assembly or product
 - Identification of non-compliance according to RoHS, customer-specific requirements, or other environmental regulations



The image displays three screenshots of the Windchill PDMLink software interface. The top screenshot shows a search page with a search bar and a list of product categories including ACTUATOR, BEARING, BELT, and CAM. The middle screenshot shows a detailed search results page for 'Electronic Parts' with a table of attributes and values. The bottom screenshot shows a table of search results for 'Electronic Parts' with columns for Name, Number, Actions, and various chemical elements like Lead, Mercury, Hexavalent chromium, Cadmium, Polychlorinated biphenyls, and Polychlorinated diphenyl ether.

Attribute	Value	Range	Unit
Lead		(0.00 - 0.05)	
Mercury		(0.000 - 0.0004)	
Hexavalent chromium		(0.004 - 0.10)	
Cadmium		(0.70 - 1.00)	
Polychlorinated biphenyls		(0.003 - 0.000)	
Polychlorinated diphenyl ether		(0.000 - 0.0070)	
Manufacturer Name			
Manufacturer Part Number			
Lifecycle State			
Revision			

Name	Number	Actions	Lead	Mercury	Hexavalent chromium	Cadmium	Polychlorinated biphenyls	Polychlorinated diphenyl ether
Revision1	0000000074		0.05	0.0453	0.034	0.75	0.0123	0.0345
Revision2	0000000074		0.05	0.0453	0.034	0.75	0.0123	0.0345
Revision4	0000000080		0.05	0.0453	0.034	0.75	0.0123	0.0345
Revision5	0000000081		0.05	0.0453	0.034	0.75	0.0123	0.0345
Revision6	0000000082		0.25	0.0084	0.13	1.35	0.0563	0.0070

Questions?

