



CASE STUDY

**Large Printing Division
Reduces Complexity and
Minimizes Development
Costs using Windchill PLM**

INTRODUCTION



ABOUT THE CLIENT:

The client is a leading global provider of software, technologies, and products with a rich history and tradition in Manufacturing, offers information and technology services as well as manufacturing PCs, printers, and computer accessories. The client develops, manufactures and markets digital printing solutions, including printing presses, proprietary consumables and supplies.

Client Challenges



Client was looking to scale up and realize full blown PLM and move up the curve in the digital transformation journey. The client had only basic functions of PLM implemented using multiple systems often in silos used by single, internal departments. The specific challenges include the following

- Non-Standardized product development process
- Inefficient supply chain and vendor collaboration
- Manual and outdated integrations resulting in loss of control over information
- Challenges in achieving Business Intelligence leading to incorrect delivery of information
- Inconsistent information across multiple systems
- Open loop processes causing performance and inefficiency, cost and quality pressures
- Poor end user experience



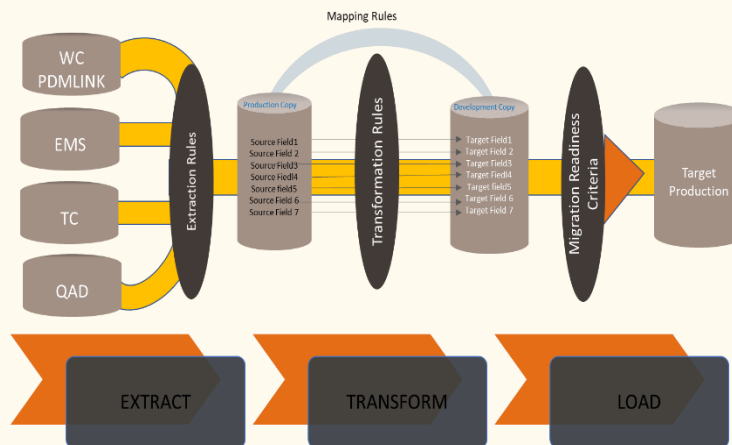
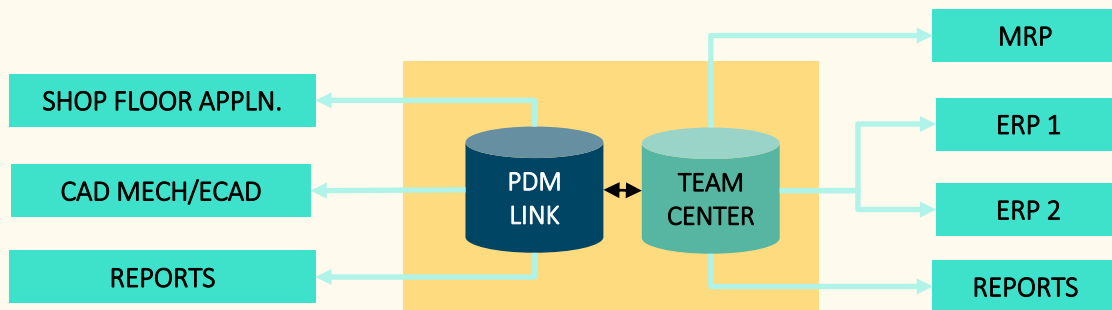
ITC Infotech Solution

ITC Infotech defined requirements, developed step wise implementation model and deployed a full-blown PLM solution that catapulted the client to higher PLM maturity

- ITC conducted several workshops and assessment drives to understand the current PLM maturity level and developed a 'PLM framework' for implementation.
- The solution was deployed using Agile methodology
- Consolidated data from multiple systems and synchronized with other applications
- Automated and implemented closed loop, optimized processes and best practices
- Centralized information resulting in powerful data governance and traceability
- Windchill as single source of truth provide the client agility, scalability, and global collaboration. Also, it has improved the way users create, access, and manage product data across departments, eliminating unnecessary manual tasks. Implementing a variety of use cases has also enabled the client to have a significant impact across new product development (NPD).
- Enabled a full operational bill of process across the enterprise and helps reduce the cost of human errors, accelerating the time to industrialization. The increased interactions between designers and manufacturing engineers during development helps the client identify issues early on and ensure manufacturability and agility.

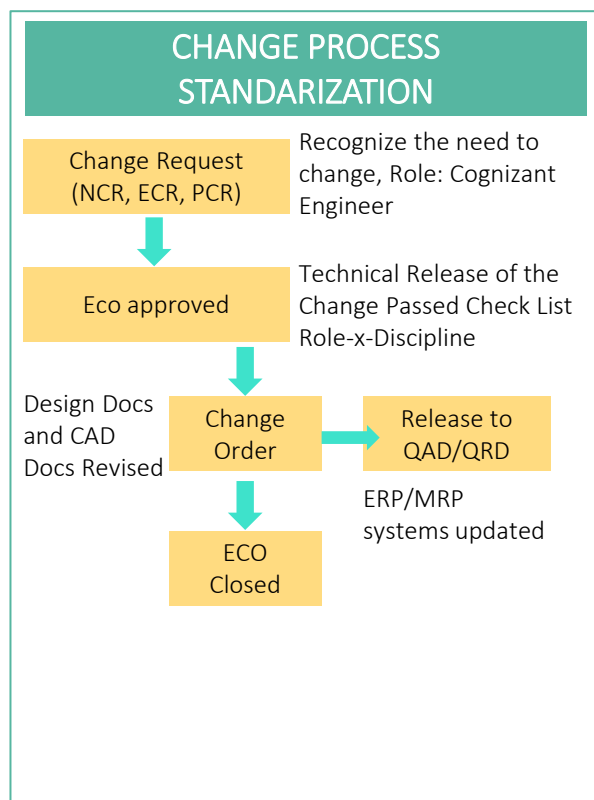
DATA CONVERSION AND CONSOLIDATION

ITC Infotech executed the data conversion involving 20 years of data that includes 5million part records, 1 million documents, 20 million CAD records and files, and 60 million relationships with three dry runs, one pre-production and production. The data were sourced from multiple systems profiled using ITC standard templates, transformed to clean duplicates and eliminate redundancy and obsolete information using ITC boilerplate scripts. Also, established relationship between CAD and Parts, created super loaded BOM that explodes with Mechanical, Electrical & Electronics, and Software components, and dependents, resulting information published in multiple formats to requesting applications. The production cut-over that spanned 116 hours was executed with no disruption to operation.

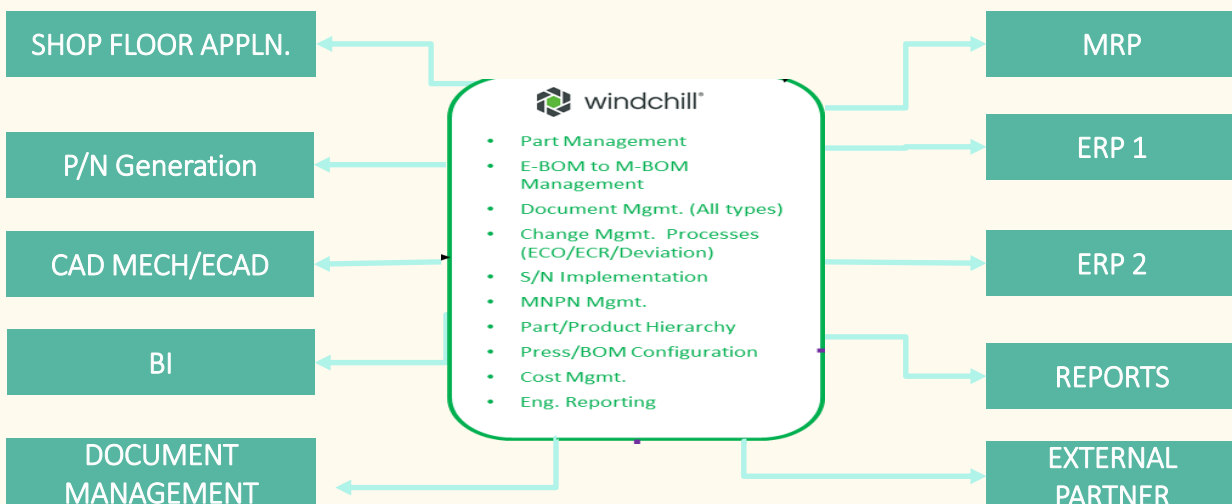


PROCESS STANDARDIZATION AND AUTOMATION

ITC Infotech deployed a unified PLM that eliminated legacy engineering tools, standardized NPI and change management processes, developed several custom reports (BOM Costing and Change processes) that provides real time visibility and traceability of information at any time during the product lifecycle, integrated Windchill with multiple application like ERP, MRP and Mold base that improves data governance and traceability, developed custom intelligent auto Part and CAD numbering application providing standardization. The unified system enabled efficient collaboration of cross function teams and suppliers were notified of the changes real time reducing manufacturing errors.



UNIFIED PLM



PART AND CAD NUMBER GENERATION

Generate New Number

(8 objects)

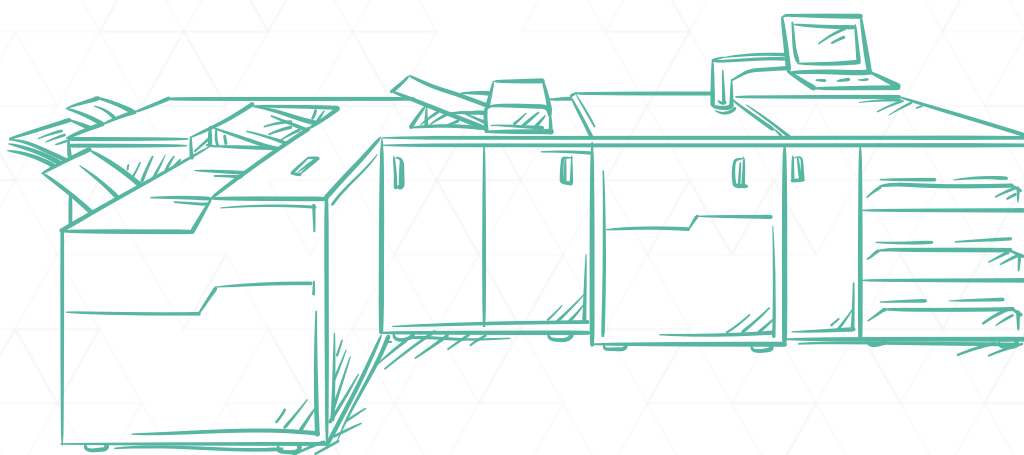
Number	Description	Project Code	Sub System	Sheet Size	Connectivity	Sub Connectivity	Technology	Primary Material	Thickness
H51N434G8-ASB	Printer Gen A.	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*
H51N434M1-PPT	Gen Shaft	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*
H51N434Q3-PRT	Right Panel St.	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*
H51N434M2-PPT	Gen Her Unit	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*
H51N434G5-ASB	Gen Panel I.a.	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*
H51N434M4-PRT	Left Panel Stand	H5	N4C2	connectivity * L *	Wiring Head *	WIO-path *	General Use *	AL857-4L-4356-76	*

Target Part: 000000000 SuperPanel A.S Design
Product: Hgpcnt1
Executed by: vcalatin
Time of Execution: 2018-03-02 15:16:07
Estimated cost:
Actual cost: 675
Projected cost: 675

HP Bom Cost Rollup and Analysis Report

Name	Number	V
HPComp1	00000000171	
HPComp2	00000000022	
HPComp3	00000000027	
HPComp4	00000000023	

REPORTS

[illegible]

Bottom Line

ITC Infotech can help manufacturers in their digital transformation journey leveraging PLM. The successful example discussed is testimony to ITC Infotech's domain expertise and PLM service competency.

For details about ITC Infotech PLM capabilities please refer:
<https://www.itcinfotech.com/>



About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

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