PTC® Live Global

CUST231 - Simplified Purchased Parts Process Management

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Principal Architect

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Presenters

Kristi Van Hofwegen

Employed at Daktronics in South Dakota for 13 years. Experience within Daktronics that includes Manufacturing, Sales, Manufacturing Processes, and Business Analyst with the PLM Team.

Sateesh Dendukuri

Principal Architect at Datafrond with over fifteen years of PLM experience. Helped companies of all types and sizes across a diverse range of industries to implement PLM solutions that drive long-term benefits and sustainable returns. Focuses on serving clients in the Aerospace, Airline, Engineering, Consumer Products, High-Tech and Services industries.

Daktronics is a manufacturer of large scale, high end, LED video/message displays. We design and manufacture product from the PCB level through to the final display, including controllers and the software running our displays. Our displays are prominent throughout professional sports, high profile locations such as Times Square in NYC, and common places like banks, gas stations, restaurants, billboards, and scoreboards at local schools. We have sales offices all around the globe and manufacturing facilities in Brookings, SD; Sioux Falls, SD; Redwood Falls, MN, Shanghai and our recent acquisition in Belgium.
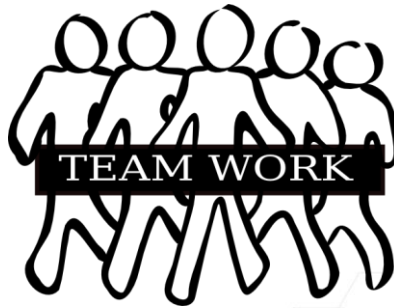
- PLM Team and Vision

- Supplier Management Implementation

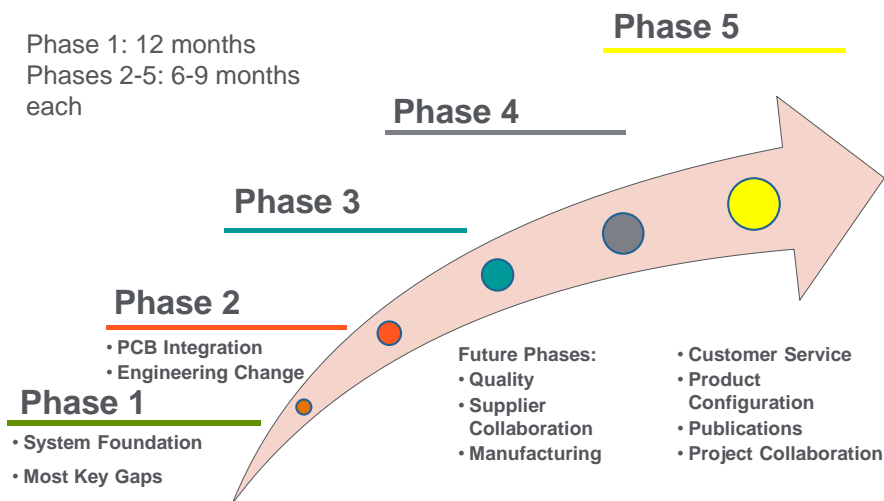- Current State

- Road Blocks

- Short Term Implementation

PLM Team

PLM Team (Created in Fall of 2013)

- Engineering Manager

- Engineering (2)

- Customer Service

- Manufacturing

- Project Manager

- Consultant

Phased Implementation Plan

Phase 1: 12 months
Phases 2-5: 6-9 months each

Phase 5

Phase 4

Phase 3

Phase 2
- PCB Integration
- Engineering Change

Phase 1
- System Foundation
- Most Key Gaps

Future Phases:
- Quality
- Supplier Collaboration
- Manufacturing

- Customer Service
- Product Configuration
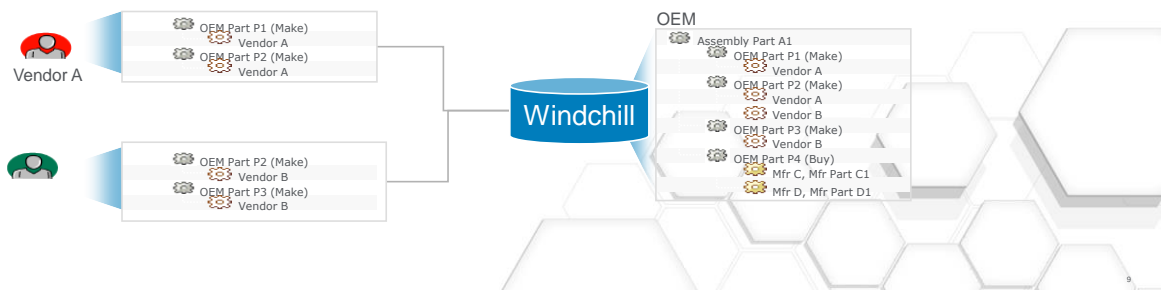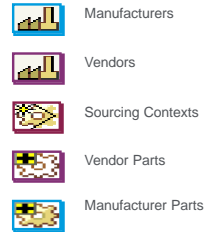- Publications
- Project Collaboration

Scope

- Item Creation Integration

- Documentation Integration

- Classification and Attributes

- Supplier Management

- System Level Parts

- Standards

- Migration
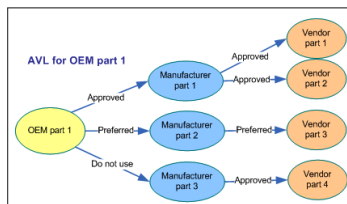
Supplier Management In PTC Windchill

Supplier Management (SUMA)

PTC Windchill Supplier Management enables companies to integrate and manage supply chain data within PTC Windchill

- ⊙ Manage Manufacturers, Vendors & Sourcing Contexts
- ⊙ Manage Manufacturer Parts & Vendor Parts
- ⊙ Manage the AML & AVL – the relationships between manufacturer parts, vendor parts, and internal parts
- ⊙ Assign default supplier preferences based on "context"
- ⊙ Assign AML & AVL part preferences based on "context"
- ⊙ "Grade" internal items based on AML characteristics
- ⊙ AML & AVL mark-up & change management

	Manufacturers
	Vendors
	Sourcing Contexts
	Vendor Parts
	Manufacturer Parts

PTC Windchill SUMA Capabilities

- — Manage Manufacturer & Vendor Parts
- — Manage Manufacturers, Vendors & Sourcing Contexts
- — Manage the AML & AVL – the relationships between manufacturer parts, vendor parts, and internal parts
- — Assign supplier parts preferences based on "rules"
  - • Preferred
  - • Approved
  - • Do not use

Current State

Item Request Process

• Internal process for Buy Item and Approved Vendor List (AVL) Creation

Step 1: **Requester** is responsible for all tasks on this standard work checklist.

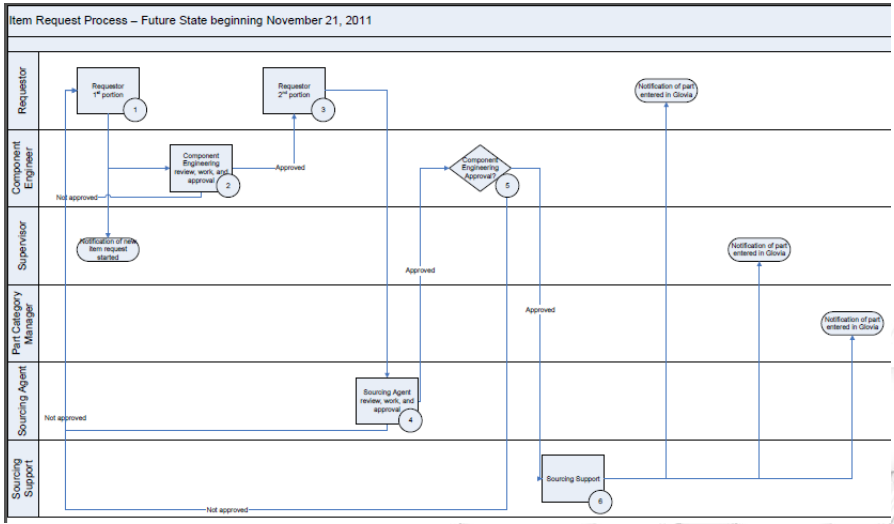|	
Part Description: Please enter in UPPER CASE.	INSERT; LL-2934 RC-100, FOOTBALL
	Reference DD1877791
Extended Part Description: Please enter in UPPER CASE.	
List similar parts and the reasons they cannot be used.	NONE
Who is the person that made the Engineering choice to use this part?	David Ulschmid
Is this component or part a Build to Print/Order and purchased outside of Daktronics?	⦿ Yes ○ No
Step complete: ☑	dmunson 2014-05-02
Comments:	
Notify Supervisor: ☐	Brett.Wendler@daktronics.com

Item Request InfoPath Form

Step 2: **Component Engineering** is responsible for all tasks on this standard work checklist.

Part Number: LL-2934   **Revision:** 00

Process Map

Item Request Process – Future State beginning November 21, 2011

AVL Data in ERP System

Road Blocks

Why is this process a Problem?

- Multiple Storage Location

- Time Consuming process

- Part Numbering

- The information we have today is very accurate, but brings challenges to locate because of the different storage locations.

Why we decided to take interim step before Supplier Management Implementation

1 Reason

Time Constraints

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New Implementation Plan

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New Vision: Implement Solid Foundation for PLM 1.0

- Item Creation Integration
- Documentation Integration
- ~~Classification and Attributes~~
- ~~Supplier Management~~
- System Level Parts
- ~~Standards~~
- Migration

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Short Term Goal

- Item Creation in PTC Windchill
- Generic numbering with commodity code for prefix for buy items
  - Engineer able to use PTC Windchill WT part for their Design work
- Process Updates

New Part

Set Attributes

Product:	PLM UAT System Testing
* Type:	Part
* Create as End Item:	No

Part Attributes

BT-3044306

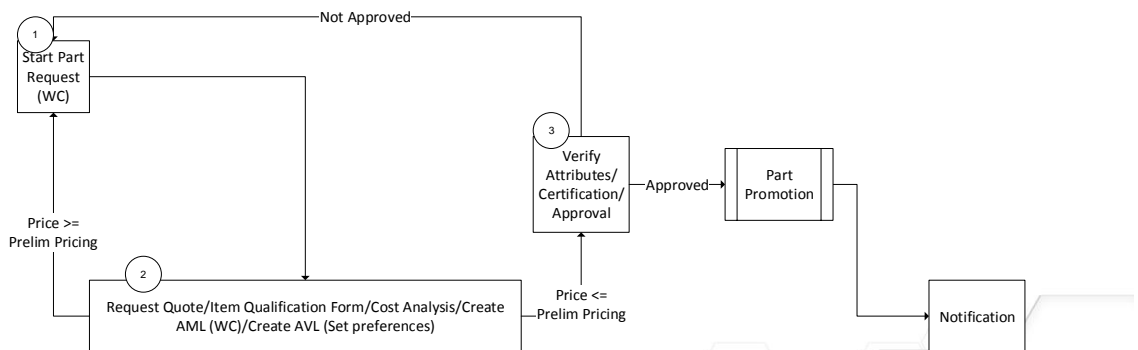| Number: | (Generated) |
Name:	
* Assembly Mode:	Component
* Source:	Buy
View:	Design
* Default Unit:	each
* Gathering Part:	No
* Life Cycle Template:	(Generated)
Team Template:	(Generated)
* Location:	Autoselect Folder (/PLM UAT System Testing/WT Parts)
	Select Folder /PLM UAT System Testing/W
Classification:	
* Commodity Code:	BT
Product Code:	

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Short Term Goal

- InfoPath Form Removed

- Utilized PTC Windchill Part Request Functionality

- Integration of Item
  - AVL data not included in Integration

New Part Request

① Define Object ② Details ③ Set Attachments ④ Related Parts

⊟ **Attributes**

*	Name	Value
	Number	(Generated)
	Team Template	(Generated)
*	Required By	▢ yyyy-mm-dd
*	Multiple Sources required?	○ Yes ○ No
*	Description	
*	Justification	
*	Step1.10 - Adding to CCN	▾
*	Step1.11 - Does part exist in another CC...	▾
*	Step1.12 - Estimated Annual Usage	
*	Step1.13 - Who is the person that made...	

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New Process

Step 1: Engineering

Step 2: Commodity Manager

Step 3: Component Engineer

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- Additional time to work on PLM Foundation
  - Building System
  - Testing
  - Training
  - Documentation

- Give our core audience experience in PTC Windchill

- Additional Time to work on Process Improvements

- Your feedback is valuable

- Don't miss out on the chance to provide your feedback

- Gain a chance to win an instant prize!

- Complete your session evaluation now

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