Collaborative Parts Management with ptc navigate™ & CADENAS PARTsolutions

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MOTIVATION: WHY CADENAS & PTC?
MOTIVATION

Common Business Challenges of Customer’s & Complementary Solutions
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Common Business Challenges of Customer’s & Complementary Solutions

- Operate
  - Connected Operations

- Produce
  - Connected Manufacturing

- Support
  - Requirements Management
  - System Architecture

- Plan
  - Software
  - Electrical
  - Mechanical
  - Manufacturing
  - Service

- Test
  - Validation
  - Verification

- Develop
  - Systematic Management of Purchasing Parts
  - Re-Use of Parts & Modules
  - Avoid Duplicate Parts
  - Part Reduction

Closed-Loop Lifecycle Management
Real world data:
Average costs per part
Internal calculations vary - depending on industry.

70% of total product costs can be influenced during development phase

Optimizing reuse rate of existing parts and reducing parts multiplicity influences the expenses for your product during the development in a way that is not possible at a later point of time.
HOW: PTC NAVIGATE & CADENAS
CURRENT SITUATION & CUSTOMER CHALLENGE

- Enterprise systems are too complex for many roles to get information themselves
- Even with in-depth training, infrequent users forget how to get information
- A single application does not include all information needed by role for a task

- Expert users become bottleneck for getting product information
- Expert users are distracted and burdened by requests from many roles
- Enterprise interfaces can be customized but it is often costly to create and maintain these customizations

Request product info

Designer/Engineer

Tooling Designer

Purchasing Agent

Quality Inspector

Process Planner
ptc navigate™ AS A SOLUTION FOR CONNECTED PLM

Role-based Apps

Tooling Designer
Purchasing Agent
Quality Inspector
Process Planner

Based on thingworx® Technology

Just the information needed:
Aggregated together from all the owning systems

ptc navigate™ view
first OOTB apps in a series

Just the information needed:
Aggregated together from all the owning systems

Designer
Engineer
**ptc navigate™ APP OPTIONS**

- Use OOTB Apps
- Build custom versions of OOTB Apps
- Build new, custom standalone apps
- Embed apps or mashups in Windchill Contexts
New PTC Navigate Application Framework provides:

- Common user experience model & components
- Common search services
- Common authentication services
- Common role management/behavior
BUILD NEW, CUSTOM STANDALONE APPS

CADENAS Apps included in ptc navigate Landing Page
BUILD NEW, CUSTOM STANDALONE APPS

CADENAS Catalogues as Standalone Navigate App
BUILD NEW, CUSTOM STANDALONE APPS

CADENAS GEOsearch as Standalone Navigate App
EMBED APPS OR MASHUPS IN WINDCHILL CONTEXTS

CADENAS Catalogs in Windchill UI

Data combined from Windchill and Creo
EMBED APPS OR MASHUPS IN WINDCHILL CONTEXTS

CADENAS GEOsearch in Windchill UI
customers and partners can take advantage of navigate framework and ThingWorx platform to create new or extend existing role-based experiences.

Example Ideas:

- Add custom attributes to existing apps
- Custom App to classify parts based on GEOsearch
- Custom App to display Duplicate and Make/Buy info
3 SUMMARY
Addressing Business Challenges through collaborative Parts Management

- **Make own part / module catalogues available in Windchill**
  - Including documentation, drawings & viewable
  - Integrate to standard part handling processes

- **Facilitate search & find of reusable parts, e.g. by**
  - Geometrical or full text search
  - High Performance (seconds vs. minutes/hours)
  - Integral view on company and standard parts
  - Combination of search methods (color, similarity, topology, attributes and others)

- **Consistent processes** and user experiences
  - Consistent classification
  - Full Windchill PartsLink integration
  - PTC Navigate provides common user experience & role specific access

- **Specific reports** support role responsibilities, e.g.:
  - Engineering Manager – design approvals
  - Standards Department – find similar parts
  - Procurement initiatives – clean-up of duplicates