# PTC<sup>®</sup> Live Global

CUST 233 - Evolving PTC Windchill After a Reorganization, While Broadening Business Support

Willy Velarde St Jude Medical, Sr. Manager PLM **Eric N. Starkman** The Stark Difference, Consultant

Tuesday, June 9, 2015 5:00 – 5:45 CUST233



# Agenda

- St Jude Medical background
- What is "taxonomy"?
- Why did we undertake a review of taxonomy?
- Process
- Common themes
- Example finding
- Roadmap



# St. Jude Medical background



#### WE ARE ST. JUDE MEDICAL



1

## WE ARE FOCUSED

on providing innovative, cost-effective medical technologies designed to transform the treatment of some of the

WORLD'S MOST EXPENSIVE EPIDEMIC DISEASES HEART FAILURE

HEART RHYTHM DISORDERS

VASCULAR DISEASE

STRUCTURAL HEART DISEASE

CHRONIC PAIN

MOVEMENT DISORDERS

#### WE HAVE ACCEPTED THE CHALLENGE

One of the biggest challenges facing health care today is finding ways to **improve patient outcomes while reducing costs** 

#### WE ARE COMMITTED TO

INNOVATION QUALITY PARTNERSHIP

# 12%

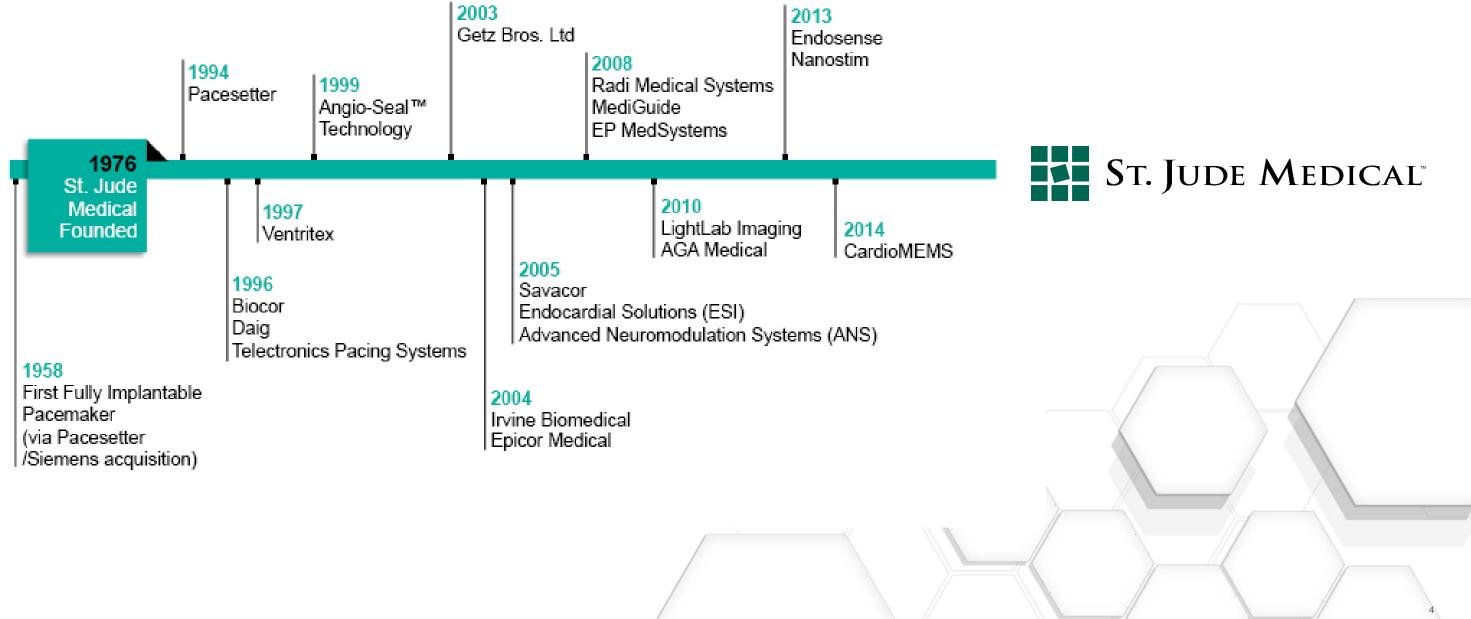
OF REVENUE IS INVESTED IN RESEARCH & DEVELOPMENT

OUTCOMES

COSTS



# St. Jude Medical History





# What is "taxonomy"?

## • Taxonomy includes...

- How we structure data to enable searching, browsing, and reporting
  - Both internal and regulatory
- How we identify the information owner / responsible person / group
- How workflow roles get assigned to specific people
- Access control model
- Windchill Product / Library structure
- How we meet Medical Device data requirements (Structure, Reporting)
  - Design History File (DHF) Product Development history
  - Device Master Record (DMR) all Production information



- Move from "business unit" structure, with four (and then two) business units, to "One SJM" organized globally by function
- Corresponding merger of 3 distinct PLM systems into "One SJM" PLM system
- Need flexibility to support future acquisitions and organizational changes



## Process

- Conducted interviews with 42 people throughout the company
  - Represent all (former) business units
  - Represent users of all three PLM systems PTC Windchill, Teamcenter, and CATSWeb
  - Represent key functional areas involved with PLM
    - Quality Systems and Document Services
    - Product Development
    - Design & Development Quality
    - Operations / Supply Chain
    - Program management
    - Clinical
    - IT
    - Security
- Developed list of common themes and opportunities
- Presented findings to key stakeholders
- Prioritized and built roadmap



# Common themes from interviews

- Make it easier to find information
- Too much information is inside forms
- Change management processes are not scaling to reflect data maturity
- Integrate CAD



Design History File – "node"

- What is a Design History File?
  - FDA requirement (21CFR820) for Medical Devices "A compilation of records which describes the design history of a finished device"

## Current approach – former business unit X

- PTC Windchill Folder structure
- Challenges: Can't reuse documents, no history of folder moves, no explicit link between DHF folders and DMR (BOM)

# Current approach – former business units Y, Z – Excel spreadsheet index of documents

- Documents stored in PDM system
- Challenges: Maintenance effort and contention on spreadsheet

## New approach – One SJM

- "Nodes" (subtype of WTPart) replace folders

## **Benefits**

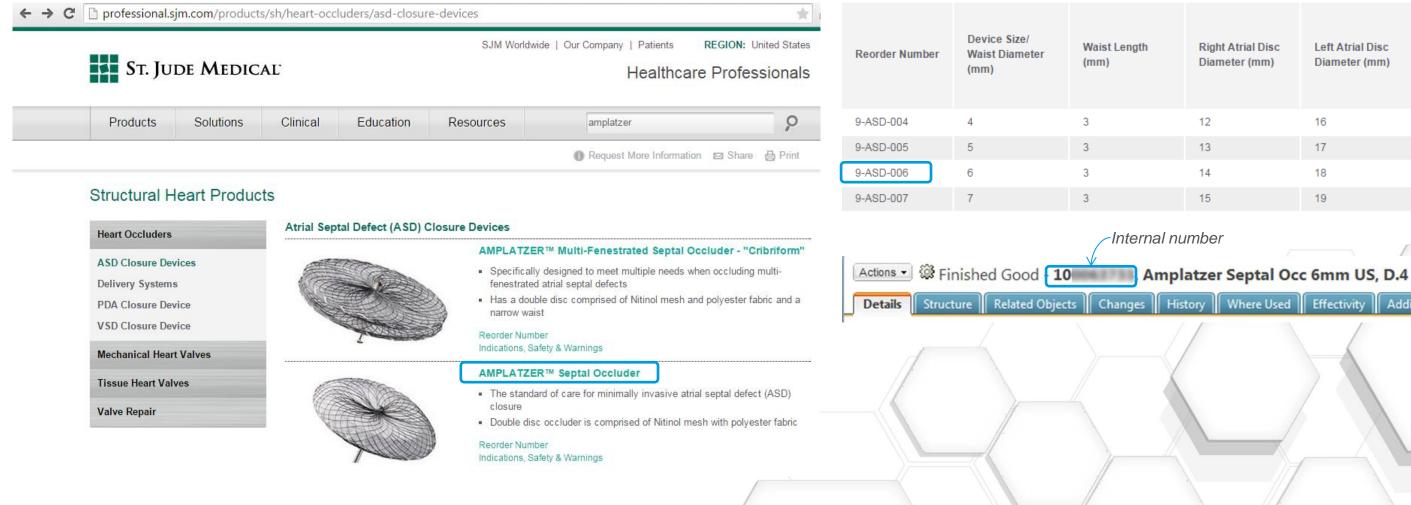
- Capture DHF at points in time (PTC Windchill baseline, effectivity)
- Reuse DHF documents (PTC Windchill Reference / Describe links)
- Search DHF "Nodes" (PTC Windchill advanced search)
- Relate DHF & DMR documents & nodes (PTC Windchill configurable links)

#### **PTC**<sup>®</sup> Live Global



# **Product Family Group**

- Problem •
  - Top-level of product structure in PTC Windchill (End Item) is a region-specific orderable device
  - People think of products at a higher level



#### **PTC<sup>®</sup>** Live Global

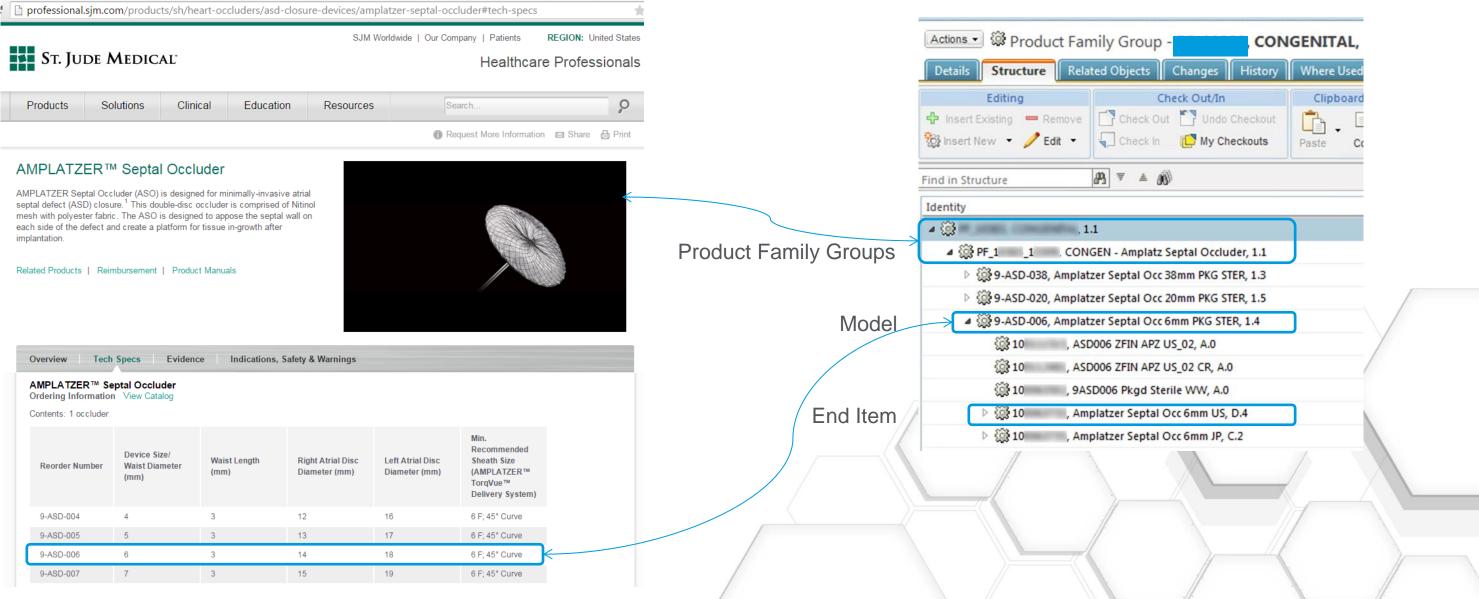
Right Atrial Disc Diameter (mm)	Left Atrial Disc Diameter (mm)	Min. Recommended Sheath Size (AMPLATZER™ TorqVue™ Delivery System)
12	16	6 F; 45° Curve
13	17	6 F; 45° Curve
14	18	6 F; 45° Curve
15	19	6 F; 45° Curve

ory	Where Used Effectivity Additional
(	10

# Product Family Group

Solution

- Product Family Group (type of WTPart) to organize end items at a higher level



# Visual Navigation of Quality System documentation

## Background / Problem

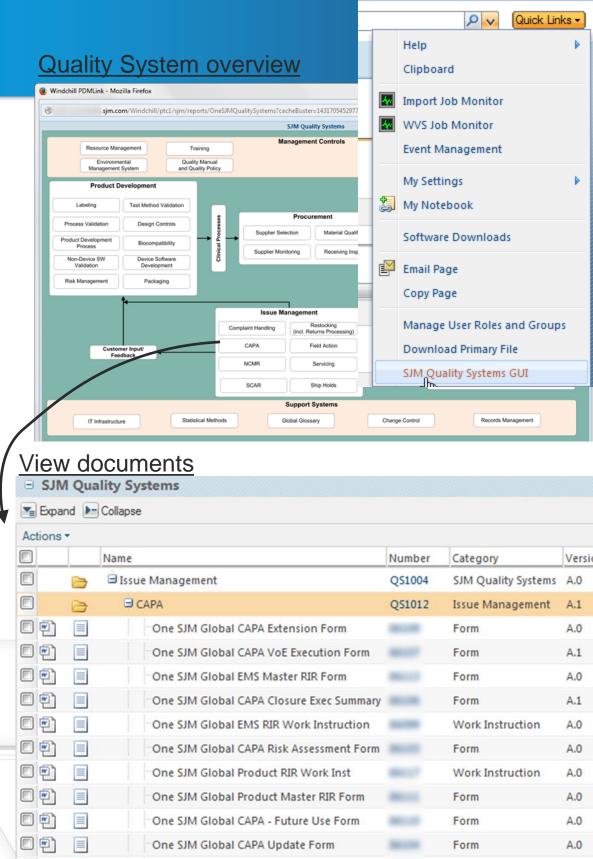
- Making it easy to find Quality System process / procedure documentation
- Documentation is maintained in Windchill but not practical for browsing
  - Thousands of documents •
  - Must either search by keyword (often too broad) or know the specific number

## **Original solution**

- Sharepoint site with Quality System Image
- Hotspots link to Sharepoint List
- List contains links to specific PTC Windchill documents

#### Challenges

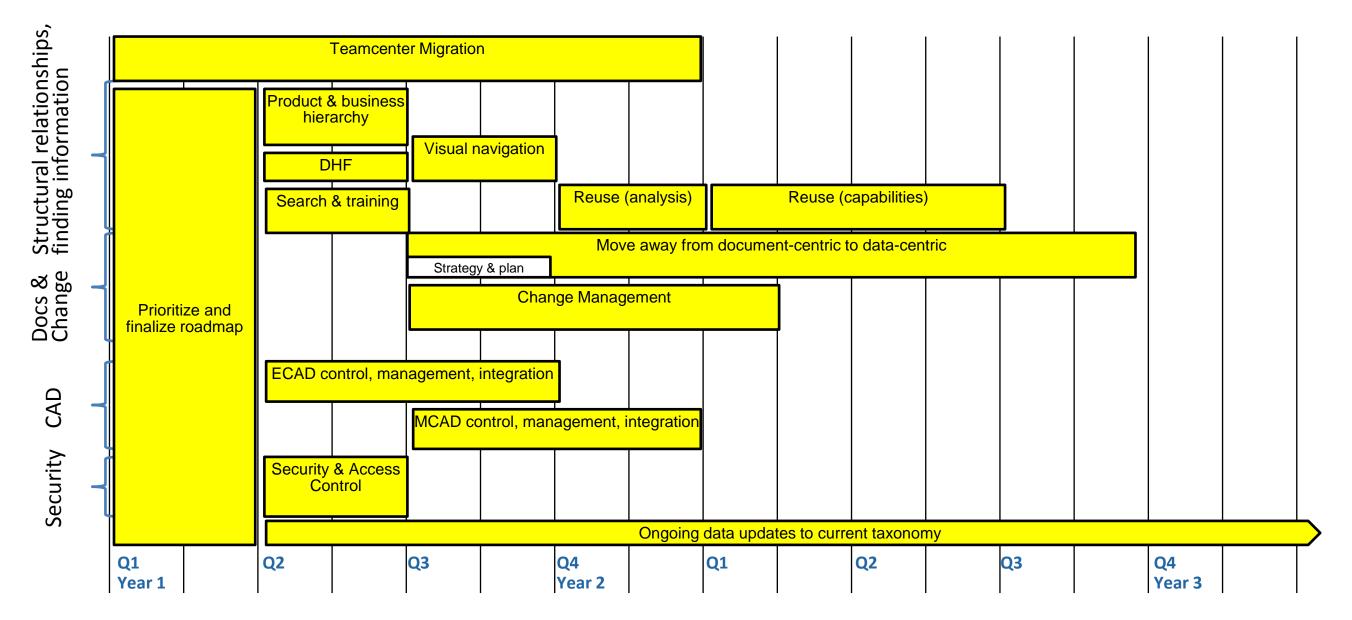
- Manual maintenance of Sharepoint data
- New solution •
  - Reorganize QS documentation under "Nodes" (PTC Windchill: WTDocument subtype), using Document Structure
  - Image hotspots link to the "Node"
- **Benefits** 
  - Self-maintaining in a single system



	Number	Category	Versio	
	Q51004	SJM Quality Systems	A.0	
	Q\$1012	Issue Management	A.1	
A Extension Form	-	Form	A.0	
A VoE Execution Form	-	Form	A.1	
5 Master RIR Form	-	Form	A.0	
A Closure Exec Summary	-	Form	A.1	
S RIR Work Instruction	-	Work Instruction	A.0	
A Risk Assessment Form		Form	A.0	
duct RIR Work Inst	1000	Work Instruction	A.0	
duct Master RIR Form	-	Form	A.0	
A - Future Use Form	-	Form	A.0	
A Update Form	-	Form	A.0	

# Roadmap

We updated our PLM roadmap to include initiatives to improve taxonomy



- 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

#### PTC<sup>°</sup> Live Global



