

Transforming Parts for Optimal PLM Effectiveness May 10th 2017 / 10:15 am

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Agenda

- 1. About Nellbore Technolo
- 2. Product Data Quality
 - Challenges
 - Solution and Roadmap
 - Maturity Journey of NOV
- 3. Solution partner CDS





NOV Structure





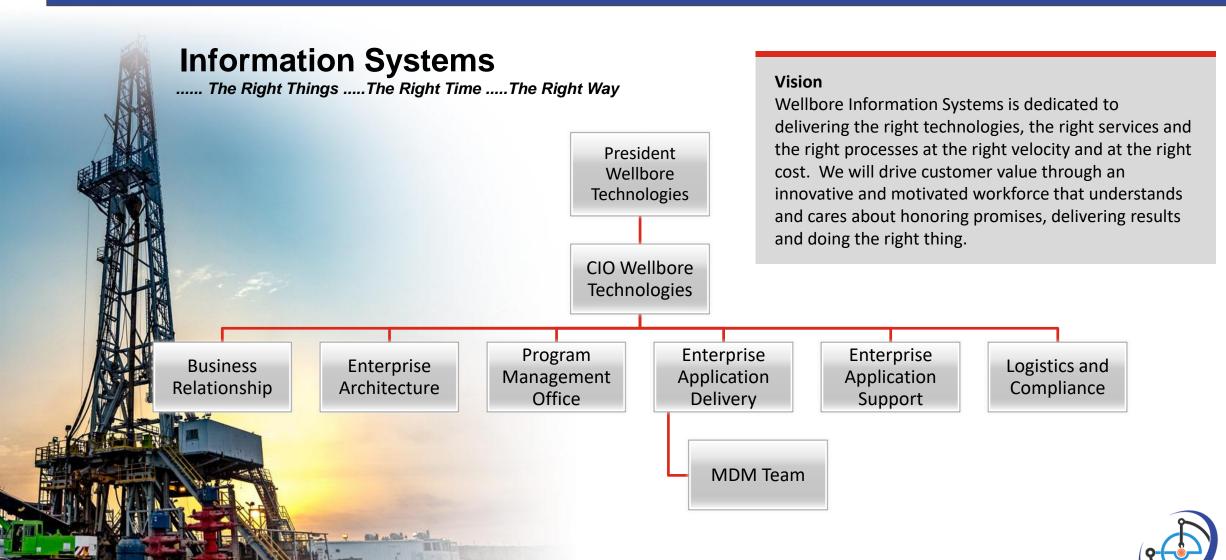


What we do...

Our people deliver technologies that drive new levels of safety, efficiency and productivity



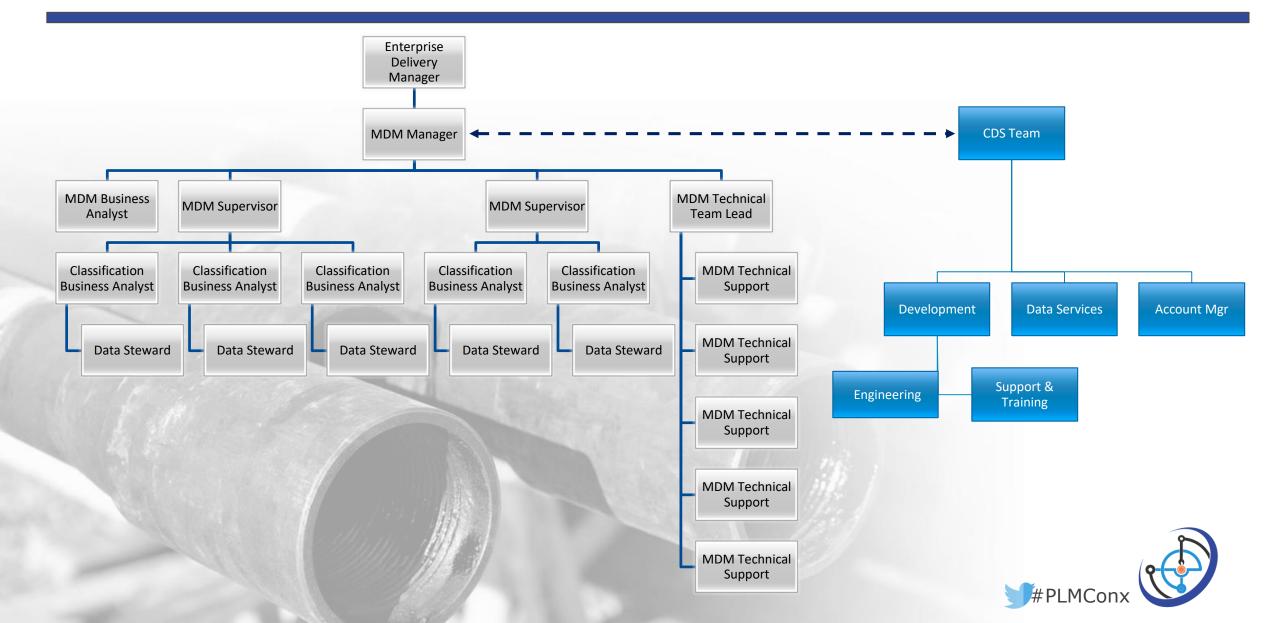




Initial Structure – Project Black Diamond



Current Structure – Wellbore IS MDM Team



NOV - Product Data Quality Challenges

Data Quality Strategy

Data Strategy was incomplete for BU's consolidating to JDE.

- Fragmented Data manually replicated without common definition of framework
- Data Quality is managed independently with no consistency
- Highly Manual data quality processes with limited governance

Mergers and Acquisitions

JDE Consolidation Strategy

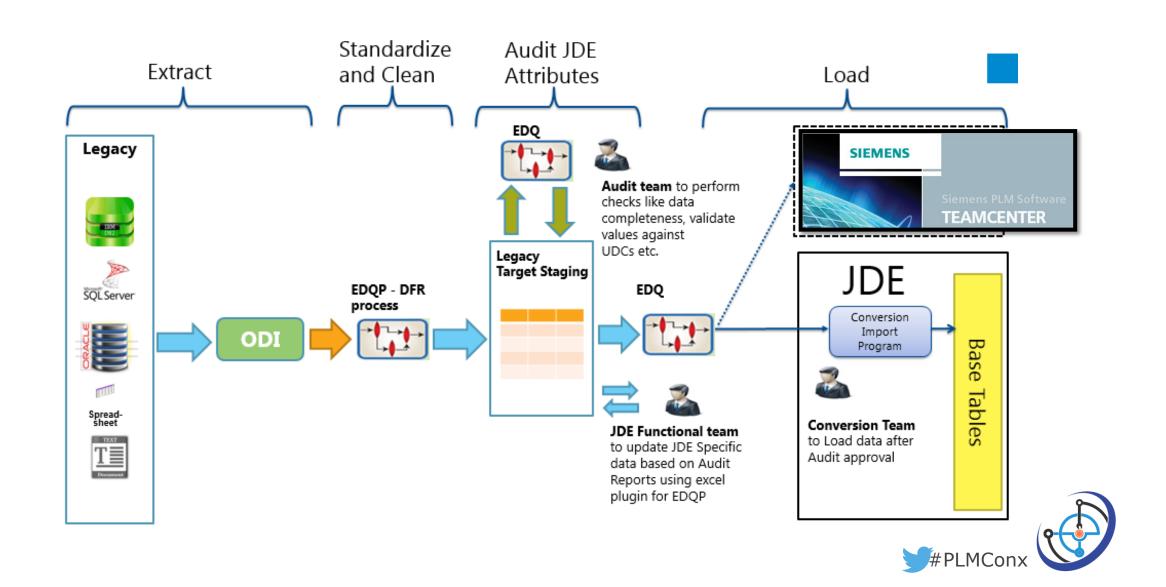
- New Acquisitions come with their own systems and data standards
- The data need to be normalized, classified, cleansed and de-duplicated for integration of data into JDE and NOV applications.
- Some tools in place to automate, manage and govern the process but still highly dependent on manual efforts and reviews.
- Takes 3-6 months for one consolidation project implementation

Maintain Product Data Classification and Attribution

- **Product Hierarchies** changes frequently due to Business restructuring.
- Manual, difficult and expensive methods for product classification and attribution



Case Study: NOV - Living process



Before - Data

Duplicates

- Acquisition like businesses
- Uncontrolled data entry

Search Limited

- Descriptions
- Inconsistent abbreviations

Inconsistent Reporting Data

- Unable to define structure to a what it is level
- Lack of Focus on categorization

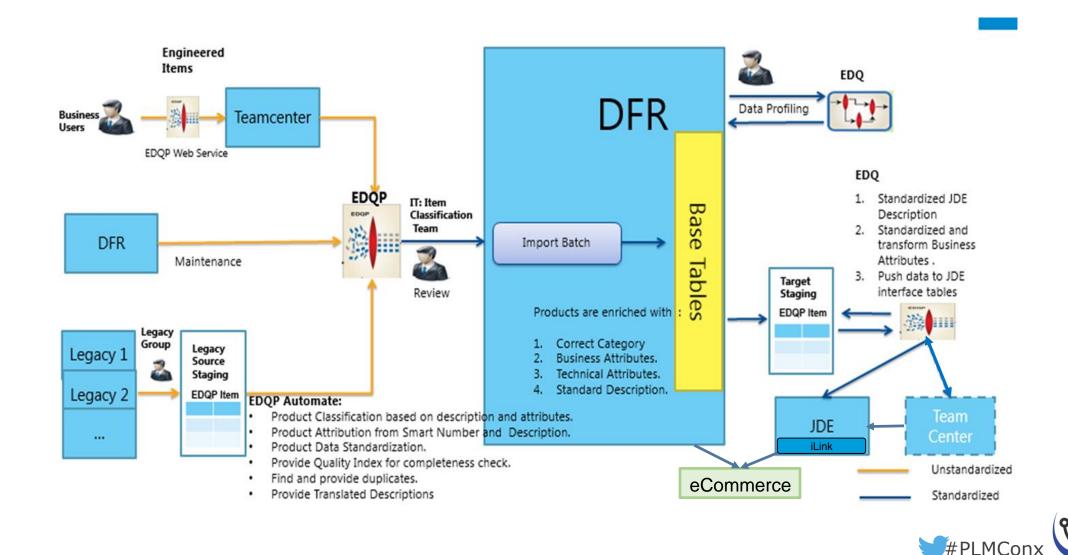
No Data Governance



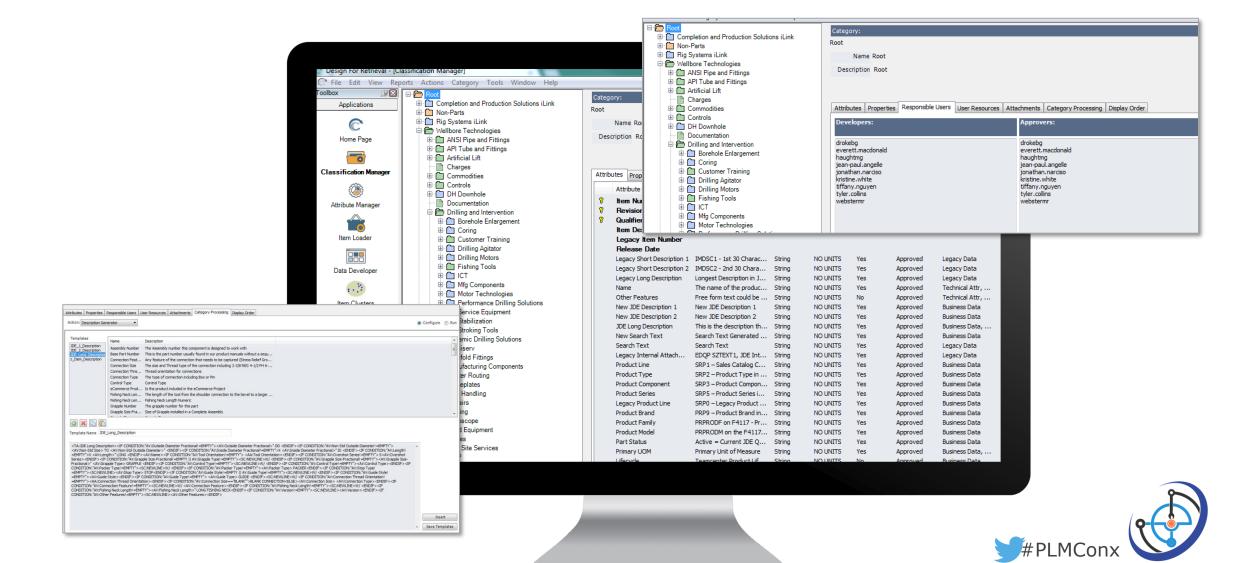
NOV Classification process:

	OLD	NEW
Addition of data to project	Excel files comparison	Systematic comparison
Working data by priority	multiple sources – loss of control	Single point entry
Approving data for multiple system use	Inability to set and keep track of multiple rules	Ability to set policies to assist with governance

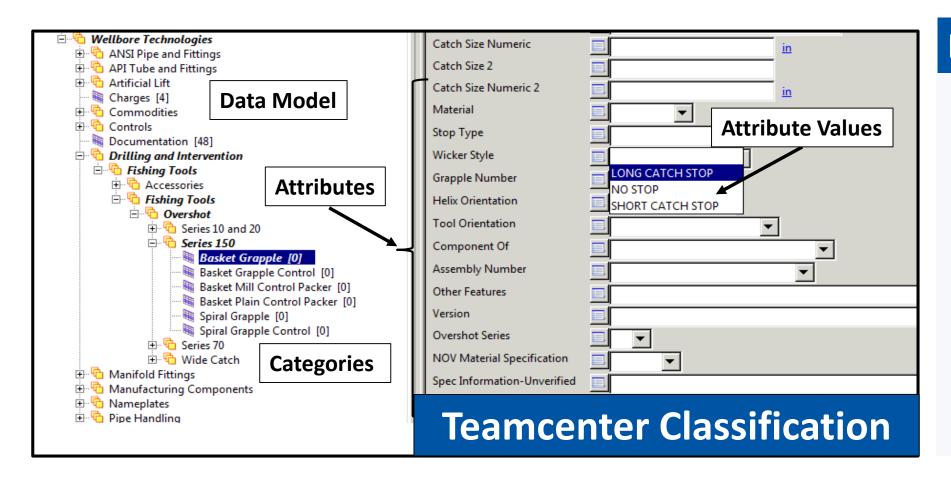
NOV Highlights - Integration



NOV Highlight - Classification - DFR



NOV Highlight – Classification - Teamcenter

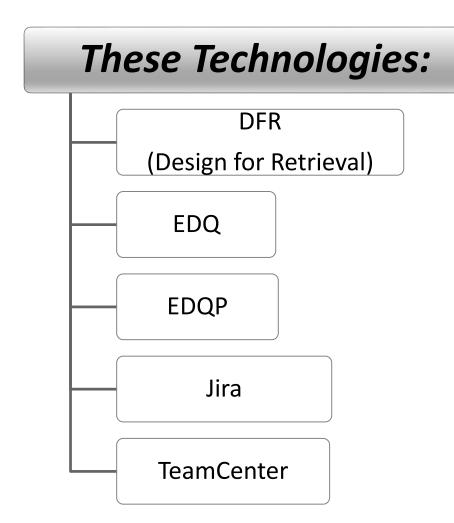


NOV Process

- Importing structure and parts from Teamcenter
- DFR to Teamcenter **UOM** mapping
- Teamcenter Id generation for exporting new structure
- Exporting PLM XML formats for both structure and parts
- Policy Manager rules to help control structure and part data to not violate Teamcenter rules



NOV Classification Technologies:







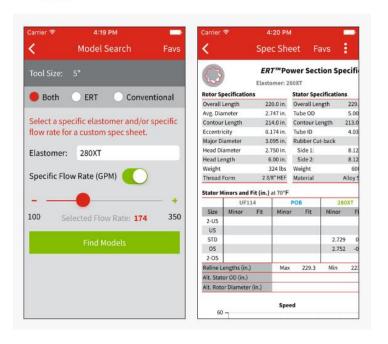
4 Classification Enabled Technology



B. I. Reporting

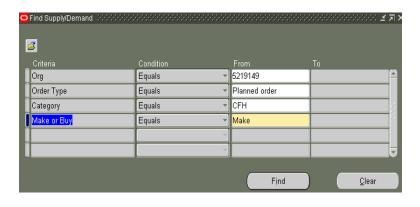






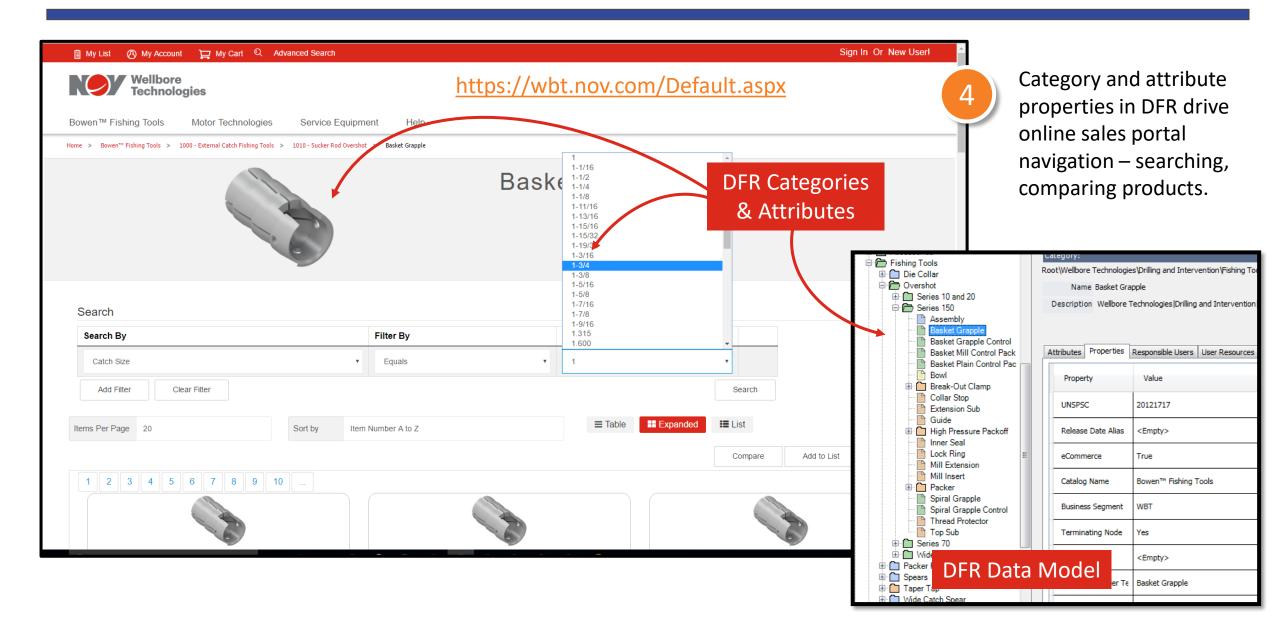


Advanced Supply Chain Planning





Online Sales Portal - 24 hr sales!



Assisting NOV



Our Mission

Help our customers extract more value out of their enterprise systems with improved part data.

15 Years Experience

Providing services to

- Aerospace/Defense
- Electronics
- Automotive/Industrial
- Consumer/White Goods
- Oil/ Gas

Cleanse & Normalize

Data from disparate sources (Purchased parts, MRO, design parts, etc.)

Prepare

Data for migrations: ERP, PLM, MDM, PIM

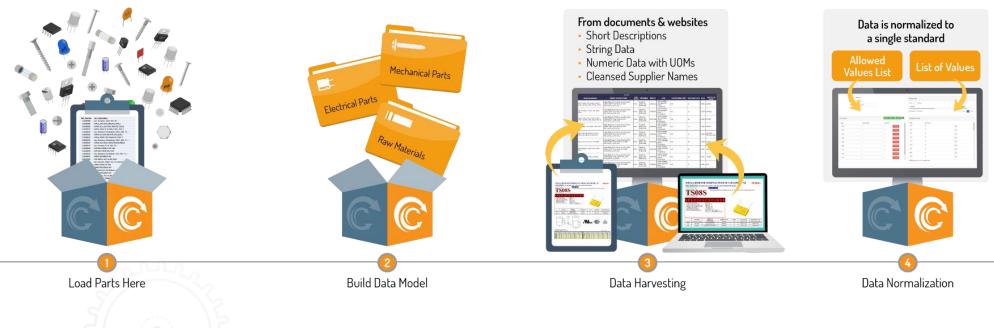
Support

Parts re-use initiatives, mitigate parts proliferation

Provide

Analytics supporting cost reductions & classification search







#PLMConx convergencedata



convergencedata

Clean Up Your Legacy Data

Easily jump start your classification project with CDS Data Services

- Find hidden parts
- ldentify duplicate parts
- Add attribute data for PLM classification
- Enter consistent descriptions
- Categorize your parts correctly



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