Streamline Your Development Workflows with Vault and Fusion Lifecycle

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Introduction
The Role of PDM|PLM
Combined Solutions
NPD/NPI Workflow
Change Workflow
Summary
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Belgium
(Electro-) Mechanical Engineer
16 years part of the Autodesk’ “ECO-system”
4 years @ Autodesk

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The RIGHT tool for the job
The RIGHT tool for the job
ROLE
OF
PDM | PLM
Efficient collaboration across divisions & systems

PLM – Integration of people, data, systems and processes

specification
	n RFIs, Ideas, Requirements
	s Specifications
	s Schedule
	s Feasibility
	s Concept ...

engineering

t Geometry

t Drawings

t Simulations

t Analysis

t CAD Structure

preproduction
	en EBOM, MBOM, Change Management, Preproduction Part Approval

t Process, Sourcing, Costing, Supplier Audits, Non Conformances,

t Data Exchange, Supplier Qualification, External Approvals, Claims,

t Compliance, Services, Supplier Change Request, ...

production

service
Manage **engineering data** to enable concurrent engineering

Drawings, Models, Assemblies with metadata and related template libraries

Used by **experts** who expect full coverage of their CAD design tools' capabilities within the CAD application

Added value is driven by seamless integration into CAE applications
Manage the product lifecycle end-to-end from early concept through engineering and production to services and maintenance.

Connects people, data, processes and systems to provide transparency & traceability.

Ease-of-use and automated processes enable efficiency gains for anyone worldwide.

Simplicity & Accessibility are as important as Flexibility & Configurability.
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COMBINED

Best-in-class
Solutions
Combined Best-in-class Solutions

On-Premise Engineering Data

- Integrated in CAD User Interface
- Local file storage for best performance
- Best support for CAD possible
- Software release to match CAD

Files remain in Intranet

Cloud Metadata & Processes

- Easily Accessible
- Instant worldwide deployment
- No software installation and maintenance
- Flexible & automated business processes

Global Process Efficiency

Supplier
Integration of PDM in PLM process map

CLASSIFICATION

PRODUCTS

TASKS

NON CONFORMANCE

CHANGE ORDERS

CHANGE REQUESTS

QUALITY INSPECTION

QUALITY INSPECTION PLAN

PROBLEM REPORTS

CAPA

DEVOLUTION WAIVER

RMA

FIELD FAILURE REQUEST

DOCUMENTS

ITEMS

CAD FILES

ECO

SUPPLIERS

AUDITS

DESIGN REVIEW

SUPPLIER CORRECTIVE ACTION REQUEST

PDM
Integration Characteristics

- Original files remain in Vault
- PLM receives
  - Document properties
  - Derived formats
  - Previews
- Items exist in PLM only
- Combined UI
- Automated
WORKFLOW
Demos
NPD/NPI Workflow

Change Workflow

Project
Folders

Geometry
Drawings
Document References

Geometry
Drawings
Document Structure

Project
Product

ipt
stp
dwf
http

NPD/NPI Workflow

Change Workflow

ECO

Problem Report
Change Request
Change Order

Item
EBOM
Product BOM
NPD/NPI Workflow
Autodesk Vault & Fusion Lifecycle
NPI workflow

Peter van Avondt
Technical Sales Specialist D&M
1. Product Manager: Enhance product to meet customer needs

2. CR Evaluation & Approved Item Revision

3. Engineering Design Manager: Receives ECO Task

4. Technical Review, Markup & Validate Changes Impact

5. 3D viewable Activity feeds

6. Upload and Attach 2D, 3D PDFs to assembly item

7. Change Request Completed

Service, Sales, Product Management, Manufacturing, Quality

ECO created and linked to CR

Designer Engineer Received ECO Task

New Rev. model & drawing based on ECO

Product Manager

Enhance product to meet customer needs

CR Evaluation & Approved Item Revision

3D viewable Activity feeds

Validate Change impact

Activity feeds 3D viewable

Upload and Attach 2D, 3D PDFs to assembly item

CR Closed by PM; QA & MFG

Change Request Completed

Design Engineering Team

Engineering Design Manager part of CR approval

Engineering Design Manager

3D viewable Activity feeds

Technical Review, Markup & Validate Changes Impact

Engineering Manager Approved Revision & Close ECO

ECO approved

Designer Engineer

Received ECO Task

New Rev. model & drawing based on ECO

Engineering Manager

Approved Revision & Close ECO

New Rev. model & drawing based on ECO
DEMO
Autodesk Vault & Fusion Lifecycle
NPI workflow

Peter van Avondt
Technical Sales Specialist D&M
The RIGHT tools for the job…
... tight together
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