Bring it all together: the fusion between PDM & PLM

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AGENDA

Introduction

The Role of PDM|PLM

Combined Solutions

Integration Solution

Extended Capabilities

Summary

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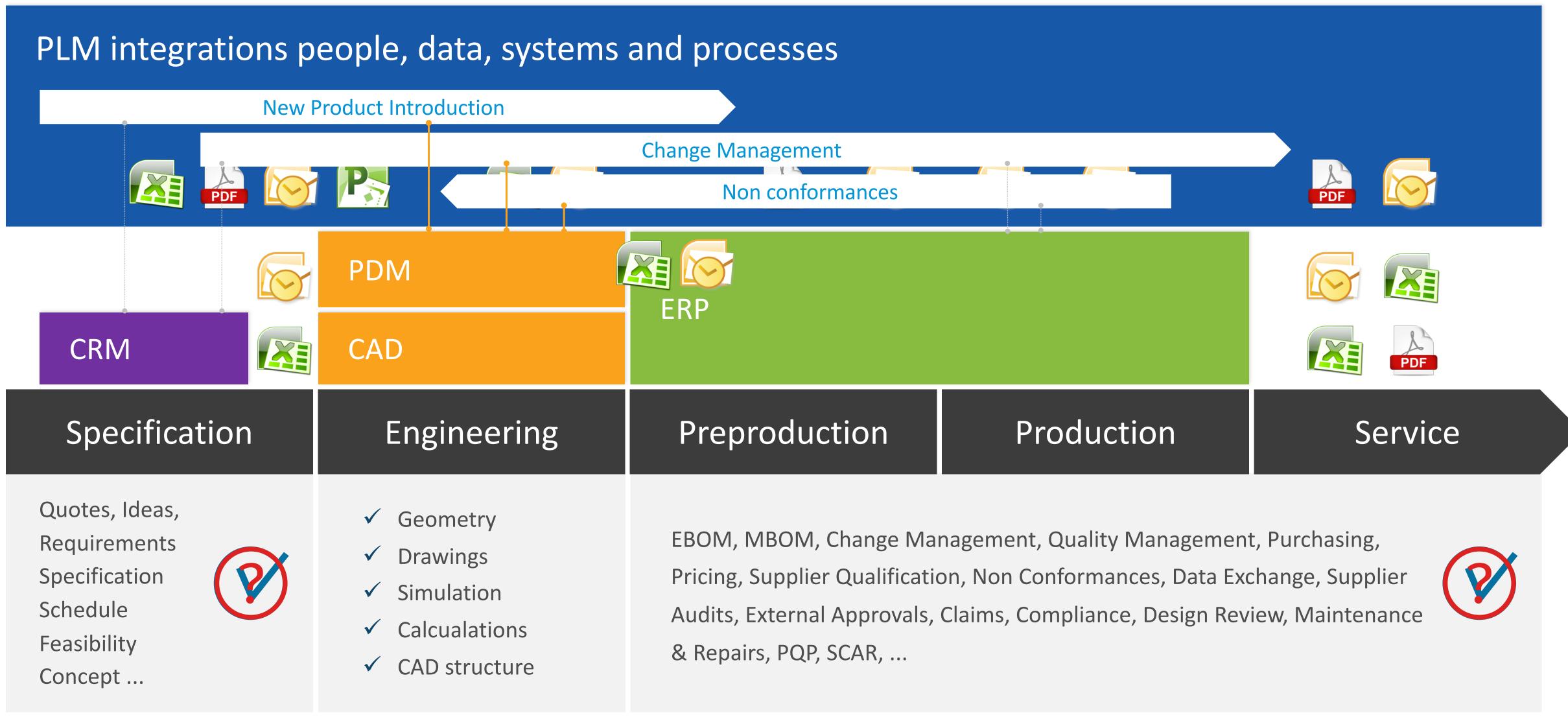








Efficient collaboration accross departments and systems





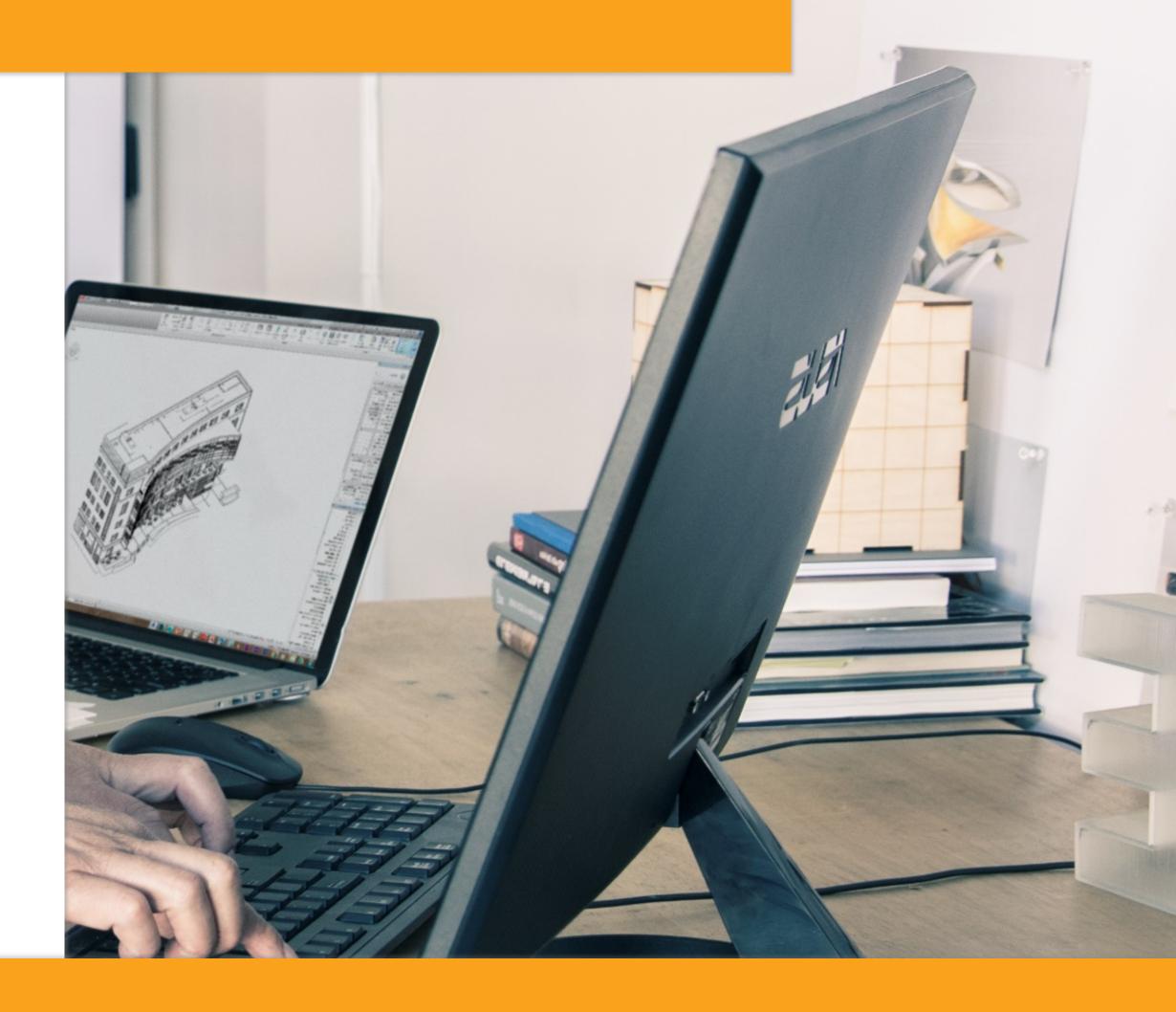
Product Data Management

Manage engineering data to enable concurrent engineering

Drawings, Models, Assemblies with metadata & related libraries

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

Owned by Engineering



Seamless integration in engineering tools is key

Product Lifecycle Management



Manage the product lifecycle **end-to-end** from early concept through engineering and production to services

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

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

Simplicity, Accessibility and Flexibility are key



Product Data Management

Engineering Data Management

Document Versioning

Seamless CAD Integration

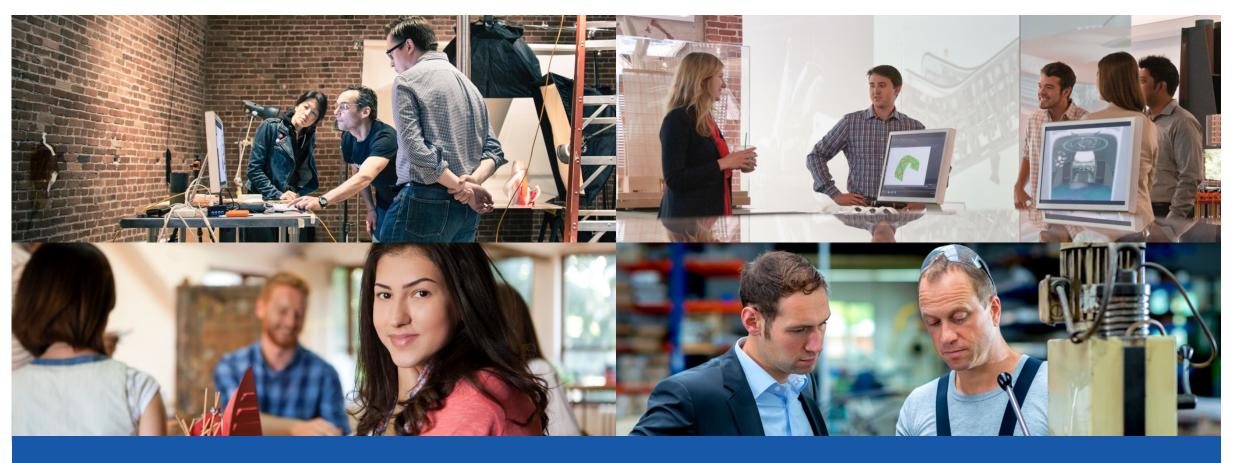
Copy Design

Bill of Documents

Bill of Materials

Engineering Change Orders

Document Centric



Product Lifecycle Management

Bill of Materials

Change Management

Non-Conformances

Quality Management

NPI

Product Costing

Supplier Collaboration

Automation & Processes





Models

Drawings

Libraries

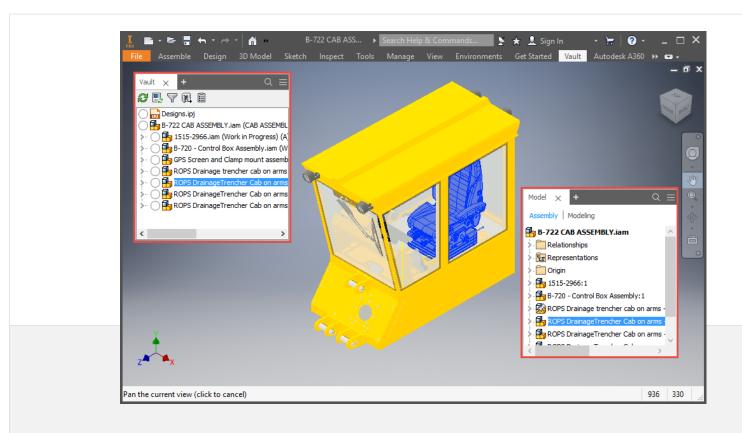


Revision Control

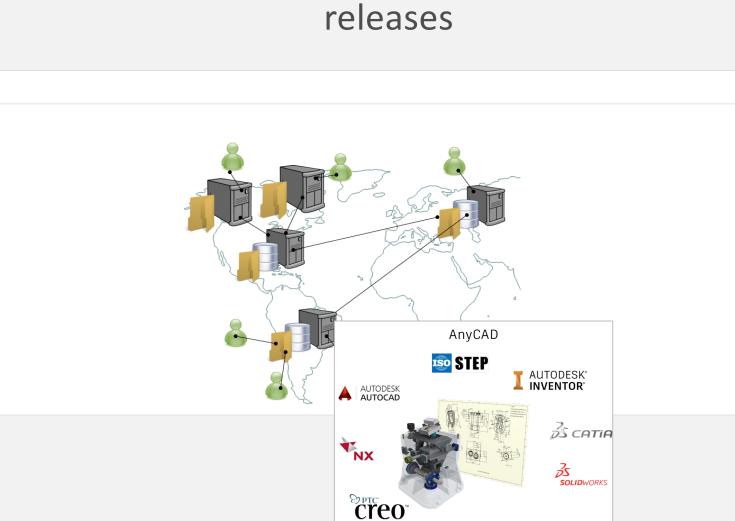
Copy Design

Job Processor





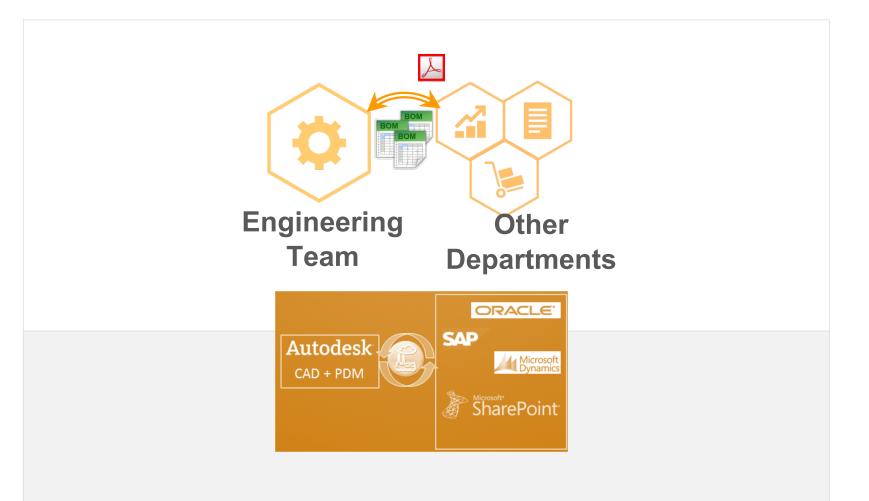
PDM and CAD must be tightly integrated to leverage best design experience & synced releases



Utilize flexible resources by connecting global sites as well as suppliers



Re-use Engineering Knowledge by delivering powerful tools and facilitate change management, tasks, requirements, bids



Connect enterprise systems to ensure smooth collaboration with other departments

BEST PDM SOLUTION

Vault Professional

Tightly integrated in Autodesk's suite of CAE tools, Vault provides a central repository for any engineering data.

Its seamless integration in the user interface of Inventor reduces data management efforts for engineers to a minimum.

Comprehensive Capabilities





Search & Reuse

Concurrent Design

Multi-CAD Integrations

Relationships Tracking

Project Organization



Revision

00000



Process

User

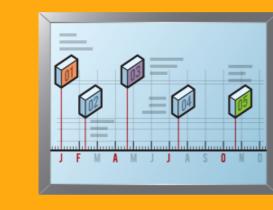
Publishing & Viewing

Content Management

Management

Approvals

Engineering Change Orders



Web Based & **Remote Access**





Security

Reporting

(a)



Multi-Site Replication



Enterprise Integrations



Product Data

Provide latest product data to all stakeholders



New Product Introduction

Bring products to market on time, budget, quality and functionality

Supplier Integration

Ensure quality, quantity and timing of deliveries by external partners







Bill of Materials

Single source of truth across multiple disciplines (Mechanic, E&E, Software)

Quality Management

Implement quality planning, quality management and quality assurance to comply with ISO standards and to prevent costly changes





Change Management

Manage and track all change activities from catalyst to implementation across all disciplines

CLOUD PLM Fusion Lifecycle

Core PLM processes are provided in a ready-to-use cloud environment, enabling a quick start and short time to value.

Using graphic administration utilities, customers can adjust these processes to custom needs or even add new business processes definitions – without the need of software migration.

Have latest product design at hand at any time



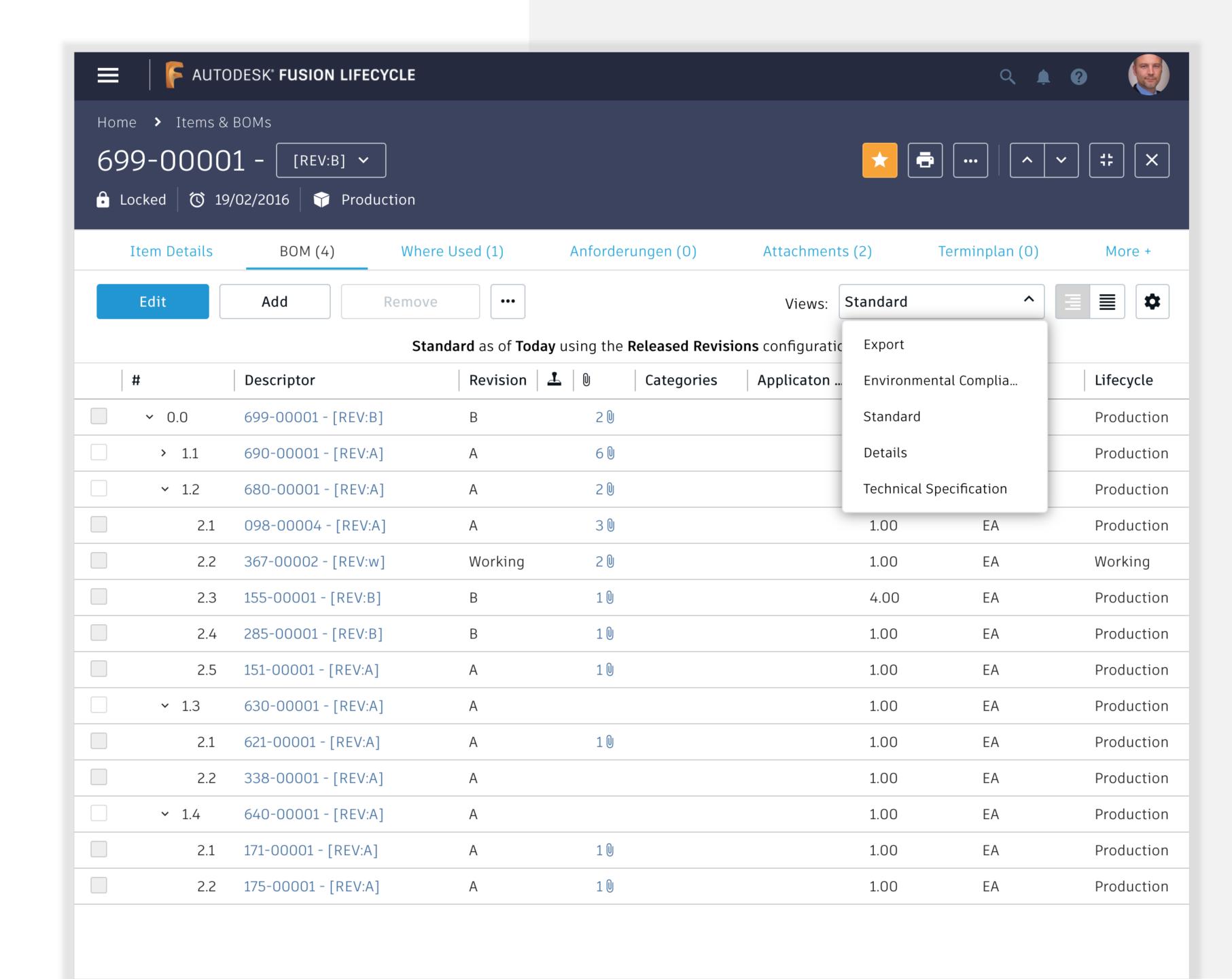
AUTODESK® FUSION LIFECYCLE



Connect all engineering disciplines



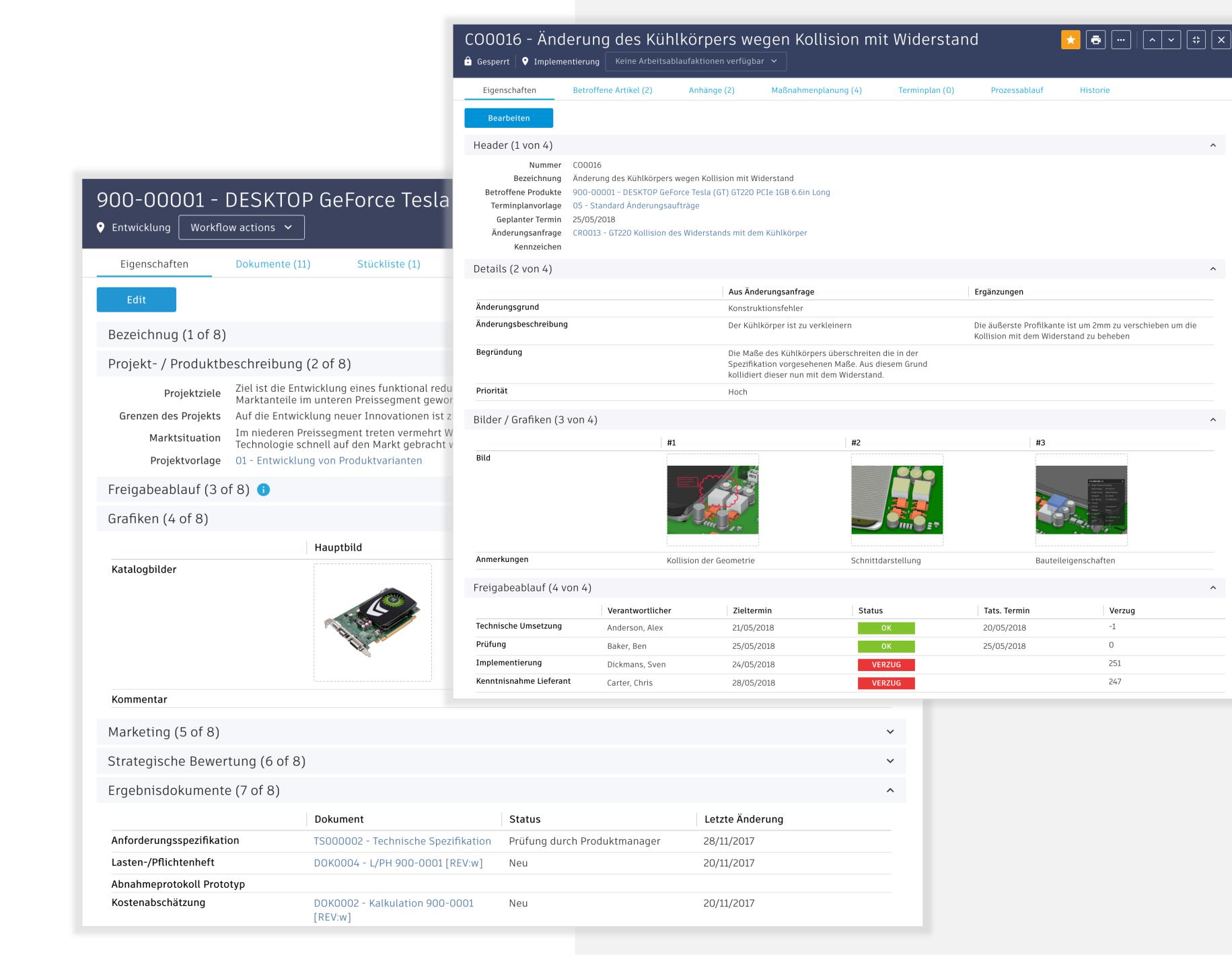
AUTODESK® FUSION LIFECYCLE



Digitize & Connect anything

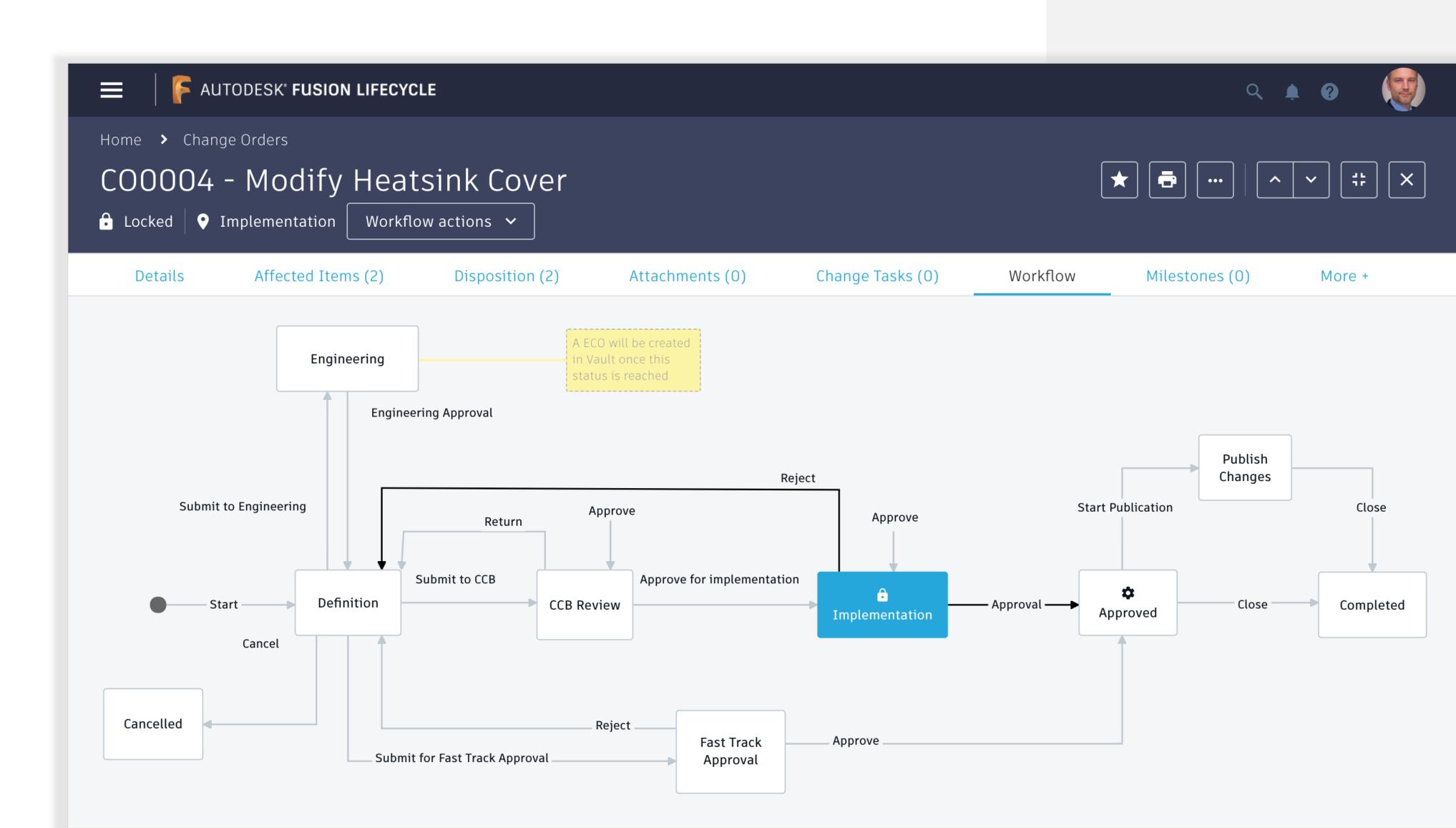


AUTODESK® FUSION LIFECYCLE



Prevent delays in business processes

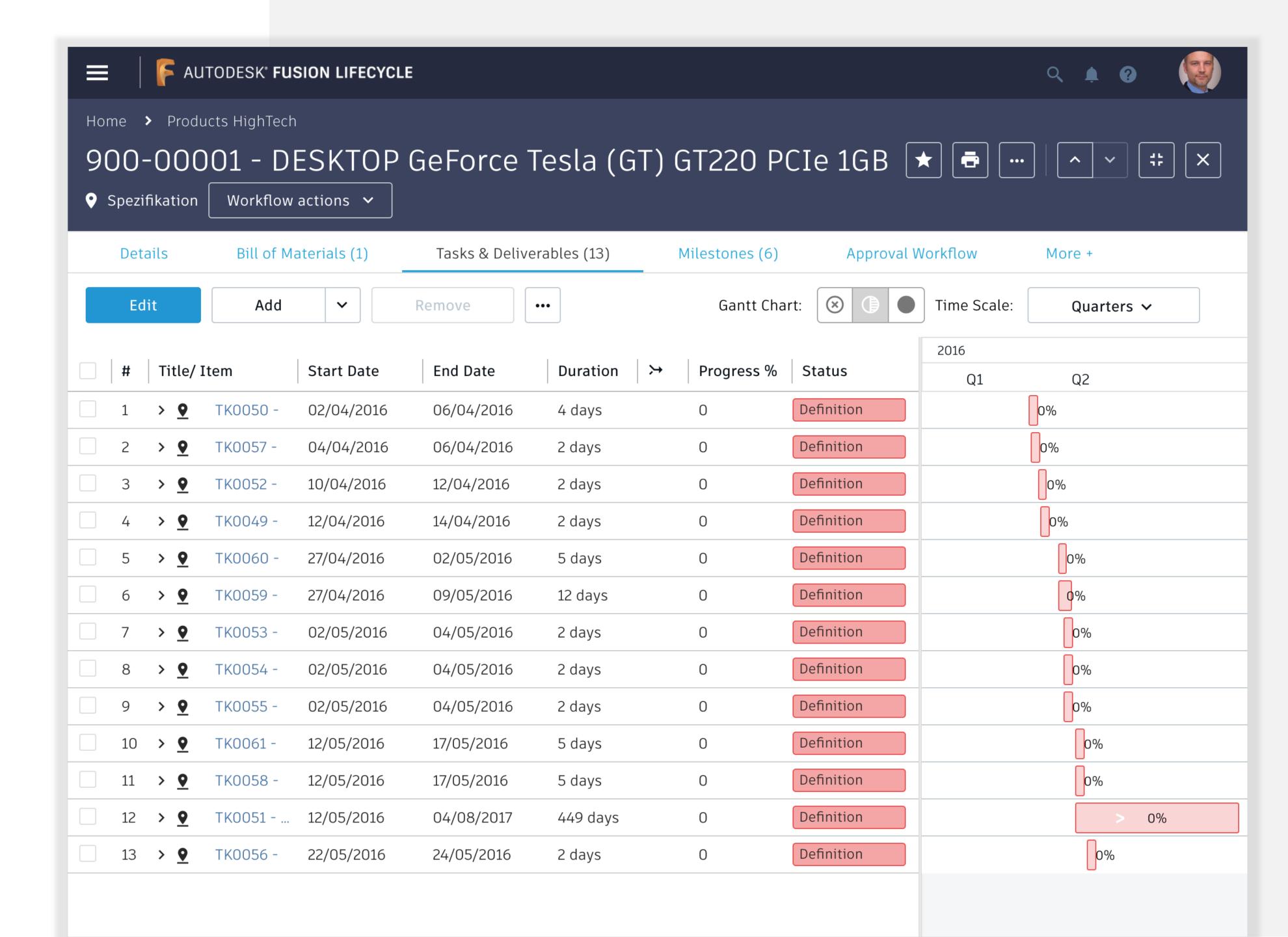




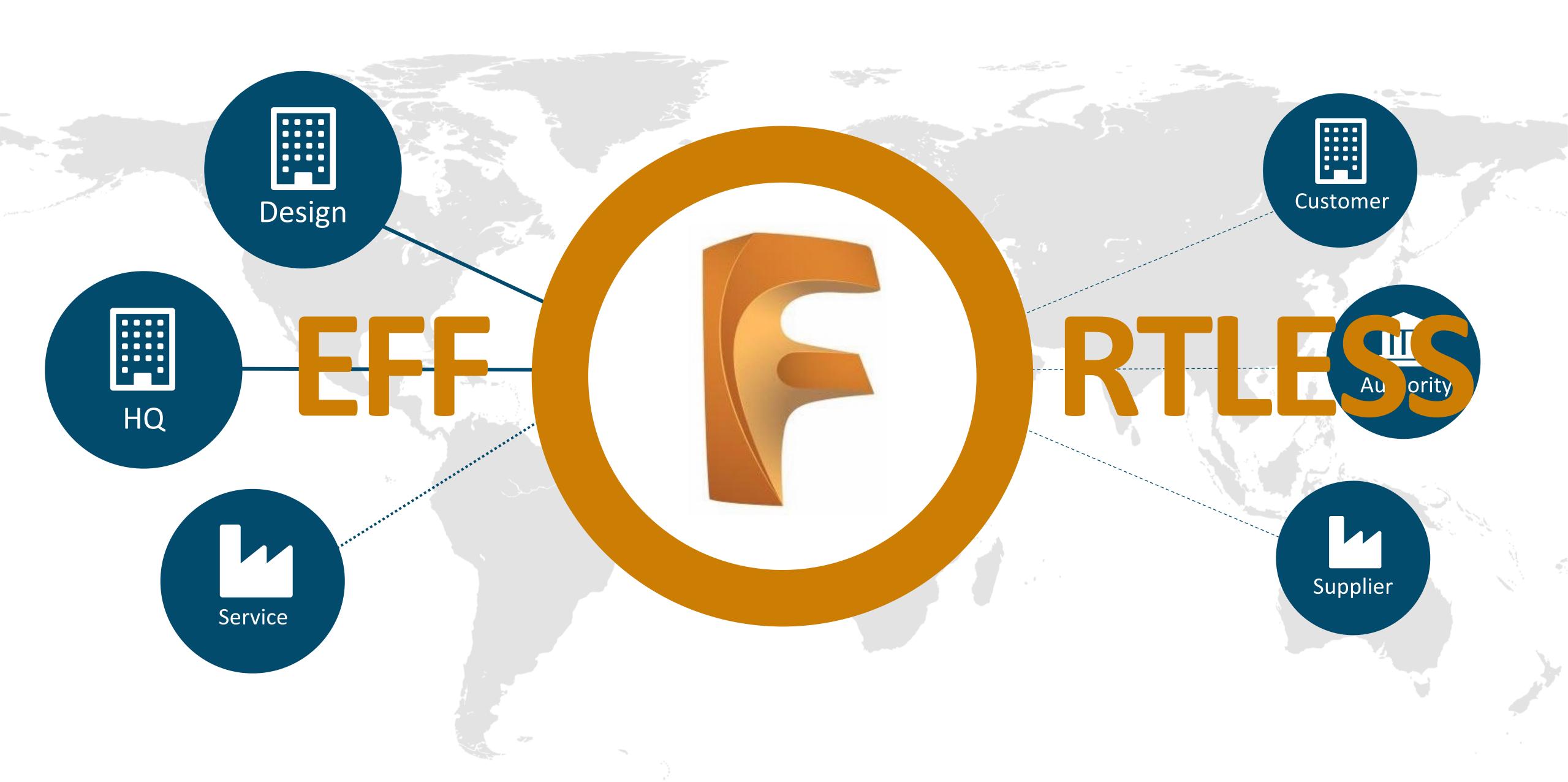
React on delays properly & on time



AUTODESK® FUSION LIFECYCLE



Efficient Global Collaboration



Smart solutions to address unique challenges



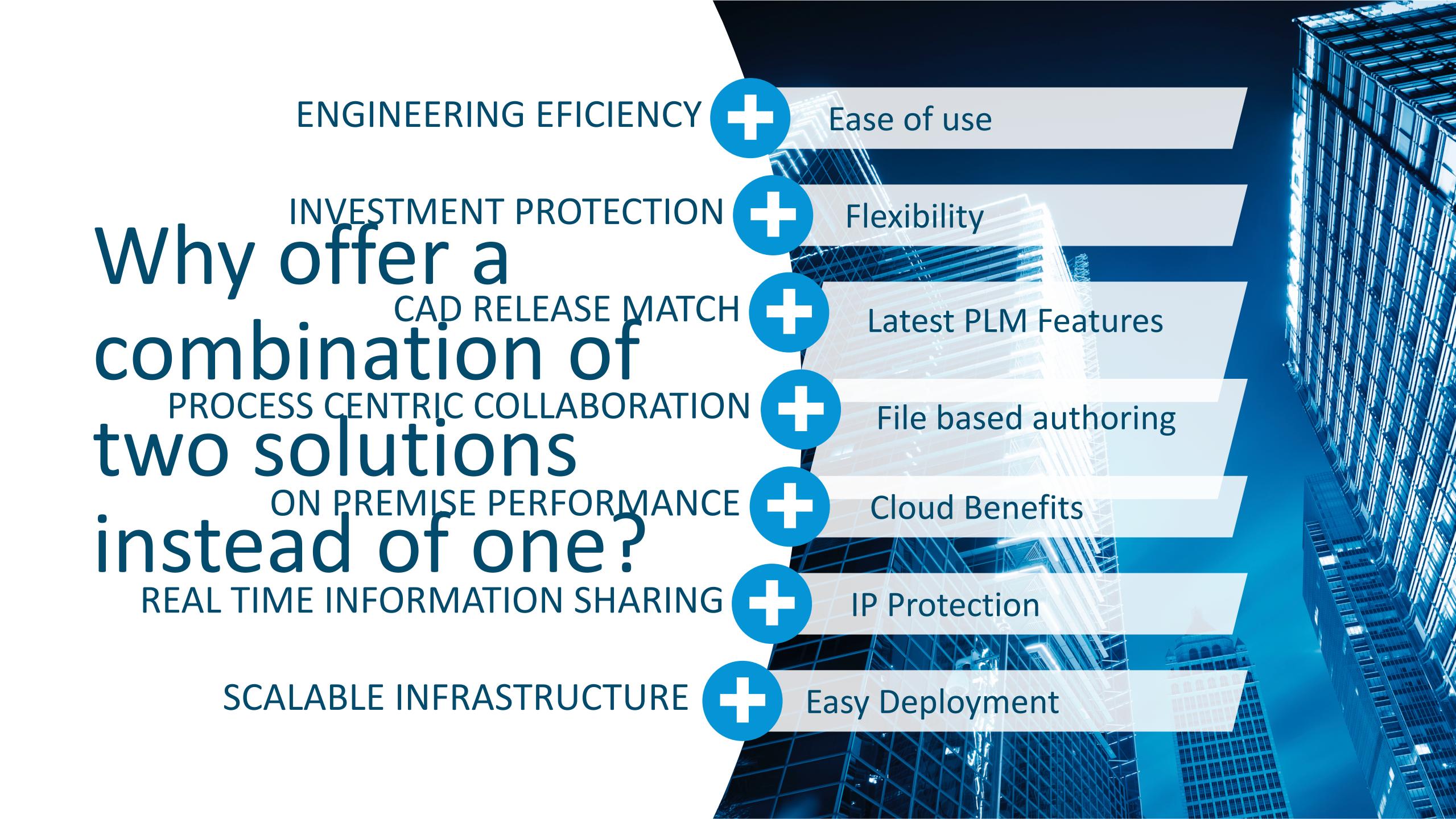


- Integrated in CAD User Interface
- Local file storage for best performance
- Best support for CAD possible
- Software release to match CAD

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

Files remain in Intranet

Global Process Efficiency



INTEGRATION

SOLUTION



Vault-FLC Connector

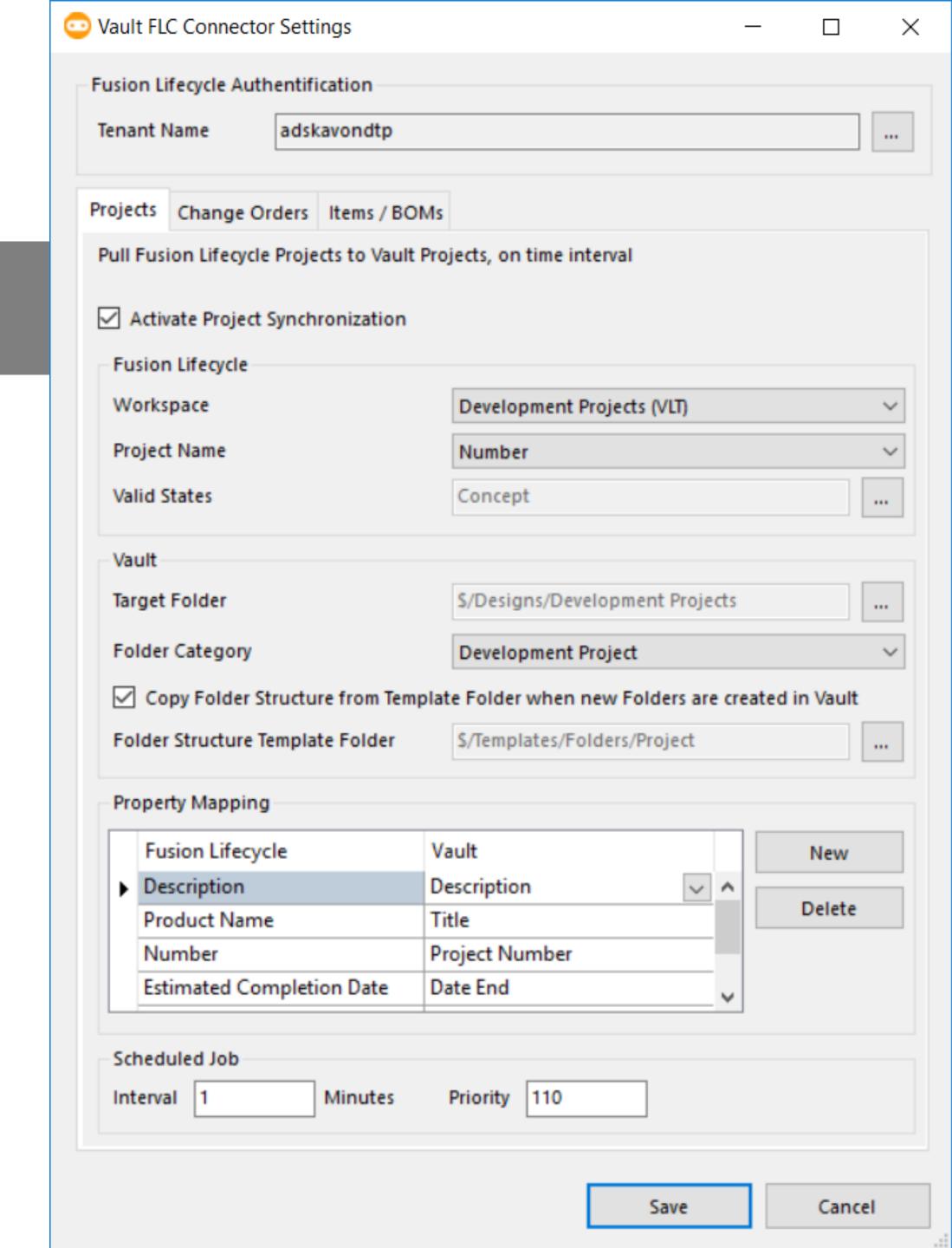
Out of the Box integration

Vault & Fusion Lifecycle Connection Use Cases

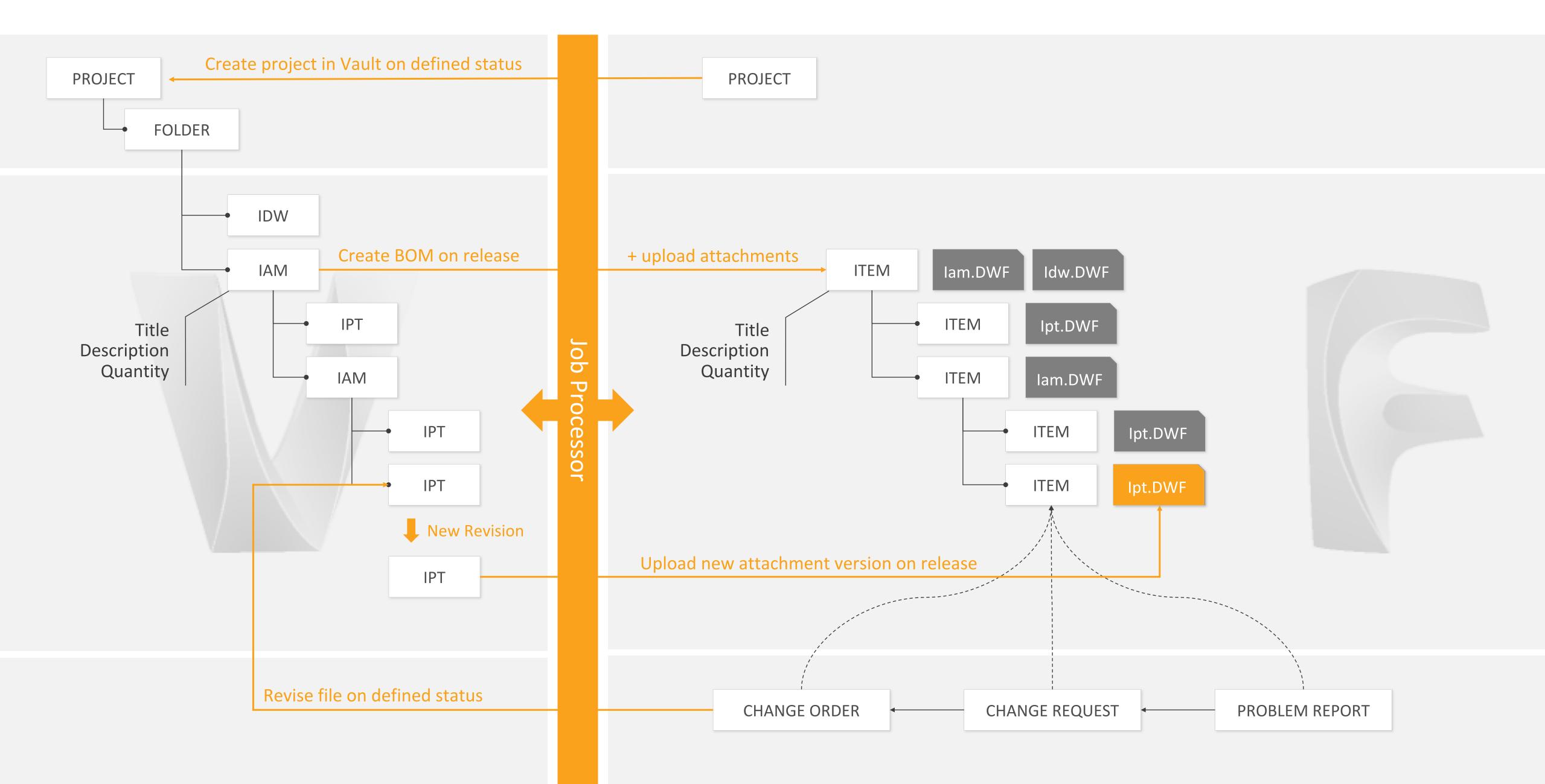
- New Product Introduction/Development
- BoM, files push to FLC
- Change Management FLC to Vault

Efficient and consistent integration

- Easy to configure
- Simple install
- Compliant with standard schemas (Forge, FLC V3 API)
- Compatibility with Vault 2019, 2020+



Standard Integration Capabilities

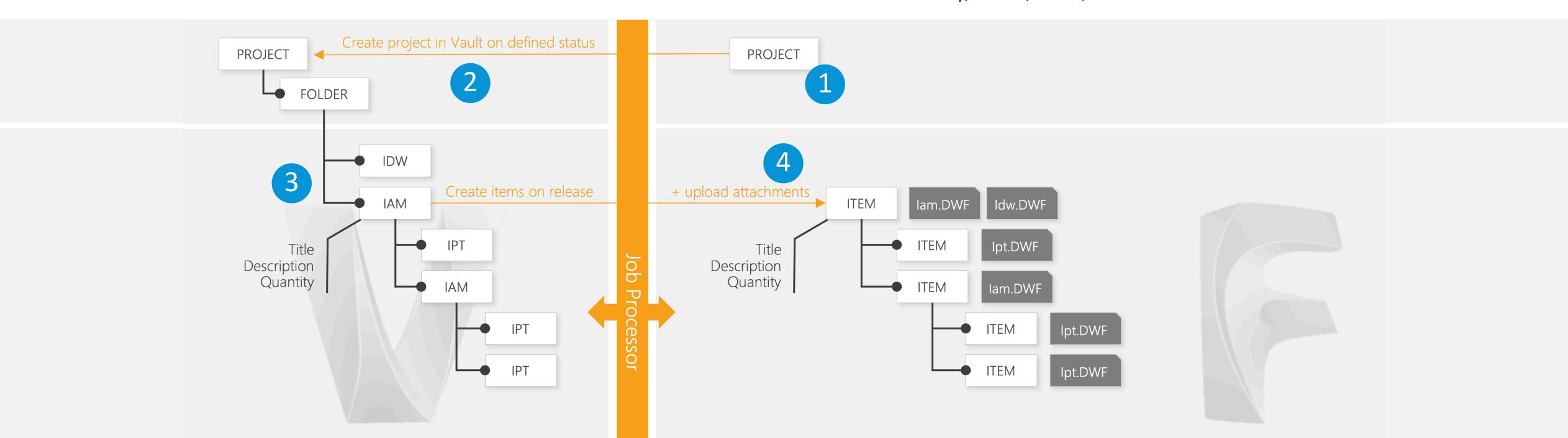


Case #1 New Product Introduction (NPI/NPD)

Fusion Lifecycle in control of the whole product development process

- 1. Idea/product/project begins in FLC
 - Follows NPI/NPD process
- 2. When "ready", FLC pushes data into Vault
 - Creates project structure
 - Shares information

- 3. Design begins, iterates, check in/out with Vault
 - New CAD data
 - Copy Design
- 4. When ready, data is pushed to FLC
 - BOM Structure, viewable (non-native) geometry
 - Qty, Titles, Desc, and attachment



New Product Introduction Workflow

Autodesk Vault & Fusion Lifecycle Connector

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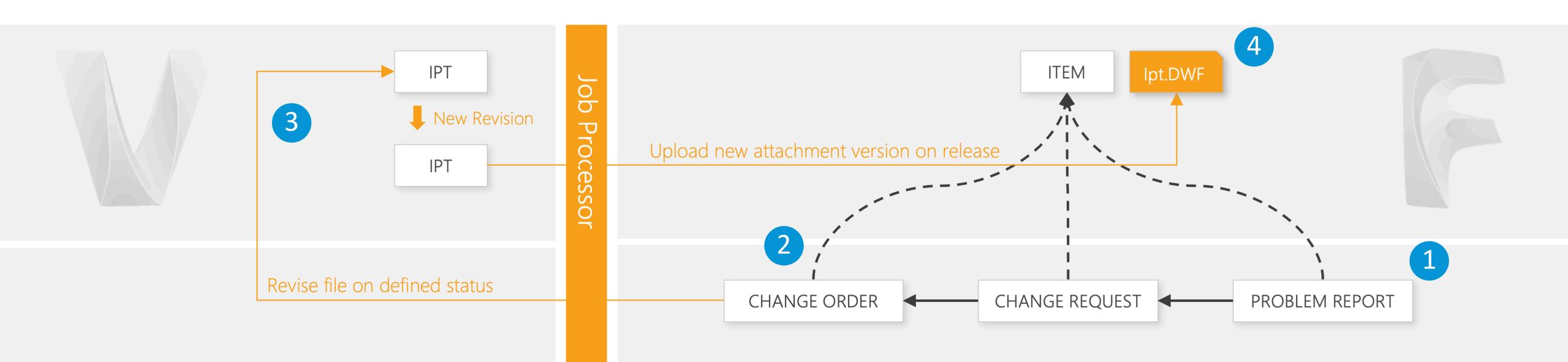


Case #2 Change Management

Closed Loop Manufacturing to Engineering

- 1. Issues from Field, Supplier, Customer, shop floor
 - Capture issues digitally
- 2. Routed through Quality to Engineering Change
 - Follow a pre-defined process
 - PR > CR > CO

- 3. Change Management & Approval with Vault
 - Revise File on CO status change
 - Now ECO's needed
- 4. Close loop Change Management
 - New Item information (Qty, Structure)
 - New viewable





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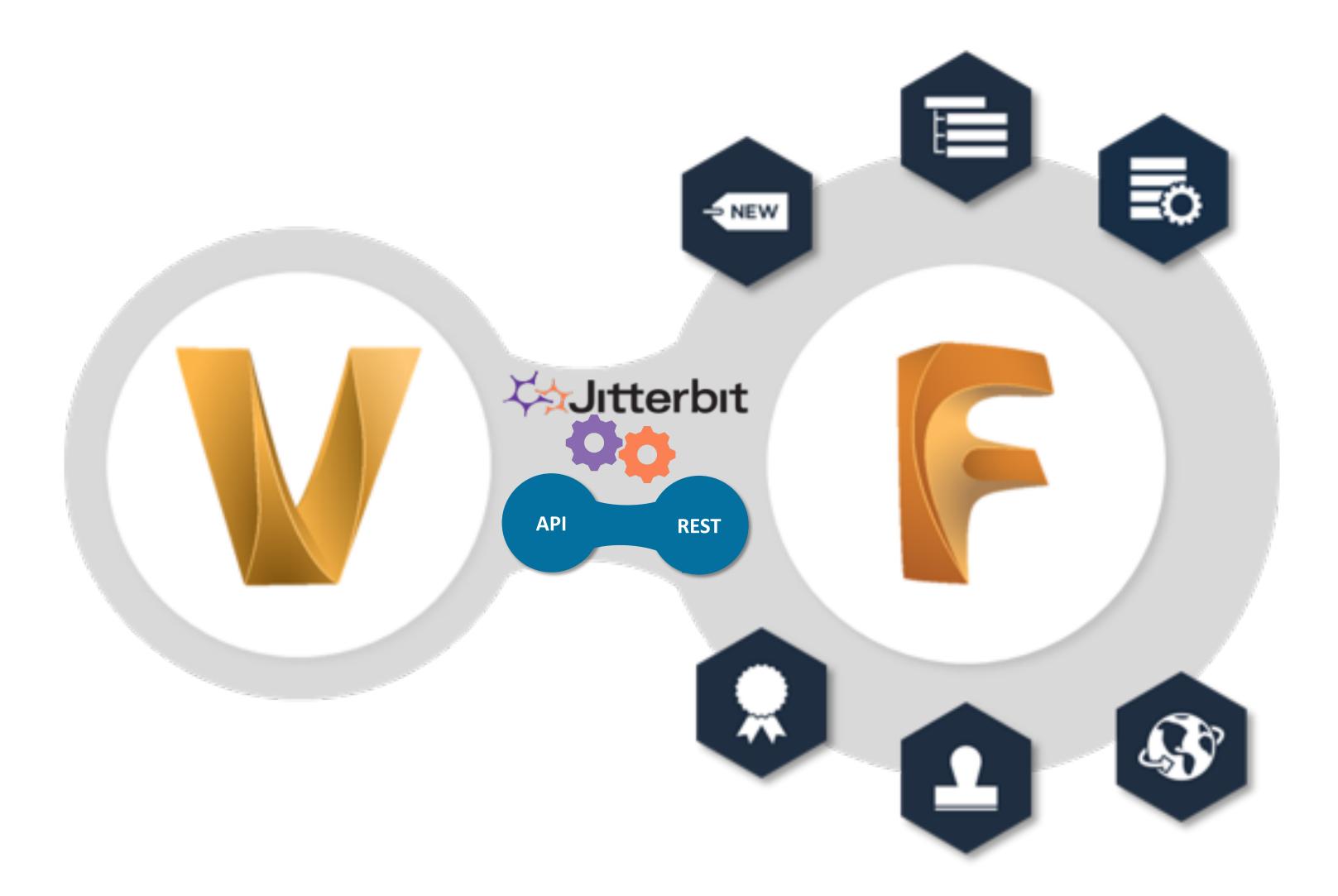
EXTENDED

CAPABILITIES



Extended Capabilities

Using Rest API or Integration Hub



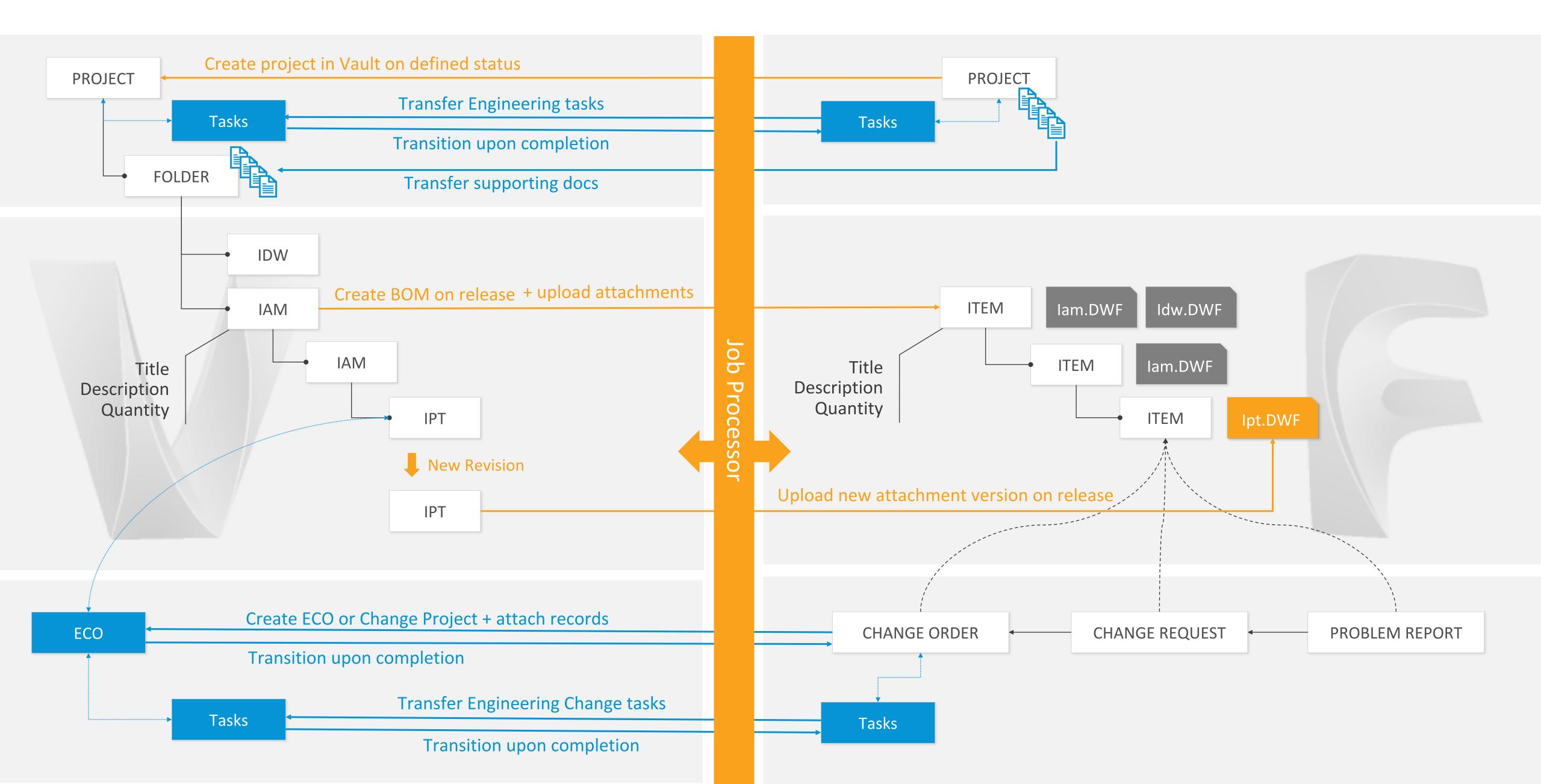
A. DevelopmentFramework (API)

- Requires Coding
- Support for On-site and On-Premise
- ➤ Use SOAP, REST

B. Integration Hub (Jitterbit)

- Little Coding
- Costly to implement
- Standard connectors
- ➤ Support for On-site and On-Premise

Extended Integration Capabilities

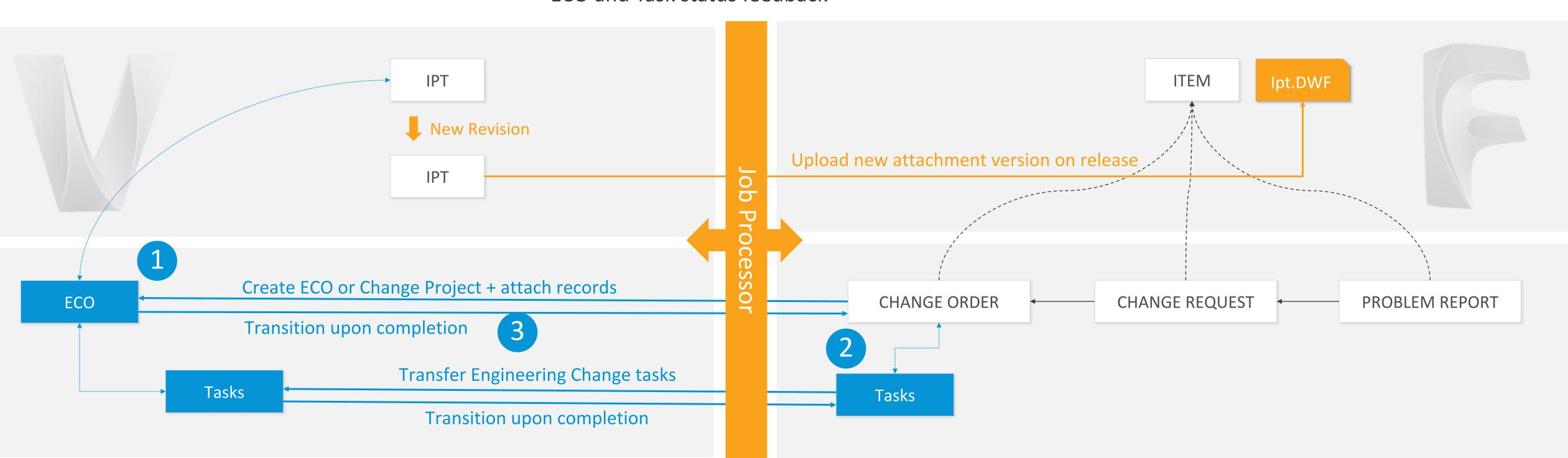


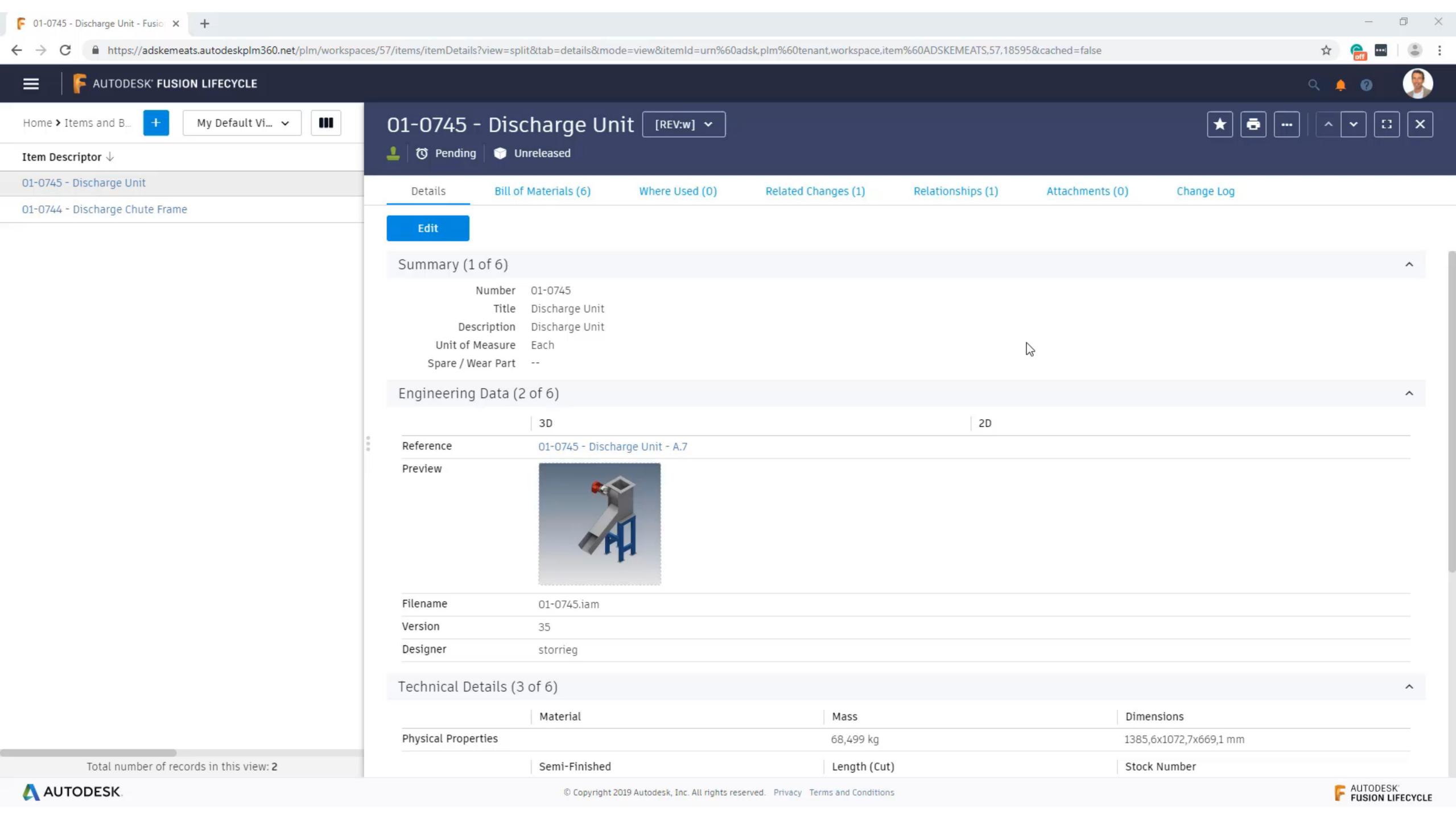
Case #3 Advanced Change Management & Engineering Task Management

Vault's Engineering Change Orders and Tasks integrated in the broader Change Management

- 1. Change Management & Approval with Vault
 - Engineering Change Order or Change Project folder
 - Collects all involved files

- 2. Engineering Task Management
 - Feed Task information to Engineers
 - Using Custom Objects in Vault
- 3. Close loop status management
 - ECO and Task status feedback

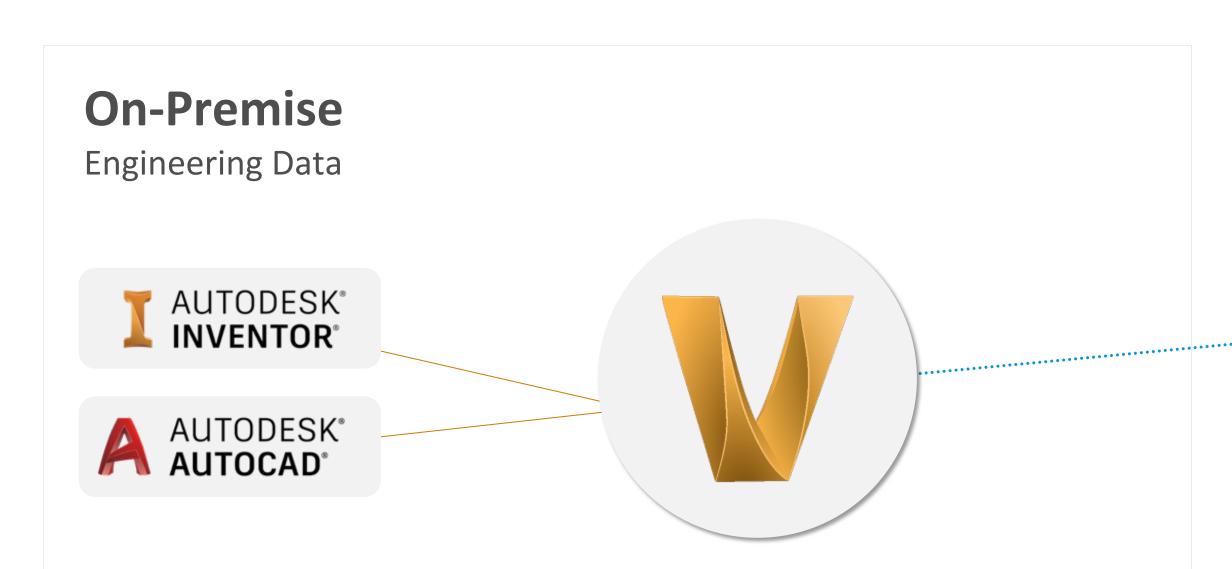




SUMMARY



Combined Best-in-class Solutions





- Integrated in CAD User Interface
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