**DASSAULT SYSTEMES**

**EXALEAD**

**3DEXPERIENCE®**

# ONEPART
# FOR MANUFACTURING
*AEROSPACE & DEFENSE*

**THE SOLUTION**

EXALEAD OnePart is a business discovery application that accelerates reuse of parts, designs, specifications, standards, test results, costing, manufacturing instructions, inspection checklists, and related documentation–helping manufactures gain rapid visibility into information hidden anywhere inside the organization.

Let's look at an example of a manufacturing director.

## MY ROLE

I am a **manufacturing director** at a leading aerospace supplier where my primary responsibility is producing manufactured parts for the company. I oversee production planning, manufacturing execution, and production control including routing, workflow, and shop floor activities. I work on a number of different programs concurrently, and operate between several facilities ensuring production targets are achieved. I am called upon to help identify replacement parts needed in production and to work with Engineering and Purchasing to estimate and quote new jobs and production materials.

My company designs and produces various mechanical systems used throughout an aircraft. We specialize in manufacturing standard parts (including fasteners, brackets, clips, piping, tubing, etc.) made up of many different materials, depending on specifications, and used throughout the industry and in the systems we produce.

## MY GOALS

**One solution** to capture and reuse latent data and knowledge located in various systems spread around the enterprise would be extremely useful for:

- **Gaining early visibility** into engineering data on parts we build.

- Accurately **identifying and reusing** substitute parts for production based on the 3D model, related data, and associated documentation.

- **Locating and reusing** similar process plans, routing sheets, and associated tooling/fixture information quickly and efficiently.

  - To help bring newly designed parts into production faster, while identifying ways to simplify manufacturing and assembly of parts.

## MY OPTIONS

- More back and forth requests to Engineering for early visibility on new data: *Inefficient approach that doesn't address the real issue of the need for greater data transparency*

- Create substitute parts from scratch: *While a new design might be made quickly, it creates costly and time-consuming work downstream, and could introduce quality risks and delays*

- Search company files for all production information needed (CAD, PLM, PDM, MES, ERP systems…): *Searching these systems individually could yield what I'm looking for, but they're not all easily accessible and I'd need to search each one for all files related to the part or process*

- Contact other colleagues: *It is unlikely that my colleagues know exactly where to find a similar part or process material; they may have been hired after the part was produced, or may have retired from the company*

## WHAT I REALLY NEED

One high-performing solution to access any 3D model, 2D drawing, process documentation, tooling designs, NC programs, inspection reports, quality certifications, ERP (part costing and supplier data), and all downstream information used to make a part or configure a process.

## ONEPART CAN HELP MY COMPANY:

- **Proactively** unlock and reuse legacy IP knowledge

- **Achieve** on-time and on-budget production objectives

- **Decrease** production line shutdowns by locating substitute parts

- **Drive** process simplification, standardization, and more best practices

- **Facilitate** collaboration between Manufacturing, Engineering and Procurement

- **Boost** competiveness and continuous improvement

## HOW IT MAKES MY JOB BETTER

- **Less time** searching, more time leading

- **Dramatic increase** in productivity and efficiency

- **Dynamic faceted navigation** to mine data my way (e.g. via material, mechanical feature)

- **Side-by-side comparison** of tools, molds, or parts speeds reuse decisions

- **Match** manufacturing and assembly documentation with a reusable part

- **Social tagging** of master or obsolete parts for cross-functional collaboration

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