

EXALEAD ONEPART

FIND AND REUSE EXISTING PARTS,
2D/3D DESIGNS AND RELATED DOCUMENTATION,
AND REDUCE DUPLICATES



EXALEAD OnePart is a business discovery application that accelerates reuse of parts, designs, specifications, standards, test results and related data for engineering and manufacturing activities. Leveraging the proven Web semantics, analytics, mashup, and indexing technologies of EXALEAD CloudView™, OnePart locates information from multiple sources and makes it available instantly.

An innovative, intuitive way to boost new product development and productivity by reusing legacy information assets

Speed new product development and productivity

TODAY'S BUSINESS CHALLENGES

New product introduction is about making critical decisions. From design to manufacturing, each of these steps introduces significant costs into your company. Because searching for parts is very time consuming and the results may lack the information required to make decisions, **engineers are designing more and more new parts** every day. Why can't they find and reuse similar or equivalent parts that already exist inside your company's legacy data assets?

Without an ultra-efficient tool to rapidly find and compare similar parts hidden inside data sources and silos scattered throughout the company, design engineers simply choose to recreate the part rather than spend unproductive time searching. Although they may not realize it, **recreating new parts impacts downstream processes and company costs**. Substantial time and costs are incurred if you need to acquire or produce new parts, leading to more production procedures, quality controls, and inventory to stock.

THE SOLUTION

With EXALEAD OnePart, engineers, managers, technicians, and procurement specialists can quickly and easily find and reuse existing parts, product designs and other related relevant information located anywhere inside the organization, even beyond obvious PDM and PLM repositories.

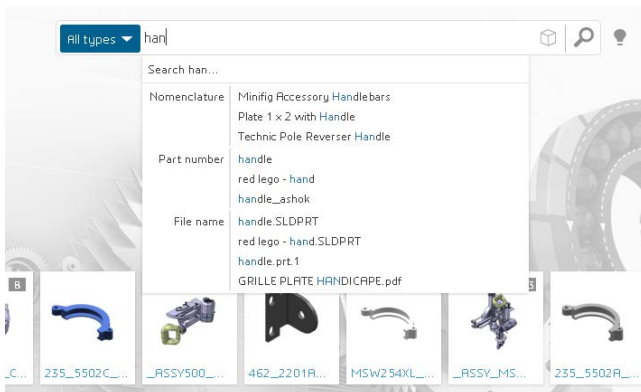
The result: **optimized reuse of parts**, designs and related documentation, thus accelerating product development and delivery and decreasing design, material, manufacturing, and storage costs while increasing revenue.

HOW DOES IT WORK?

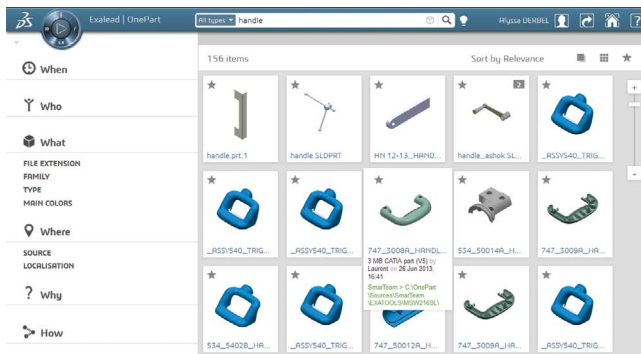
Based on indexing capabilities, OnePart gathers in one efficient repository all information relevant for the user. The solution automatically updates any file modifications that occur in authoring tools. Its intuitive, Web-like interface makes it easy for designers and engineers to find existing parts **instantly** so they can decide whether to reuse. With just a few clicks, users can explore legacy parts, technical and business information and related 2D/3D designs, gaining immediate insight into a vast amount of previously hidden data. They can further refine their search using side-by-side, semantic and shape comparisons to **identify the right part**. To get a complete view of the situation, the user can drill down and navigate into important related documentation like specifications, testing, validation, and certification material in multiple formats (such as .xls & .pdf).

KEY CAPABILITIES

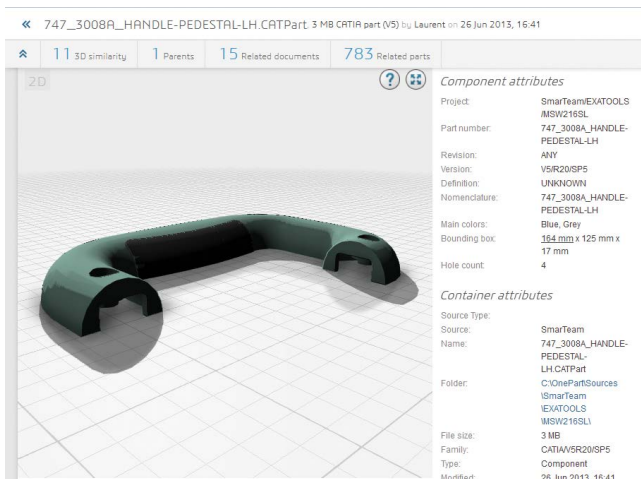
- Search for parts, assemblies, drawings, documents, images in **more than 200 formats**
- **Access** to many different data sources: File systems, SOLIDWORKS PDM Professional, ENOVIA SmarTeam, ENOVIA Designer Central, and other PDMs, ERPs and databases
- **Full-text search** with auto-completion of user queries, advanced search, plus dynamic and disjunctive faceted search
- **3D mechanical feature** mining (locating parts based on holes, pads, grooves, and other characteristics)
- Part discovery through **3D shape similarity**
- **Analytics view** with clickable, real-time charts allows for unprecedented insight into data
- Automatic **grouping of identical files**
- **User tagging** of parts and documents, for easy retrieval and lightweight workflow
- **Multi-lingual** user interface in English, French, German and Japanese
- Declarative, audited **security mechanisms** ensure that users only see content they are entitled to see



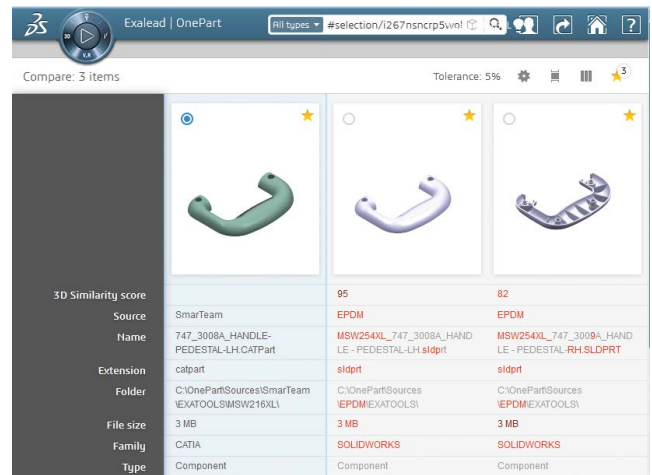
Federated search from a single full-text search bar includes auto-completion, wild card, spell check, multi-suggest



In-Context Information Access and immediate visualization, regardless of format or location. **Faceted Navigation** to accelerate find and discovery actions



Deep Data Search on any 2D/3D part or assembly plus a powerful 3D part viewer



Side-by-Side Part Comparison based on metadata and shape similarity, with color coded highlight of differences, user choice of reference parts, and multiple criteria sorting

CUSTOMER BENEFITS

- Reuse 2D/3D assets from legacy data immediately
- Repurpose past designs hidden from view
- Speed ramp-up time for new projects
- ▶ **Decrease Duplicate Part Proliferation and Increase New Product Development Agility**
- Leverage past knowledge to enhance products
- Reuse proven and qualified designs and parts
- Make decisions based on part's related documentation
- ▶ **Improve Quality and Decrease Risk**
- Avoid creating duplicate designs and parts
- Avoid increasing costs to qualify and manufacture existing parts
- Accelerate downstream release processing and logistics
- Decrease redundant inventory and support
- Quickly identify existing alternative parts
- ▶ **Lower Costs and Free Up Working Capital**

"EXALEAD is a game-changing tool for us to be able to prioritize, quickly search and reuse our existing design database using all attributes of the part including the 3D model metadata. EXALEAD allows us to leverage our investment in 3D design and reduce our overall engineering costs and timing for custom design."

Chris Weiss
Vice President of Engineering
The Knapheide Manufacturing Company

REDUCE DUPLICATE PARTS REVEAL HIDDEN ASSETS REUSE LEGACY PARTS

GOING ONE STEP FURTHER: ONEPART REDUCE

EXALEAD OnePart Reduce introduces **a new way to work**, focused on **classifying and deduplicating existing parts**, thus decreasing legacy parts, simplifying the system, and cutting unnecessary costs tied up in stock.

- **Classification:** With a global view of all legacy systems, quality and method engineers are able to build unique clusters of parts by assembly, project or company-wide. This categorization is made up of part families and sub-families. For each of those, intuitive comparison tools specify the reference parts for future projects and parts to be phased out.

A single representative part enables the propagation of the information across all the similar parts in the family. Thus all parts inherit the family name. Classification of parts by family facilitates part searching using OnePart.

- **Deduplication:** Once all the parts in the family are classified and specific parts can be tagged as either the master, alternate, or obsolete, the result is propagated into OnePart and the 3DEXPERIENCE platform for reuse, and can be easily sent to the PDM and ERP systems for efficient stock management. Obsolete and duplicate parts can be removed from the system, avoiding the intensive manual effort required in the past.

With OnePart Reduce, the part decision-making process is smoother because parts can be better managed in the future, saving time and money.

EXALEAD ONEPART REDUCE HELPS:

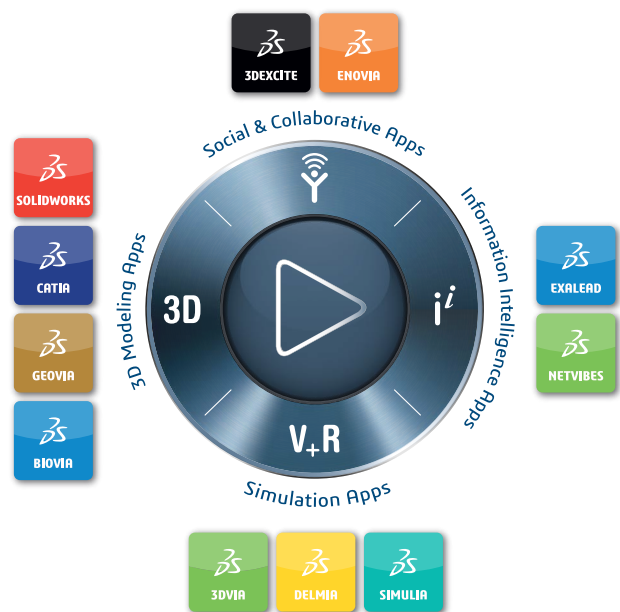
- Identify and reduce duplicate parts at scale
- Simplify clustering of parts for Procurement departments
- Free up working capital

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Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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