What is Autodesk Vault, and why do I need it?

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Class summary

Your senior professionals may be spending as much as 1/3 of their day handling basic document management tasks.

This session discusses how Autodesk Vault Professional can not only eliminate that overhead, but actively improve your workflow processes to reduce project completion times and dramatically increase profitability.

Key learning objectives

At the end of this class, you will be able to:

- Understand costs, and scheduling impact, related to ineffective data management
- Understand how use of metadata, fast search, lifecycles and single source file structures reduce costs
- Explain the benefits of maintaining a single, organized, structure for all design, contract, specifications, emails, and related documents
- Recognize the benefits of working with Engineering Change Orders (ECO) in Vault Professional
- Recognize the benefits of working with Item Masters in Vault professional

AMS
CAD + CAFM SOLUTIONS

Quick Facts

- AMS is a leading provider of software and targeted consulting services since 1987.

- Authorized Autodesk Reseller
  Data Management | Product Design & Manufacturing | Architecture | Civil Infrastructure
- Certified Autodesk Training Center
- Certified Autodesk Developer
- Autodesk Advanced Consulting Accreditation
- Advanced Product Support Accreditation

Johnson & Johnson

Novartis Pharmaceuticals

Saint-Gobain

Pfizer

Mars Chocolate

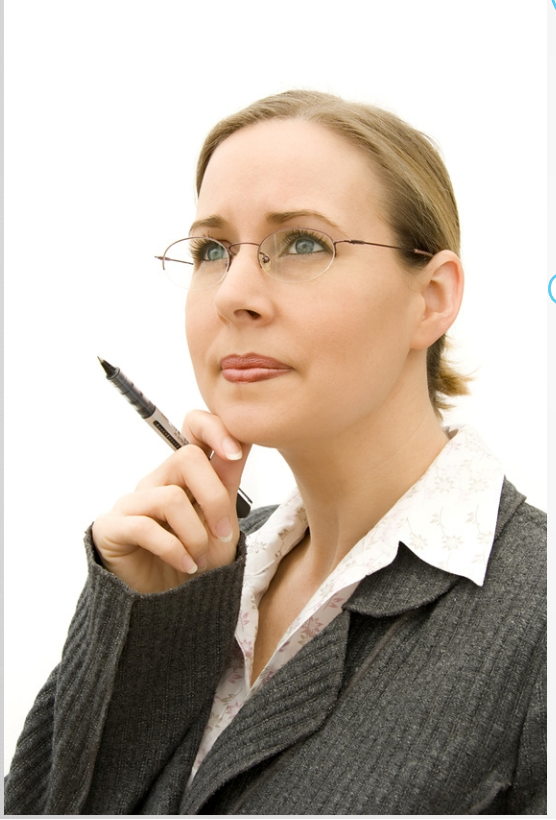


About the Speaker:

James Coppinger *is the Director of AEC, for* ***AMS CAD + CAFM Solutions****, specializing in the AEC fields, with a strong focus on document management and the benefits it can bring to clients in those industries.*

Prior to joining AMS, James worked for twelve years as Director of CAD/Technical Development at one of the largest civil engineering firms on the East Coast of the United States. With over 25 years in the CAD industry, working for multiple disciplines, James brings both extensive technical skills and solid understanding of real world business concerns to any CAD discussion.

What is this “Data Management” thing?



What exactly is data management?

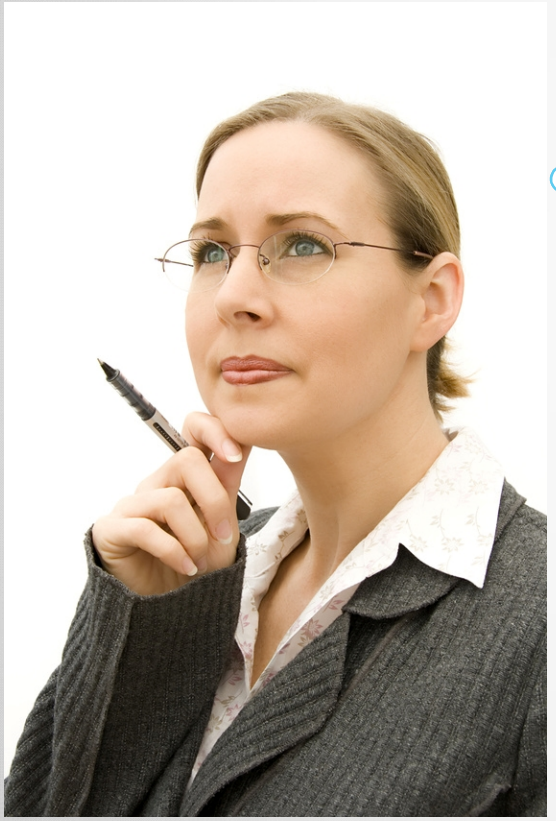
Most people think of Engineering Data Management (EDM) as software that lets you organize your files and add some extra metadata to them.

EDM software lets you open older versions of your files, without having to wait hours for I.T. to find and restore them from archive

EDM lets you restrict the ability to delete, or move, files to a handful of your most reliable employees.

EDM systems move your files into a restricted database. That removes standard OS file access from the equation, so users can't bypass all the controls you put in place

Ok, I get EDM, but what is Vault?



What exactly is Autodesk Vault?

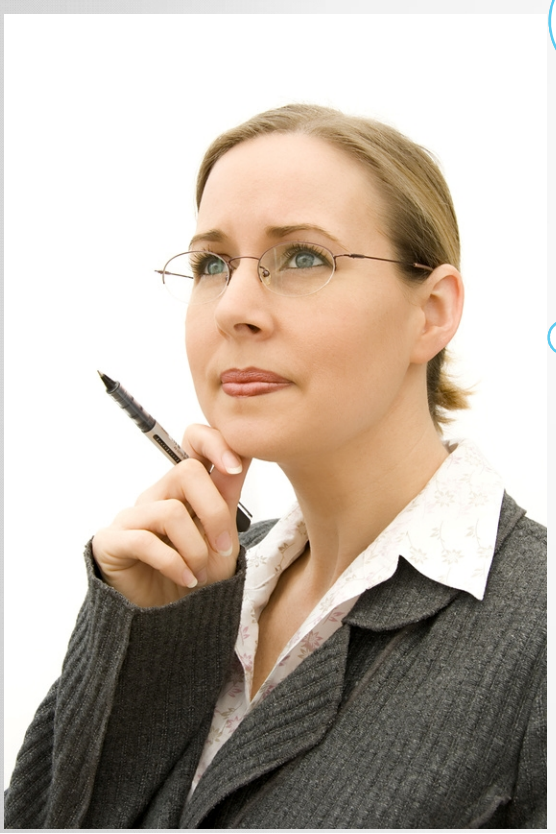
Autodesk Vault data management software helps organize, manage, and track data creation and documentation processes for design teams.

Vault gives you more control over design data with revision management capabilities.

Quickly find and reuse data to more easily manage your design and engineering information.

With data replication, you can scale from locally managed projects to globally distributed enterprises.

Vault offers easy administration, configuration, and scalability.



Come on, Vault can't really increase my revenue . . . can it?

How Does Vault Increase My Revenue?

> " . . . *the typical knowledge worker spends about 2.5 hours per day, or roughly 30% of the workday, searching for information*."
>
> *IDC – "The High Cost of Not Finding Information"*

Check the math:
A firm with only 30 employees, with an average salary of $50,000 per year is losing (30 X $50,000 X .30) = **$450,000 per year**

That's just in time spent searching for files, and workers find the files they need, ***less than 50% of the time***!

How Does Vault Increase My Revenue?

"*Time wasted in document creation and management activities costs organizations $9,071.00 per information worker per year*"

IDC - "Bridging the Information Worker Productivity Gap"

What happens when your workers can't find the document they need? They either spend hours having IT find and restore from backups, or they just re-create it!

Do the math for the same 30 person firm:(30 X $9,071.00) = **$272,130.00 per year**

How Does Vault Increase My Revenue?

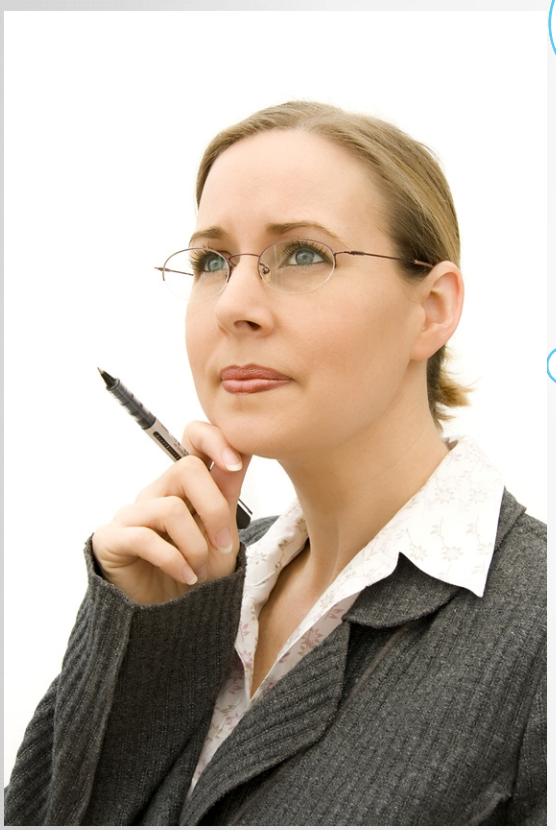
With just those two “minor” problems, our small, 30 person, firm is losing: **$722,130.00 each year**

Now just imagine the costs for a larger firm with 100, 200 . . . even 500, employees!

Those numbers alone tell you why you need an EDM system!

“While the costs of not finding information are enormous, they are hidden within the enterprise, and therefore they are rarely perceived as having an impact on the bottom line. Decisions are usually information problems. If they are made with poor or erroneous information, then they put the life of the enterprise at stake.”

IDC – “The High Cost of Not Finding Information



Wow, that's a lot of money! Where else can Vault improve my profits?

How Does Vault Increase My Revenue?

The Return On Investment (ROI) of investing in an electronic document management (EDM) system can be as high as 600%

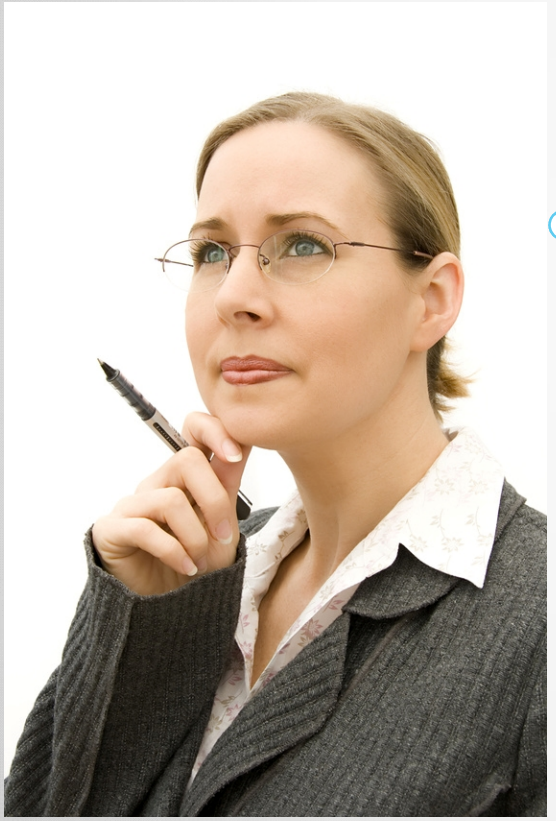
IDC – "The High Cost of Not Finding Information"

ROI for a value added process like EDM are often hard to put exact figures to, but some of the more easily quantified benefits are:

- ***Faster project "time to completion"***
- ***Increased sales***
- ***Decreased time in answering inquiries***
- ***Decreased time in requests for help***
- ***Reduced document search time***
- ***Eliminate document overwrite/data loss***
- ***Reduced IT backup/restoration times & storage costs***

Vault can return up to 6X your investment and that doesn't even include the "intangible" benefits!

What do you mean by “Intangible Benefits”?



What are Vault's "Intangibles"?

"Measuring return on investment (ROI) for improved search and retrieval or, indeed, for a complete enterprise information system is not a precise science. While costs such as software, additional hardware, or staff training can be estimated fairly precisely, benefits can be both tangible and intangible."

IDC – "The High Cost of Not Finding Information"

Intangible benefits may be hard to add specific dollar figures to, but even a quick glance at them shows a staggering potential for eliminating loss and increasing revenue:

- ***Better information for decision making***
- ***Fewer poor decisions made within the enterprise***
- ***Decrease in duplicated efforts***
- ***Traceable Change Order process for legal protections***
- ***Increased collaboration between design teams***

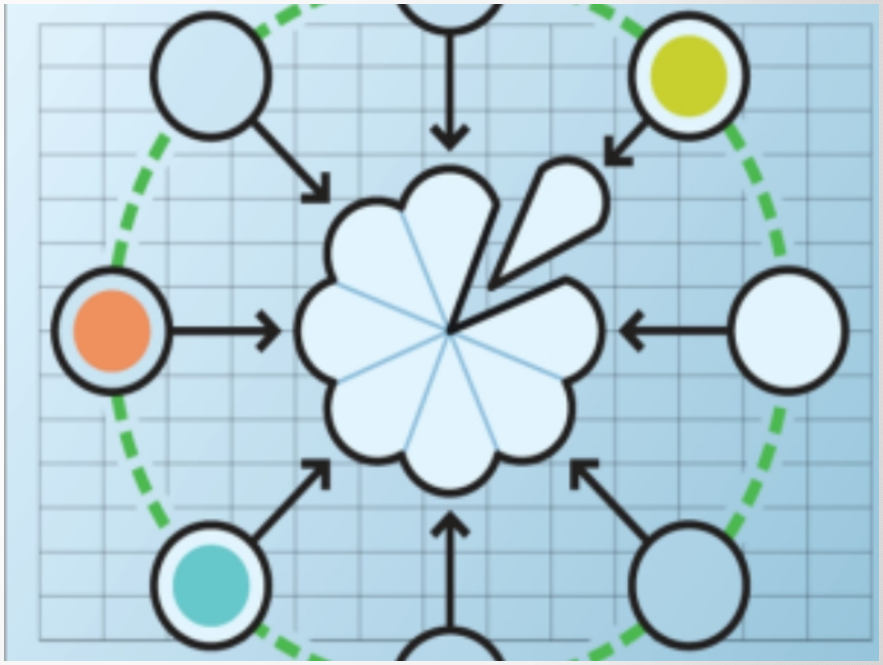


I definitely see the revenue impact! What else can Vault do for my firm?

With Vault, You Can - Centrally Manage Project Data

Easily create, organize, and share project information

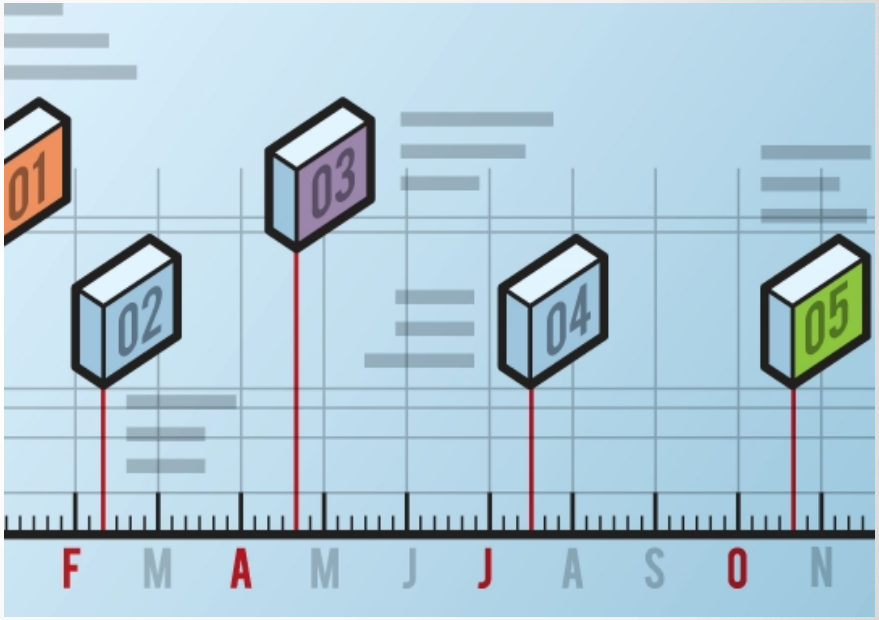
- **Enable collaborative design workflows**
- **Manage all project data in any file format**
- **Integrate with Microsoft® Office and Outlook®**
- **Secure access for team members**



With Vault, You Can - Capture History and Milestones

Automatically track evolution and important milestones

- **Track design and project history**
- **Quickly revert to previous designs at any time**
- **Capture important milestones for a complete and accurate record**



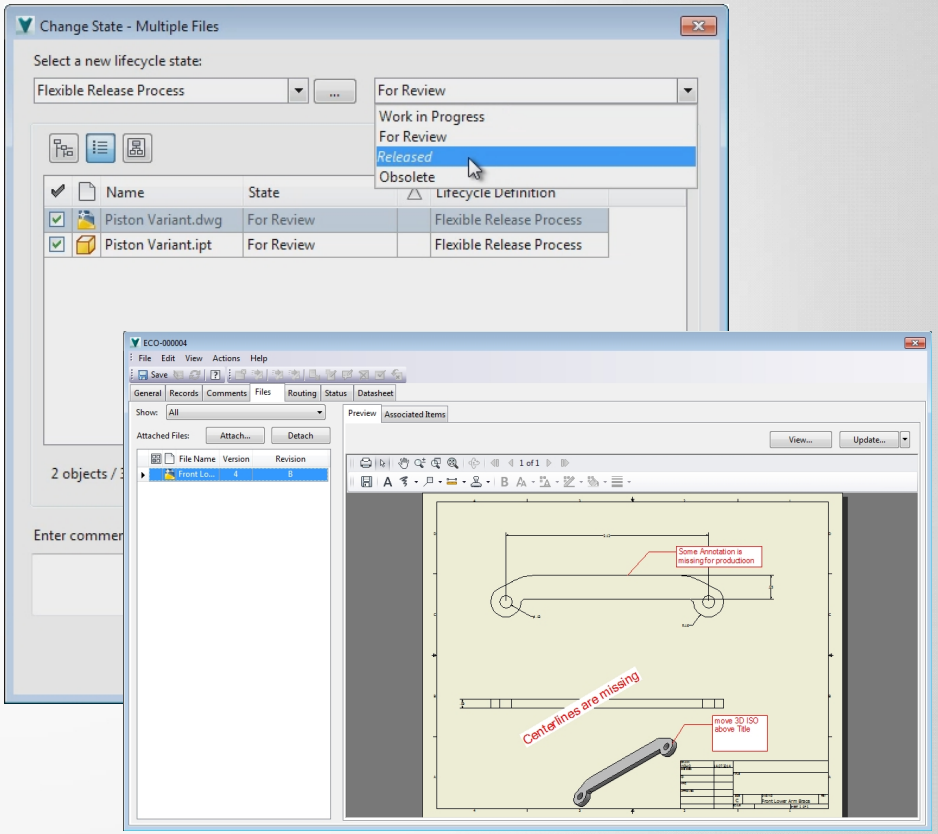
Participate in change & release processes

Modify lifecycle states

Attach design markups and initiate ECOs

Review and approve

Applies to files and items



Item Masters

Connecting Engineering to Manufacturing

Autodesk Vault improves the efficiency of the design to manufacturing process:

- Create BOM's directly from CAD models
- Exchange data with ERP systems
- Improve design costing with accurate purchasing and inventory management
- Maintain accuracy of materials, quantities, and other required properties
- Automate change order processes
- Easily access data from the shop floor



QUESTIONS?



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