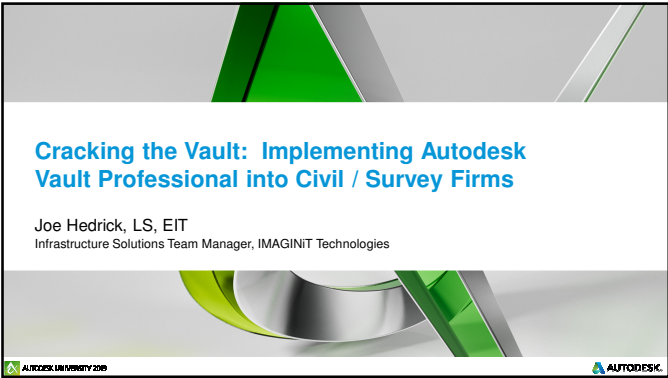




Cracking the Vault: Implementing Autodesk Vault Professional into Civil / Survey Firms

Joe Hedrick, LS, EIT
Infrastructure Solutions Team Manager, IMAGINIT Technologies





Class summary

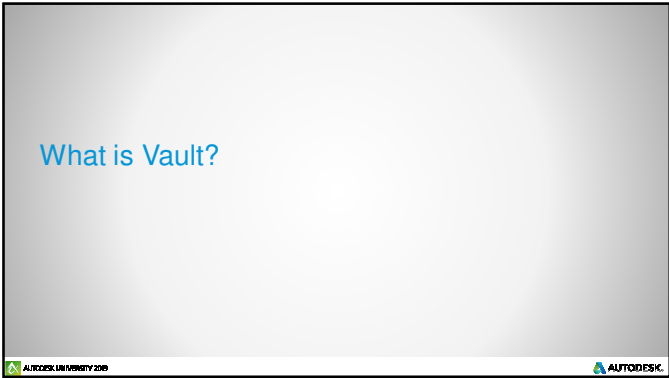
This class provides an outline on how to successfully implement Autodesk Vault Professional into a civil engineering and/or land surveying organization

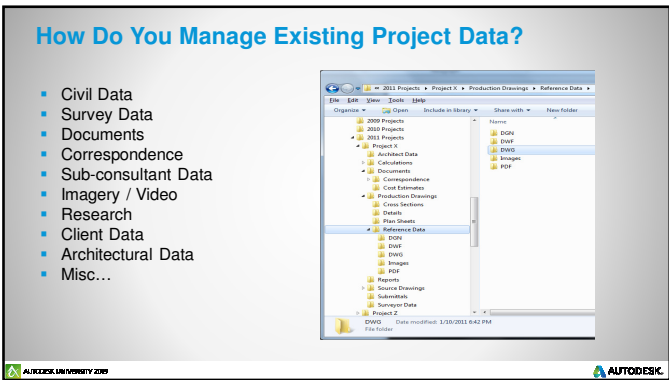


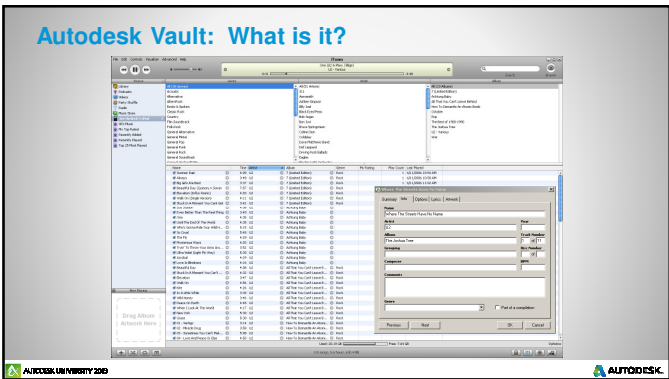
Key learning objectives

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

- Define and track the lifecycle and workflow of files through the design cycle
- Capture and save important project milestones and incremental design submittals
- Secure and control design data from unwanted access or modifications
- Collaborate with external partners







Versioning

- Automatic
- Tracks who, when, etc.
- Easily revert to previous version
- Ability to add searchable comments about the file

Thumbnail	Version	File Name	Revision	State (Historical)	Created By	Checked In	Comment
	5	C-Site Grading.dwg			Administrator	8/20/2013 12:23 ...	Properties Summary...
	4	C-Site Grading.dwg			Ed	8/20/2013 12:08 ...	
	3	C-Site Grading.dwg			Ed	8/20/2013 11:38 ...	
	2	C-Site Grading.dwg			Administrator	8/20/2013 4:07 ...	

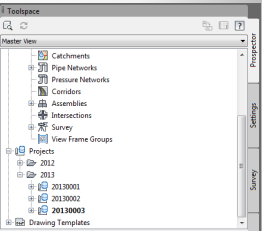
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Design Application Integration

Most Autodesk Design Apps

Civil 3D Integration

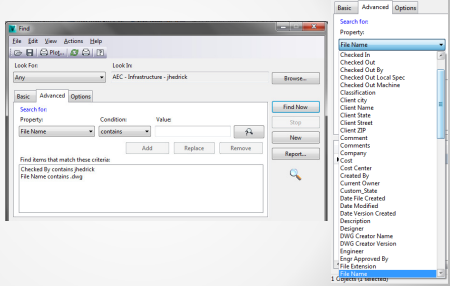


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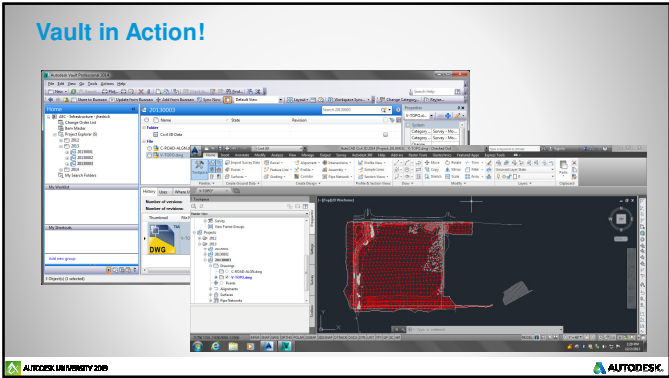
Searching (Queries)

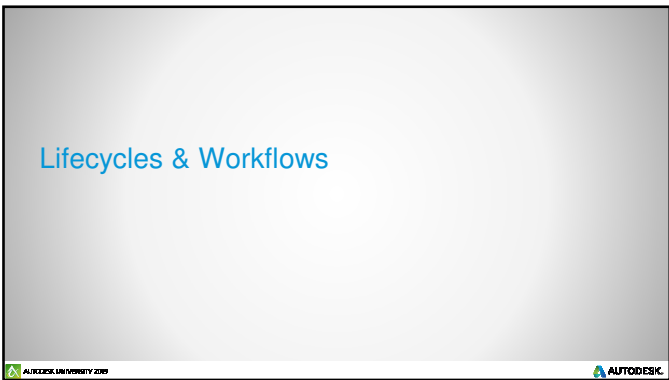
- Easily find files based on properties (attributes)
- SQL based
- Save for future quick access

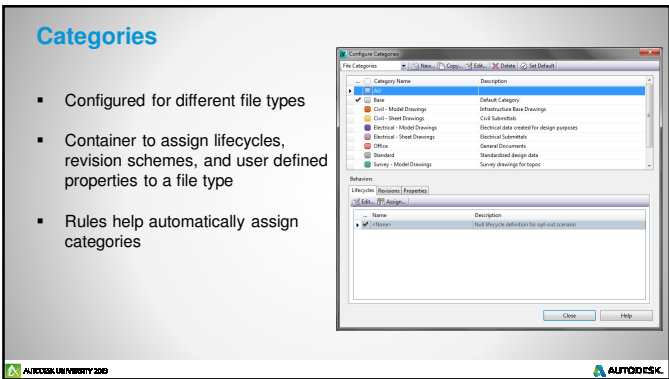


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Lifecycles

LIFECYCLES: the predefined workflow a company uses to track the status of a document.

As a product is conceived, defined, designed, revised and constructed, it will progress through various stages that are specific to a particular company

WORK IN PROGRESS

FOR REVIEW

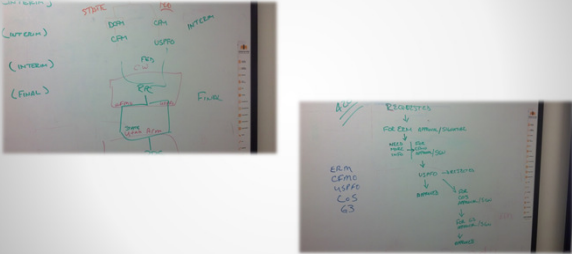
APPROVED

ARCHIVED

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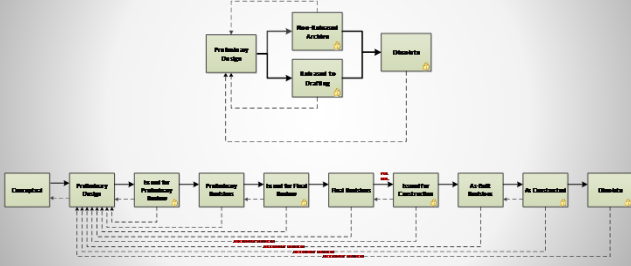
Whiteboards are a great place to start



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Sample Lifecycles



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Best Practices

- Consider starting simple
- Document existing workflows
- Use Visio Template
- Establish ALL user Groups before building LC definitions

The diagram illustrates a workflow process starting with a green circle, followed by several rectangular boxes representing different steps. Below the workflow, there is a table with columns for 'User Group', 'Description', and 'Permissions'. The table lists several user groups and their associated permissions.

User Group	Description	Permissions
ADMINISTRATOR	Full control of the system	Full control
MANAGER	Full control of the system	Full control
USER	Full control of the system	Full control
VIEWER	Full control of the system	Full control
EDITOR	Full control of the system	Full control
DEVELOPER	Full control of the system	Full control
TESTER	Full control of the system	Full control
DEVELOPER	Full control of the system	Full control
TESTER	Full control of the system	Full control
DEVELOPER	Full control of the system	Full control
TESTER	Full control of the system	Full control

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Vault in Action!

The screenshot shows the Autodesk Vault software interface. On the left, there is a tree view showing the project structure. In the center, a 3D model of a mechanical part is displayed. The interface includes various toolbars and panels for managing the project.

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Milestones

A blank slide with the title 'Milestones' in blue text at the top left. The rest of the slide is empty.

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Revisions

REVISIONS: A collection of versions with a common label representing the work done to complete a desired milestone.

Example Revisions:

Primary:	A	1	30% Complete
Secondary:	A.1	1.1	30% Complete.A
Tertiary:	A.1.1	1.1.1	30% Complete.A.A

Preliminary

30% Complete

60% Complete

90% Complete

Final submittal

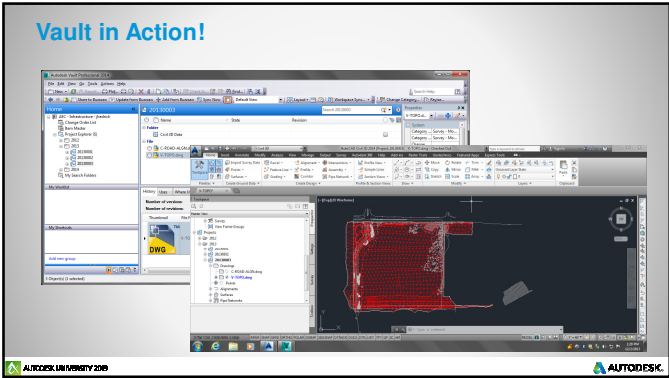
Approved

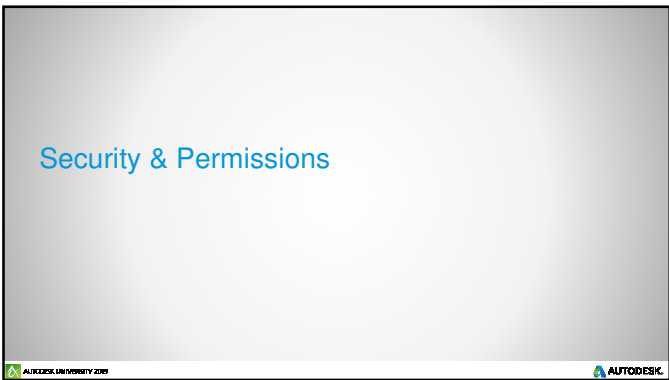
Revisions

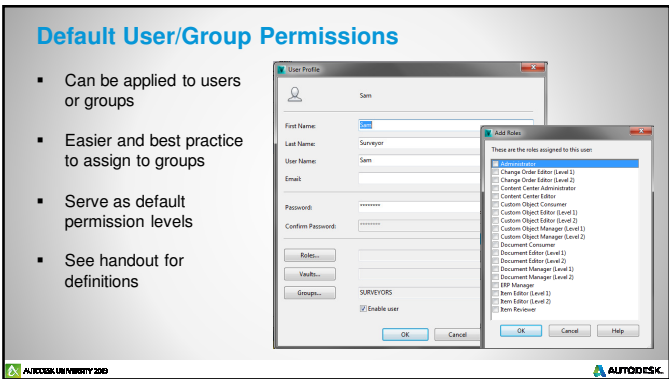
- Typically easier to modify an existing, out of the box definition
- Can be written back to attributed blocks in drawings

Revisions

- Lifecycle state changes typically dictate the rev 'bumping' of a file
- Revisions can be bumped primary, secondary, or tertiary outside of the Lifecycle state transition using the Revise command
- Revision state can be written back to title blocks







Lifecycle Security

- Lifecycle definition can be configured to meet company standards
- Range from Full Control to No Access
- Provide a granular level of security to files

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Folder Level Permissions

- Easily control access to entire directories
- Can be assigned to groups or individuals

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Vault in Action!

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