Moving Origin Energy Data to Autodesk Vault

Complete Data Migration Solution

BACKGROUND

Origin Energy is a leading company in energy exploration and production, power generation and retailing. It is one of the leading providers of energy to homes and businesses in Australia [1].

In 2009 Origin Energy identified the need to move all its engineering drawings from different data management systems located on geographically distributed data servers to Autodesk Vault.

Overall Data Transfer project was split into three parts:

- Data Transfer from SmartTeam,
- Data Transfer from shared folders with Drawing Title Block indexing, and
- Data Transfer from Objective.

AUTODESK VAULT BENEFITS

1 Improved teamwork and collaborative design

2 Concurrent design changes and automation

3 Ability to rapidly find and reuse data

4 Simple administration and configuration

5 Automated release and change processes

6 Scalability for multiple sites and large workgroups

PROJECT REQUIREMENTS

All three projects had specific requirements with a common aim to:

- Create a collaborative environment for all design units across the business
- Allow for concurrent design changes and storing typical design projects for future use
- Allow for simple and centralised administration of engineering data
- Allow access to different engineering units located on various geographically distributed sites.

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[1] https://www.originenergy.com.au/about/who-we-are/

DATA TRANSFER CHALLENGE: ORIGIN ENERGY

TIME AND $ — A specific timeframe and cost-saving needed to be met

DATASET — A large dataset located in different systems on different sites

DOCS VERSIONS — Necessity to migrate documents with versions, metadata and links

DATA SORTING — The need to check, sort and identify the latest versions of the engineering drawings by scanning data from different locations

TRIANING — Perform Training and User Acceptance Testing prior to final data transfer

BUSINESS AS USUAL — Minimal disruption to Business As Usual

SOLUTION: DATA TRANSFER TOOL ⌄

Data Transfer Tool is a efficient and fast data migration approach that has been developed using many years work with large organisations and a range of stakeholders.

BUSINESS NEEDS
A streamlined holistic process to configure Autodesk Vault to mirrors company engineering processes and addresses company needs.

DATA CLEANNING
Automated, fast and efficient way of preparing and cleaning your data for upload to Autodesk Vault.

TESTING & TUNING
An automated way to Autodesk Vault configuration, its testing and fine tuning.

COLLABORATION
Encompasses collaborative consultation with stakeholders at all stages of Autodesk Vault implementation.

FAST DATA UPLOAD
Data upload to Autodesk Vault over a single weekend of a dataset of any size.

TRAINING
Includes processes for end users testing & acceptance and training.

The Data Transfer Toolbox was a core approach that was used for the successful completion of *Origin Energy* data transfer project.

To learn more about how the Data Transfer Toolbox can automate and streamline your switch to Autodesk Vault please get in touch today - info@moderncad.com.au.

PROJECT 1: TRANSFER FROM SMARTTEAM (ERARING POWER STATION) ⌄

Eraring Power Station is the largest power station in Australia.

Engineering Group used SmartTeam to manage its engineering data. SmarTeam is a PDM / PLM (Product Design Manual / Product Lifecycle Management) system developed by Dassault Systèmes. It was primarily used to store the AutoCAD files.

Due to the lack of support and significant maintenance overhead Origin Energy decided to replace it with Autodesk Vault. At the same time Autodesk Vault enabled more efficient management of DWG files due to native integration with AutoCAD.

KEY POINTS

- More than 150,000 files (87,000 documents including versions) transferred with associated metadata (document properties)

- Replicated the original folder structure

- All AutoCAD drawings have been scanned to restore file dependencies and report missing xRefs.

- Assigned new Vault Categories and Lifecycles. SmarTeam document states mapped to new Vault Lifecycle states.

- SmarTeam revisions converted into Vault revisions

- After an extensive user acceptance testing and training the data transferred over a weekend keeping to the absolute minimum disruption to the business

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PROJECT 2: TRANSFER FROM SHARED FOLDERS WITH DRAWING TITLE BLOCK INDEXING (SHOALHAVEN HYDRO PUMP STORAGE SCHEME)

This project was focused on consolidation of drawing registers and improvement of documents search and management practices for Shoalhaven Hydro Pump Storage Scheme.

KEY POINTS

- 15,000 files transferred, mostly raster scans of hand drawings and microfilm

- 600 duplicates removed by automated data cleansing system
- Drawing register and document properties copied from MS Access databases

- 10,000 raster documents indexed (title block and revision history information extracted and copied into Vault file properties)

- Power Plant KKS indexes assigned to improve search

- Assigned new Vault Categories and Lifecycles

- Revisions normalised and mapped to standard alphabetic and numeric revision schemes

- After an extensive user acceptance testing and training the data transferred over a weekend keeping to the absolute minimum disruption to the business

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PROJECT 3: DATA TRANSFER FROM OBJECTIVE

The primary goal of this project was to continue consolidation of drawings to provide effective access to the data for all users, reduce cost of licensing and IT infrastructure maintenance related to Objective.

Objective was a legacy document management system used prior to Origin Energy migrating to OpenText.

KEY POINTS

- 35,000 of Objective documents (38,000 files including historic versions) converted into Vault files

- Objective folder structure has been transformed into a Vault folders structure

- Document revision history preserved

- Document metadata copied into the Vault file properties

- Audit trail migrated

- Assigned new Vault Categories and Lifecycles

- Revisions normalised and mapped to standard alphabetic and numeric revision schemes

- After an extensive user acceptance testing and training the data transferred over a weekend keeping to the absolute minimum disruption to the business

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