

ProjectWise

This document is to provide CDOT users a little background on why the Department is moving to ProjectWise, some benefits for users and the Department, potential future uses, and finally Guidelines for using ProjectWise.

CDOT is implementing the use of ProjectWise to store and backup project information, share data, and provide project managers with additional tools to manage their projects. ProjectWise stores all project documents in one central location. This allows for easy sharing and referencing of documents and information. This is a major change in the way we currently do business. ProjectWise also has the ability to archive information: implementation will be investigated in the future.

Bentley

ProjectWise is an integrated suite of collaboration servers that enable AEC project teams, their information, and their tools to **work as one**.

Bentley ProjectWise provides **managed access to AEC and geospatial content** within the workgroup, across a distributed organization, or among collaborating organizations throughout the world. By working within the Bentley ProjectWise [managed environment](#), AEC and geospatial professionals can streamline their project work and improve the efficiency of their operations, regardless of industry vertical.

Working as one:

- Enables real-time communication and coordination, shortening project schedules.
- Ensures workers find the right information every time, leading to better decisions, less re-work, and higher quality deliverables.
- Connects workers through high-performance, multi-site collaboration.
- Increases data exchange efficiency and accuracy, reducing costs throughout the AEC lifecycle.
- Empowers project managers to monitor progress continuously and respond quickly to partners, owners, and agencies.

CDOT ProjectWise Architecture

In preparation for the deployment of ProjectWise, numerous infrastructure improvements have been implemented. CDOT has upgraded the useful line capacity on the T1 lines to each of the residencies, effectively doubling the bandwidth. These upgrades involved upgrading the service on those lines and the installation of upgraded routers in 26 residencies. CDOT is implementing ProjectWise on an entirely new hardware infrastructure. New servers are being implemented for this project, as well as new storage technology and capacity. The ProjectWise Distributed File Servers (DFS) will be located in Region headquarters offices in Regions 2, 3, 4 and 5. The Region 1, 6 and HQ DFS will be located in CDOT HQ. This architecture ensures that the project data is located in the Region where the project is located and the majority of the work is

performed. Figure 1 and Figure 2 show the ProjectWise server environment the File Retrieval process.

Figure 1 – ProjectWise Environment

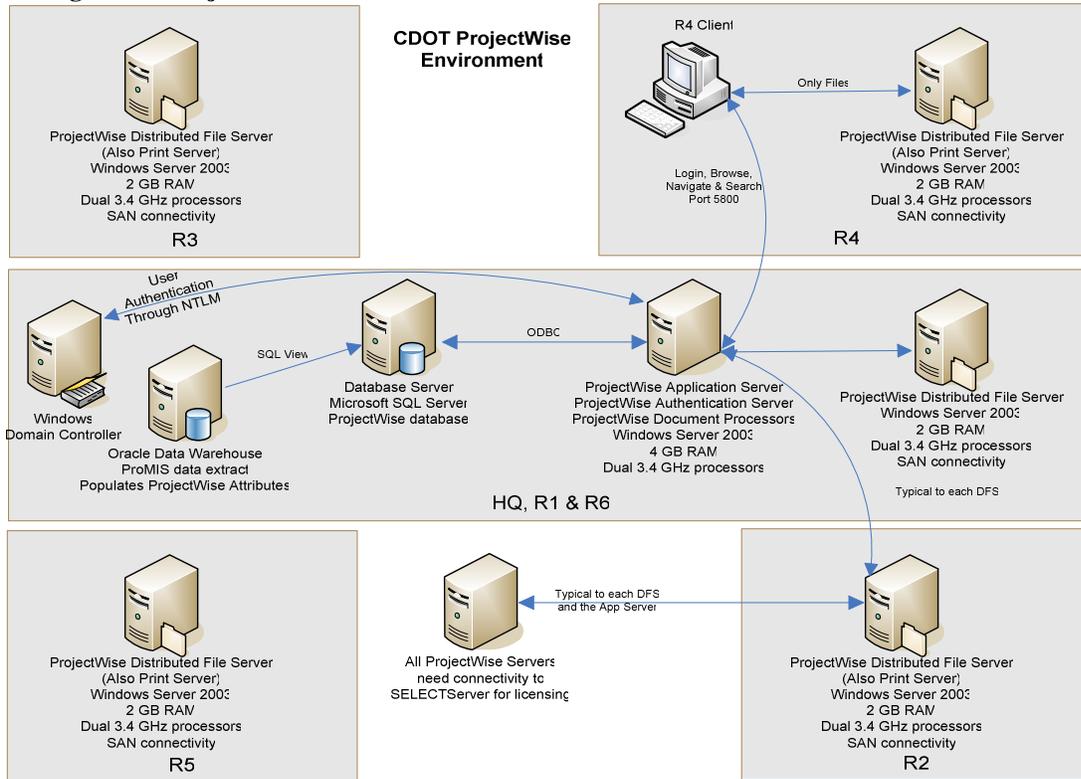
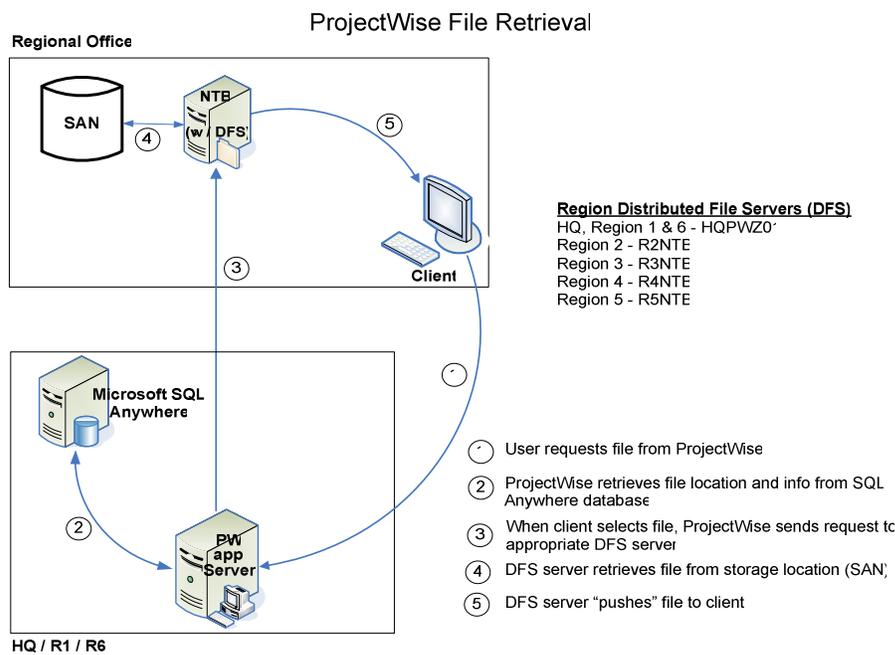


Figure 2 – ProjectWise File Retrieval Process



Currently, CDOT shares and recreates a lot of information between project team members from CAD drawing files, to reports and permits. The current workflow requires the creator of a document to send it out to team members where they then store it on their PC thus creating multiple instances of the same file. The creation of multiple files all over the place has obvious disadvantages of:

- Is this the latest file?
- Oops, I just overwrote the one I was supposed to be using.
- Incompatible file formats.
- Too much/too few data, not the data recipient really needs.
- Locating the necessary project files on different computers.
- Inability of passing off a project to another user (see above bullet).
- The creator of the file edits the file and forgets to re-send it out to everyone.
- Someone getting into a document and making changes when they did not have the permission to do so.

ProjectWise will help us more effectively share data and manage our projects within a collaborative environment to prevent the above from happening thereby streamlining and making the project development process more efficient.

Data managers will create a project in ProjectWise and each specialty group will have a folder where they will store their information. To date specialty advisory groups have helped create the folder structure and resulting workflows that will be implemented. These folders have file and directory security set so that only the specialty group members in the Region and HQ will have read/write permissions, everyone else will have read access. This is where the power of ProjectWise comes into play, because file and directory permissions have been set to read access, it allows them to share that information with other project team members without fear the data will be accidentally changed or destroyed. The creator of the document can store it in one location, edit and update it as required while other team members can reference that file and know they are working with the correct and latest information.

Files will be easily accessed by reproduction for printing and advertisement needs.

ProjectWise server will be backed up on a regular schedule so the problem of losing data due to computers crashing or accidental deletion of files will be minimal.

Project Management

ProjectWise is also a project management tool that will allow CDOT managers to access data directly without having to call to get the information. For example check schedules, review reports, reference others files, check on clearances, etc.

ProjectWise Guidelines have been developed to enable CDOT to successfully implement this program.

ProjectWise Guidelines:

1. Starting in September 2005 all new projects that have a project number (i.e. are in ProMIS) will utilize ProjectWise.
2. All projects currently using MicroStation and InRoads will be transferred to ProjectWise.
3. All project related data will be stored on ProjectWise.
Note: E-mail may be added at the end of the project so as to only include pertinent correspondence.
4. Project files will reside in the creators' directory structure and others will reference to it as needed.
5. A description for what is to be stored where and workflows for each specialty group are to be followed and can be found on the CADD Manager's website: <http://internal/CADD/>
6. No folders can be added or deleted unless submitted to and approved by the standards and configuration team.

Adopted by Steering Committee 8-19-05