

**Instructions For Using**  
**The Utah Department of Transportation**  
**CADD Setup Utility for Exported ProjectWise Projects Application**

**November 8, 2010**

**Introduction**

The **UDOT CADD Setup for ProjectWise Projects** utility application is a UDOT-Developed Windows-based application and is a tool that can be used by consulting engineering firms doing business with UDOT in developing projects or parts of projects that will reside within the UDOT CADD document management system, *ProjectWise*, environment.

The purpose of this application is to enable the creation of a project folder outside the *ProjectWise* environment, using the *ProjectWise*-compliant project folder structure.

The current version of this application is compatible with MicroStation V8i (SELECT series 2) software.

**Purpose of this document**

The purpose of this document is to explain how to use this application. This will serve to augment the *ProjectWise Access for Consultants* document.

**Overview of the Application**

This application is a stand-alone executable program that resides in the currently-available UDOT CAD\_Standards folder that can be downloaded from the UDOT Engineering Technology Systems (ETS)/CADD Web page:

<http://www.udot.utah.gov>

Home > Doing Business > Consultant and Designer Resources > Engineering Technology Systems (CADD/GIS/GPS/ProjectWise/Viz)

Once at the ETS page, note the Subtopics pane near the upper-left, and click CADD, then on the CADD Support page follow the link near the bottom to the actual CADD Downloads page.

Note that once you have downloaded the CADD Standards folder, this application is here in that folder:

CAD\_Standards\Resources\Applications\CadUtil.exe (Note: This application replaces and supersedes the old UDOT CAD Utilities application, which is no longer supported).

The **CADD Setup for ProjectWise Projects** utility application consists of a single dialog containing two major portions, namely **Actions** and **Settings**.

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File Help

Utah Department of Transportation  
**CADD Setup Utility**  
for Exported ProjectWise Projects

**Actions**

- Create Project** This will create a UDOT ProjectWise-compliant project folder structure with a name similar to 'PIN\_Description' that can be populated with files from ProjectWise. Will also populate with Project Configuration File.
- Get Project Config File** This will copy the UDOT ProjectWise-compliant project configuration file (PCF) from the project folder and place it in the Projects/UDOT folder under your Workspace.
- Create User Config File** This will create a UDOT ProjectWise-compliant user configuration file (UCF) in Workspace\Users. Also the user DgnLib file will be created in Workspace\Interfaces\MicroStation\username.
- Apply Civil Registry** This will apply registry settings for Civil applications to properly function within the UDOT ProjectWise environment.

**Settings**

**User**

Your User Name (Normally Your Login ID):  
bgardine Change

**Folders**

CADD Standards Folder:  
Undefined Change

Projects Folder:  
Undefined Change

Your Workspace Folder:  
C:\Documents and Settings\All Users\Application Data\Bentley\MicroStation Change

**Exit**

The **Actions** area contains several buttons that, when clicked, will perform various procedures including:

- Create Project
- Get Project Configuration File
- Create User Configuration File
- Apply Civil Registry Settings

These will be described more in-depth later in this document.

The **Settings** area contains fields that must be populated with appropriate information for the application to use, including:

- Your User Name
- The Location of Your UDOT CADD Standards Folder
- The Location of Your Projects Folder
- The location of Your Bentley (CADD Software) Workspace Folder

## Instructions

To utilize this application, take the following steps:

1. This assumes you already have your CADD software installed.
2. For first-time use, create the necessary folders for CADD Standards and Projects. For subsequent use, or if you've already done this, proceed to step 6 to start the application.

**Note:** The paths, etc., shown in these instructions are for example only, and your preferences and/or requirements may differ. You may, at your discretion, place (or have) these either on your workstation or network drive(s).

3. For the purposes of this document, we'll create a container folder for these at the root of the "C" drive, thus *C:\CADD*.
4. Within that folder, place your complete *CAD\_Standards* folder as downloaded from the UDOT CADD Support Web site, thus *C:\CADD\CAD\_Standards*.
5. Also within that folder, create a projects folder, thus *C:\CADD\Projects*.
6. **Start the application** by navigating to the following folder within your *CAD\_Standards* folder: *C:\CADD\CAD\_Standards\Resources\Applications* and there find and double-click the file named *CadUtil.exe*. This will launch the application.
7. Make sure your **Settings** are all correct.

Note that the settings include your workstation's user name, the CADD Standards folder (as described above), the Projects folder (as described above) and the "workspace" folder (discussed below).

The workspace folder is determined by the version of Bentley CADD software, and the current UDOT version, MicroStation V8i (SELECT series 2), expects its workspace to be located here (on Microsoft Windows XP operating system):  
*C:\Documents and Settings\All Users\Application Data\Bentley\MicroStation V8i (SELECTseries)\Workspace\*

Note that if you are using another operating system such as Microsoft Vista or Windows 7, the location may be different than is shown here.

This application automatically sets this location. If your particular environment uses a different location for this, change it to suit.

Also note that, as newer versions of MicroStation are released, the location of the workspace folder may change, and this may require some modifications to this application to “predict” where MicroStation will expect to find the workspace folder. This will be taken into account if and when UDOT upgrades to any subsequent versions.

To change any of these settings, click the adjacent yellow *Change* button, which will allow you to either type in a new user name or browse for a folder location.

Note that with the folder location inputs you cannot overtype but must browse; This is to eliminate any possible typographical errors which can be very difficult to track down should a malfunction occur.

The settings are saved on your workstation and once you change any of these settings they will stay until you change them again, but it’s always good practice to check them at each usage.

Note that all settings fields have “ToolTips” (small pop-up descriptions) that will appear if you hover over them with your cursor, and these will show the full value of any field even if it overflows the field box.

The settings are very important, since they provide source and destination locations for the actions executed by the application.

8. After you have set or verified your settings, click the **Create Project** action button. This will prompt you to provide the project name in the form PIN\_Description. Enter the project name how it is set up in the UDOT *ProjectWise* environment. Clicking the *OK* button will create the new project folder in your *Projects* folder. Note that this option is required only ONCE per project.
9. Click the **Get Project Config File** action button. This will prompt you to again provide the project name, which should already be correct from the previous step, but if not, you can click the yellow *Change* button to browse for it. Note that there will be two options for the destination, namely your workspace or your project.
  - a. The “Project” option will create the PCF and place it in the newly-created project folder. This can also be used to populate an already-created folder with a new PCF. Note that this action is required only

ONCE per project.

- b. The "Workspace" option will copy the PCF from a project folder to your workspace. This can be done for as many people need access to the actual project.
- c. Clicking the *Finish* button will either create the project configuration file (PCF) in the project folder or copy it FROM the project folder TO your workspace, depending on which option you are doing.
- d. Note that BOTH options MUST be done, first Project (only once), then Workspace (maybe many times). The reason for this is that in many situations, a project folder may be created on a network drive, and then more than one user will need to "connect" to that project, which is provided for by placing a COPY of the PCF in each user's workspace.

Also note that the Workspace option is selected by default, since that may be more commonly used in a networked environment as described above.

10. Click the **Create User Config File** action button. This will create your user configuration file (UCF) and the user DgnLib file in the workspace. This action normally needs to be done only once per each user/workstation situation.
11. Click the **Apply Civil Registry** action button. This will apply certain registry settings for the civil applications to efficiently function in the current UDOT environment. This action normally needs to be done only once per each user/workstation situation.
12. You should now be ready to begin using your new project folder as directed in the *ProjectWise Access for Consultants* document relating to the consultant *ProjectWise* workflow.