















MicroStation and ProjectWise

MicroStation users will encounter a few differences when working within ProjectWise. MicroStation is fully integrated with ProjectWise which means that any time you browse to a file within MicroStation, you will be prompted to look within ProjectWise first. The management of MicroStation reference files is also a benefit in using ProjectWise.

Opening a MicroStation DGN file

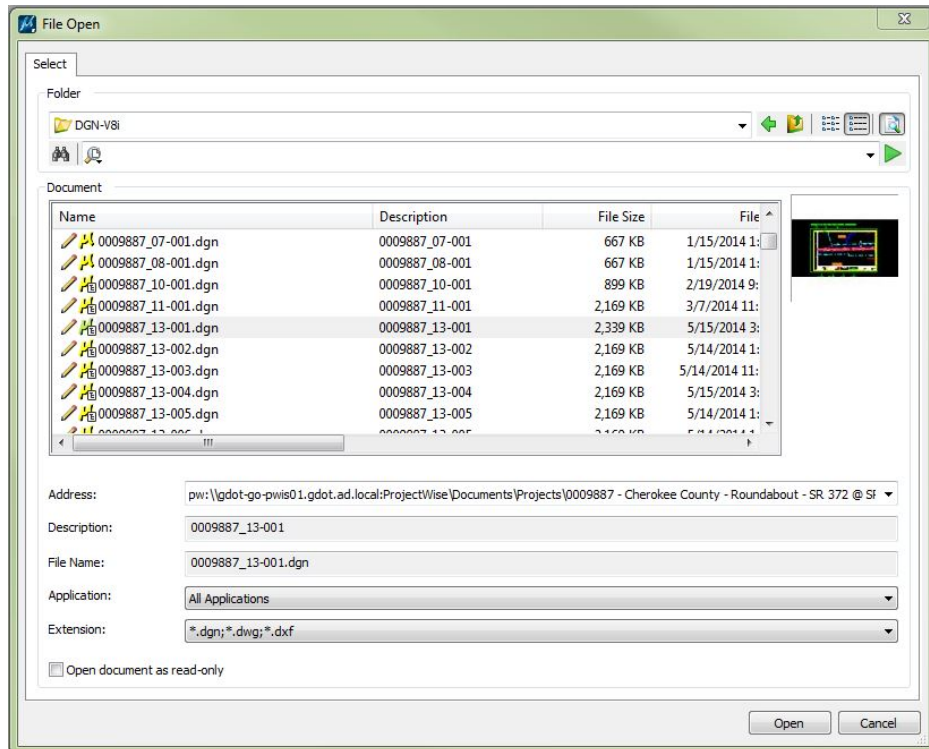
You can open a DGN file for viewing or editing that is stored in ProjectWise in two ways. The easiest way is to double click the DGN file in ProjectWise Explorer. This method will open the file in the correct version of MicroStation and will load the proper workspace.

Name	Description	File Size	File Updated	File Updated By
 0009887_04-001.dgn	0009887_04-001	1,145 KB	4/30/2014 2:52:12 PM	01006507
 0009887_05-001.dgn	0009887_05-001	1,623 KB	5/30/2014 8:22:34 AM	relam
 0009887_07-001.dgn	0009887_07-001	667 KB	1/15/2014 1:54:06 PM	01006507
 0009887_08-001.dgn	0009887_08-001	667 KB	1/15/2014 1:54:56 PM	01006507
 0009887_10-001.dgn	0009887_10-001	899 KB	2/19/2014 9:37:41 AM	relam
 0009887_11-001.dgn	0009887_11-001	2,169 KB	3/7/2014 11:20:32 AM	relam
 0009887_13-001.dgn	0009887_13-001	2,339 KB	5/15/2014 3:01:29 PM	01006507
 0009887_13-002.dgn	0009887_13-002	2,169 KB	5/14/2014 1:14:45 PM	01006507
 0009887_13-003.dgn	0009887_13-003	2,169 KB	5/14/2014 11:46:21 AM	01006507
 0009887_13-004.dgn	0009887_13-004	2,169 KB	5/15/2014 3:06:23 PM	01006507
 0009887_13-005.dgn	0009887_13-005	2,169 KB	5/14/2014 1:34:54 PM	01006507
 0009887_13-006.dgn	0009887_13-006	2,169 KB	5/14/2014 1:38:03 PM	01006507
 0009887_13-007.dgn	0009887_13-007	2,169 KB	5/14/2014 1:48:37 PM	01006507
 0009887_13-008.dgn	0009887_13-008	2,169 KB	5/15/2014 3:05:18 PM	01006507

You may also use the desktop icon to open the MicroStation application and browse to the DGN file you desire to view or edit.



MicroStation sees that ProjectWise is installed and will open a browser for ProjectWise locations first. If a file is needed that is outside of ProjectWise, simply click Cancel and the regular Windows-based file browser will display.



Opening the DGN will check out the document in ProjectWise, locking it to read-only for other users. Any reference files attached to the DGN that is opened are not checked out to you so they are still available for others to open and edit.

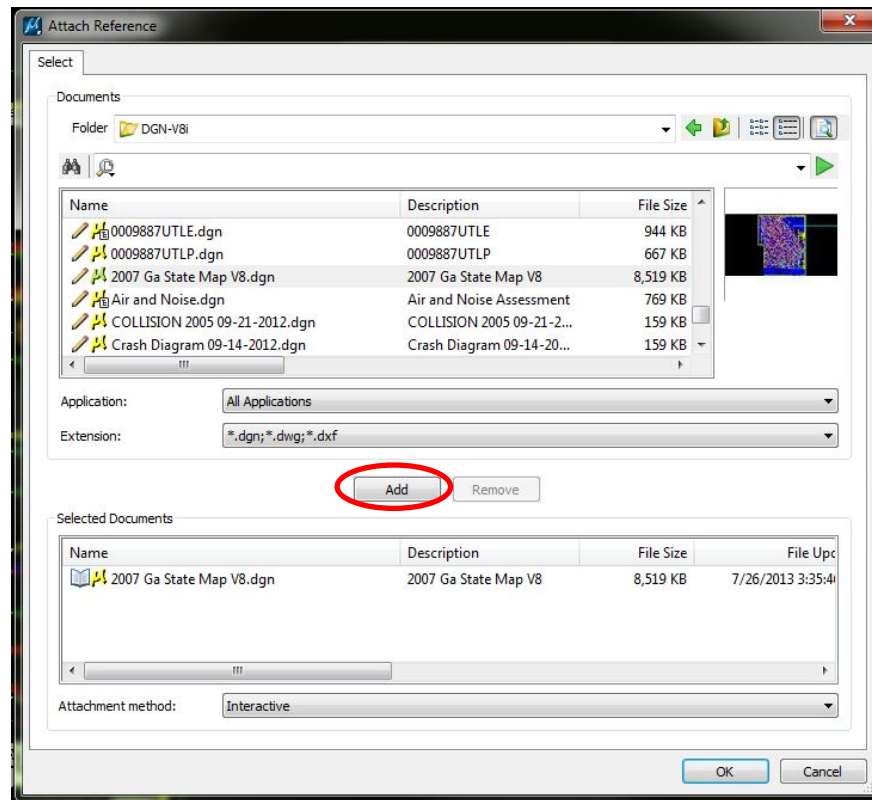
Checking in MicroStation files

When you have completed your viewing or editing of a DGN file in MicroStation that is stored in ProjectWise, you close it or exit the application just like working outside of ProjectWise. You will be prompted with options to check in, update the server copy, or free the DGN file. You may also enter comments that are recorded in the document's audit trail. Refer to the ProjectWise Explorer Fundamentals training document for more information about these options.

MicroStation Reference Files in ProjectWise

DGN files are referenced together in ProjectWise using the same methods as used outside of ProjectWise. The only visual difference is the **Attach Reference** window that allows you to browse for the desired references within ProjectWise.

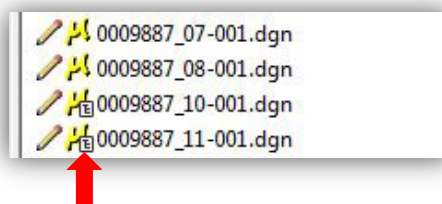
You may attach several DGN files simultaneously by selecting them in the top portion of the window and then clicking the **Add** button.



After completing your selections, click the **OK** button on the bottom of the window and the normal Reference Attachment Settings window will display.

One of the more powerful features of ProjectWise is how it manages reference files. If a DGN file is moved in or renamed in ProjectWise, the instances where this file is referenced will remain intact – it will not display in red in the References window.

It is easy to see what DGN files have references attached in ProjectWise Explorer by looking at the MicroStation icon next to the file. The icon with the little symbol in the lower right corner means that there are references attached to that DGN.



Updating MicroStation References in ProjectWise

As noted above, MicroStation users will encounter several differences once “DGN” files are loaded into ProjectWise. Management of MicroStation reference files requires an understanding of how the referencing relationships function in the ProjectWise environment. Once the reference connection is made, it is **retained** whether the reference file is moved, copied, or renamed.

A **common mistake** is to rename or move a reference file that has already been attached to several sheets. The two examples below discuss how to update references that are already attached to multiple sheets.

Scenario 1: Request for additional topo

TOPO enhancements (applies to PROP, UTLE, etc...) are requested (SDE will copy existing TOPO file and work directly in the original file) for more info, see the Survey Enhancements workflow document: [Survey Data Process](#)

Designer's Actions:

- 1) Designer makes no changes to the reference file attachments.

Scenario 2: Construction limits are regenerated (LIMT reference file). This applies to any reference file updates not covered in Scenario 1.

Designer's Actions:

- 1) In PW Explorer, Select the original file → Right-click → Copy To and name the copied file (for back-up purposes only).

Example: The original reference file is named **000111LIMT.dgn**
 The back-up is named something like 000111LIMT_old_date.dgn

- 2) Create the new LIMT reference file with a non-standard name.

Example: The original reference file is named **000111LIMT.dgn**
 The new file is named something like 000111LIMT_date.dgn

- 3) Open the original file (**000111LIMT.dgn**) and turn on all levels and delete the contents.
- 4) Reference the newly created LIMT file (**000111LIMT_date.dgn**) to the original.
- 5) On the Reference Files display, Select the new file (**000111LIMT_date.dgn**) → Tools → Merge into Master.