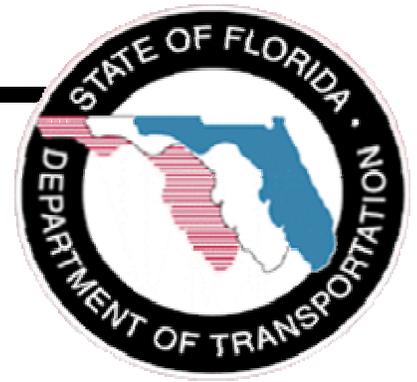

FDOT v8

Conversion Utility



FDOT V8 Conversion Utility

Version 1.0.0

Developed By:

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FDOT v8 Conversion Utility

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FDOT v8 Conversion Utility

Chapter 1

System Requirements

Installation Considerations:

- MicroStation 2004 (Complete Install, including programming tools)
- FDOT2004
- Write access to projects directory.
- Write access to the directory where the FDOT v8 Conversion Utility is installed.
- Free disk space on the projects drive equal to the size of the project to be converted if the option to create backups is selected.

Project Considerations

QC compliancy should be as high as possible to improve conversion.

- Elements that do not match CADD Standards will not be converted without user intervention.
- Non-standard file names will not be converted without user intervention.

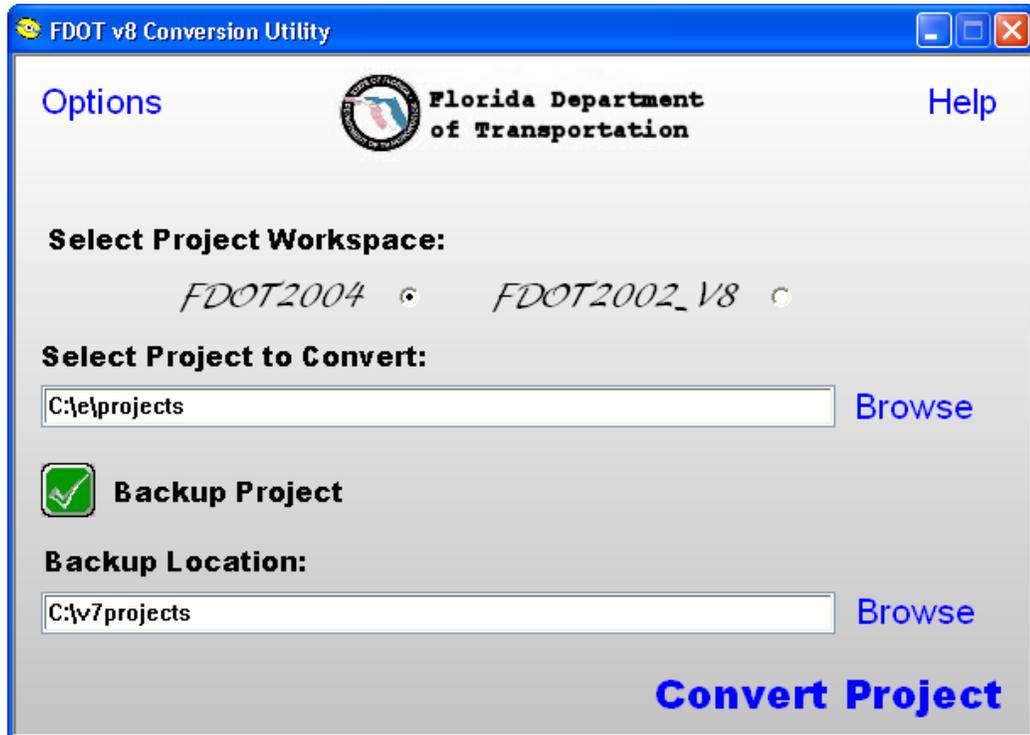
Design files should be checked for file corruption and repaired as needed. If a file is converted with corruption problems will persist.

All users accessing the converted files must have MicroStation 2004 and FDOT2004 installed to access converted files.

Chapter 2

Overview

The release of FDOT2004 and the move to MicroStation 2004 brings major changes in both file format and CADD Standards. In an effort to make the conversion as simple as possible it was decided that utility was needed to automate the conversion of files to the new file format and element symbology.



The FDOT v8 Conversion Utility will convert an entire FDOT project from MicroStation v7 file format to MicroStation v8 format and update the symbology to FDOT2004 Standards when the FDOT2004 workspace is selected or only convert it to the V8 file format if the 2002 workspace is selected. To accomplish this, the project must have been developed based on FDOT CADD Standards for the conversion to process correctly.

The FDOT v8 Conversion Utility automates MicroStation's Batch Convert utility to the point the only thing the user must know is which projects to convert.

Running the Utility

Click the FDOTv8converter shortcut in the Start menu under the FDOT2004 Program Group. When the application starts it will do a system check to see if the defined [Options](#) are valid and prompt the user to redefine options if necessary.

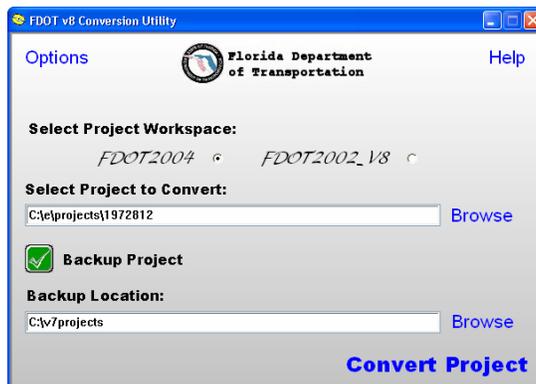
To convert an existing project select the Workspace the project will be converted to, Browse to select the project to be converted and define a backup location if necessary. With this information provided click "Convert Project" to begin the process.

The Conversion Process

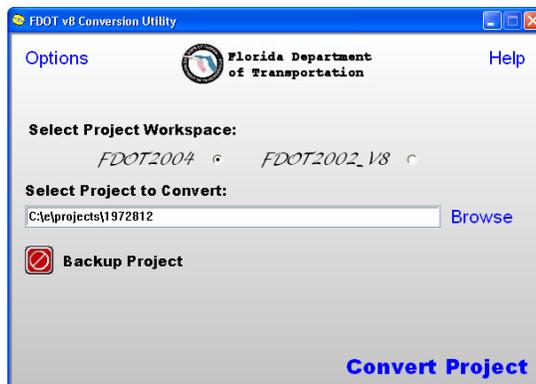
When a project is defined and the conversion process is started the selected project will be processed in 3 phases.

Phase 1 (Backup Project)

If the Backup Project option is selected, as shown below, a copy of the project will be made in the directory defined in the Backup Location field. The text v7 will be appended to the end of the backed up project to identify it is the v7 version of the project and all file and folders in the project will be set to read only to ensure that a file doesn't get modified by accident in the future.



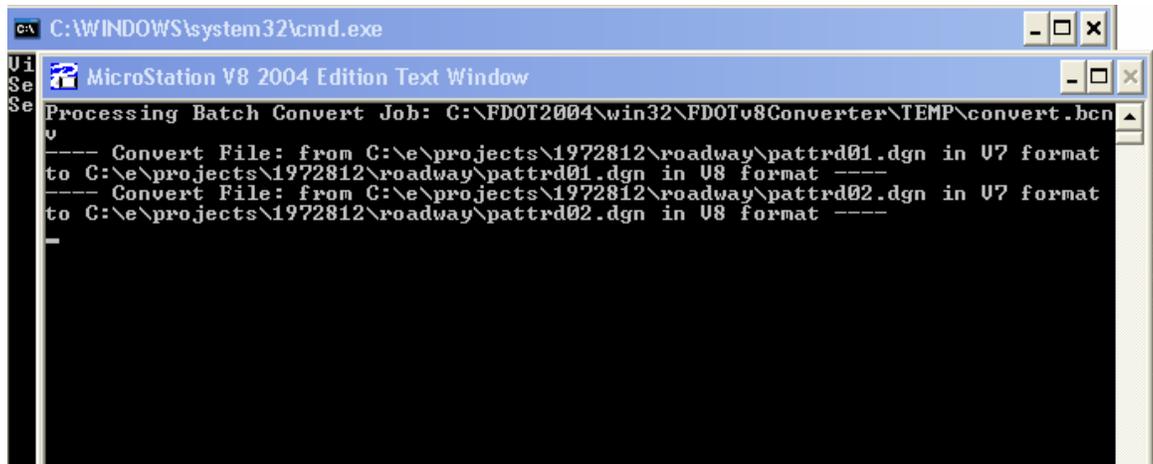
To turn off the backup option, click on the check box.



To turn on the backup option, click on the check box.

Phase 2 (Convert Design Files)

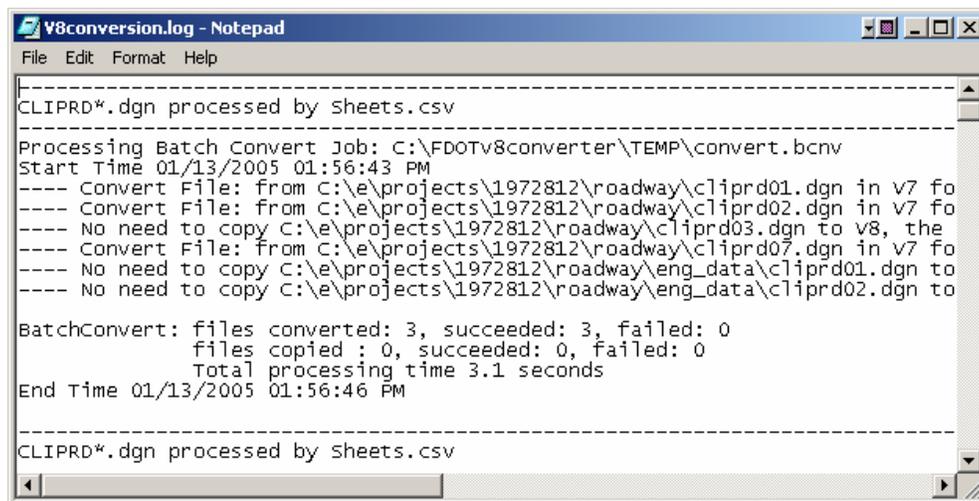
In the second pass the file format and symbology conversion will take place. To accomplish this, the conversion utility will read the [File Names CSV File](#), defined in the Options window, and process each file naming convention from column A with the [CSV Remapping File](#) defined in column D. The conversion utility will process each line in the File Names CSV file one at a time. It will scan the entire project, including subdirectories, for the file name and process all files matching the naming convention with the associated remapping file in a MicroStation Text window and then move to the next file name until all files in the list have been processed.



```
C:\WINDOWS\system32\cmd.exe
MicroStation V8 2004 Edition Text Window
Processing Batch Convert Job: C:\FDOT2004\win32\FDOTv8Converter\TEMP\convert.bcn
U
Se
Se
U
---- Convert File: from C:\e\projects\1972812\roadway\pattrd01.dgn in U7 format
to C:\e\projects\1972812\roadway\pattrd01.dgn in U8 format ----
---- Convert File: from C:\e\projects\1972812\roadway\pattrd02.dgn in U7 format
to C:\e\projects\1972812\roadway\pattrd02.dgn in U8 format ----
```

Any design files that do not match one of the naming conventions defined in the File Names CSV file will not be processed.

A log file named V8conversion.log will be created in the root of the project. It will list out each of the file naming conventions processed and the file names that were processed as shown below.

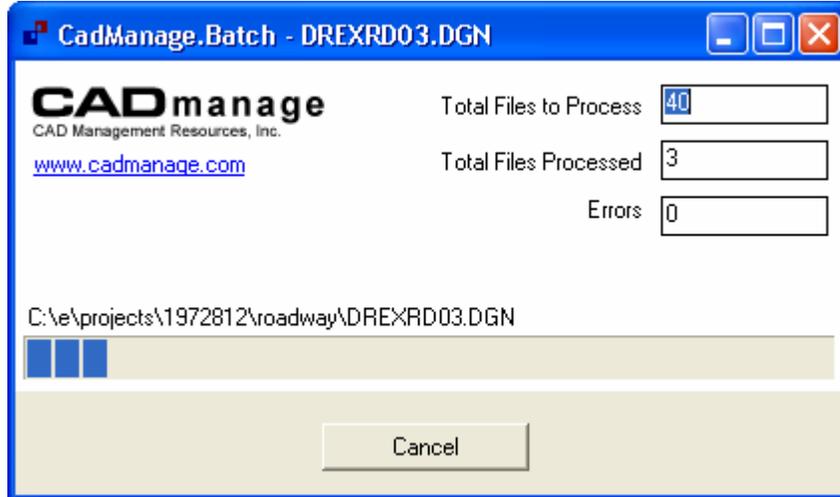


```
V8conversion.log - Notepad
File Edit Format Help
-----
CLIPRD*.dgn processed by Sheets.csv
-----
Processing Batch Convert Job: C:\FDOTv8converter\TEMP\convert.bcn
Start Time 01/13/2005 01:56:43 PM
---- Convert File: from C:\e\projects\1972812\roadway\cliprd01.dgn in v7 fo
---- Convert File: from C:\e\projects\1972812\roadway\cliprd02.dgn in v7 fo
---- No need to copy C:\e\projects\1972812\roadway\cliprd03.dgn to v8, the
---- Convert File: from C:\e\projects\1972812\roadway\cliprd07.dgn in v7 fo
---- No need to copy C:\e\projects\1972812\roadway\eng_data\cliprd01.dgn to
---- No need to copy C:\e\projects\1972812\roadway\eng_data\cliprd02.dgn to

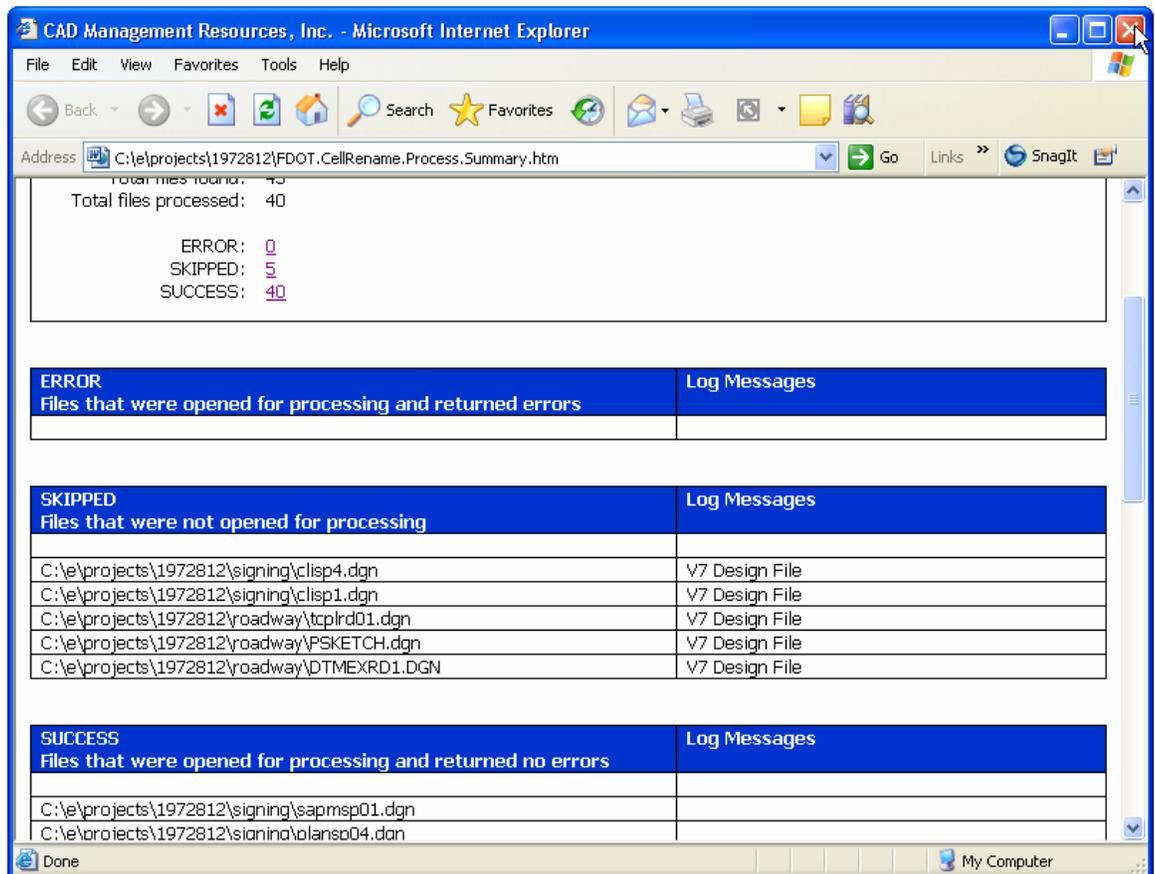
BatchConvert: files converted: 3, succeeded: 3, failed: 0
                files copied : 0, succeeded: 0, failed: 0
                Total processing time 3.1 seconds
End Time 01/13/2005 01:56:46 PM
-----
CLIPRD*.dgn processed by Sheets.csv
-----
```

Phase 3 (Rename Cells)

On the third phase the conversion utility will rename cells in the files that were converted. Only V8 files will be processed. Cell names and descriptions are updated on all MicroStation files that have been converted to V8 file format.

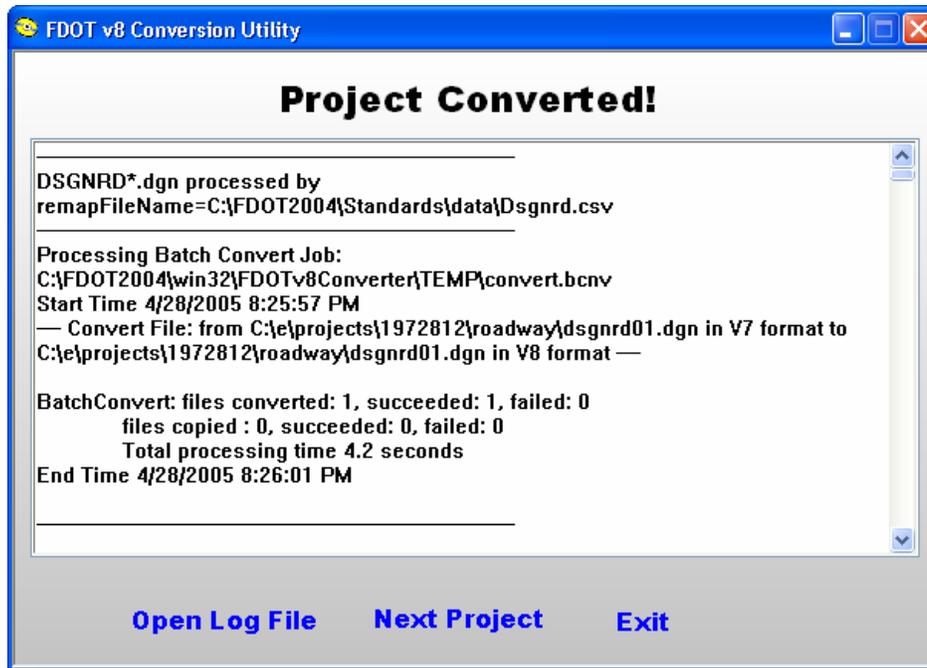


A report listing the converted files (shown below) and skipped files will be displayed upon completion.



Completion

When the conversion process is complete the log file will be displayed, as shown below, and you will be given three options.



- **Open Log File** will open the V8conversion.log file in notepad for easier reading.
- **Next Project** will return you to the main screen where you can choose the next project to convert.
- **Exit** will close the application.

Chapter 3

Options

The Options window is used to define the paths to required files. If the paths defined in the Options window can't be verified when the program is started you will be prompted to redefine current options.



MicroStation Path – Defines the path to the Ustation.exe file that will be used to convert the project.

MicroStation Project Directory – Defines the location of the projects directory. This path is used as a starting location when browsing to projects in the main window.

CSV Remapping Files Path – Defines the path to the directory containing the CSV Remapping files.

FileNames.csv Path – Define the path to the FileNames.csv.

Support Files

CSV Remapping Files

To update design files to 2004 standards the Engineering\CADD Systems Office developed CSV remapping files. These files are used to locate elements by their symbology, as defined by FDOT CADD Standards, and redefine their symbology to 2004 FDOT CADD Standards.

In the example shown below you can see how an element is located by its level, color, linestyle, weight, and cell name. Any element found matching that symbology would be remapped to the new level name defined in column G. Only the output level is defined because color, weight and linestyle will use the "By Level" feature to inherit symbology as defined in the level library.

	A	B	C	D	E	F	G	H
1	%section	Levels						
2	Level	Color	LineStyle	Weight	Cell	ElementTy	V8OutPutLevel	
3	1				BRDMKR		RoadwayMisc	
4	1				CONTAM		RoadwayMisc	
5	1				HPFMKR		RoadwayMisc	
6	1				LEG001		RoadwayMisc	
7	1				LEG002		RoadwayMisc	
8	1				MAMMKR		RoadwayMisc	
9	1	2	0	2	NBNSRC		RoadwayMisc	
10	1				NBNSRC		RoadwayMisc	
11	1	0	0	2	NRCMRK		RoadwayMisc	

Having multiple CSV Remapping Files allows you to move an element in a topo file to one named level while an element with the same symbology can be moved to a different level in the sheet files.

File Names CSV File

To update design files to 2004 standards the Engineering\CADD Systems Office developed

	A	B	C	D	E
1	Microstation J File Name	MicroStation V8 File Name	MS V8 Model Name	MS/J to MS V8 Conversion File	DISCIPLINE
2	COMPRD*.dgn	COMPRD*.dgn	Default	CountyMap.csv	ROADWAY
3	DRDTRD*.dgn	DRDTRD*.dgn	Default	Drainage.csv	ROADWAY
4	DRFLRD*.dgn	DRFLRD*.dgn	Default	Drainage.csv	ROADWAY
5	DRMPRD*.dgn	DRMPRD*.dgn	Default	Drainage.csv	ROADWAY
6	DRPRRD*.dgn	DRPRRD*.dgn	Default	Drainage.csv	ROADWAY
7	DRSTRD*.dgn	DRSTRD*.dgn	Default	Drainage.csv	ROADWAY
8	DRSTRD00.plg	DRSTRD00.plg	Default	Drainage.csv	ROADWAY
9	DRSTRD00.shg	DRSTRD00.shg	Default	Drainage.csv	ROADWAY
10	LDPRRD*.dgn	LDPRRD*.dgn	Default	Drainage.csv	ROADWAY
11	LDXSRD*.dgn	LDXSRD*.dgn	Default	Drainage.csv	ROADWAY
12	PDPLRD*.dgn	PDPLRD*.dgn	Default	Drainage.csv	ROADWAY
13	DSGNLD*.dgn	DSGNLD*.dgn	Default	Dsgnld.csv	ROADWAY
14	HSDTLD*.dgn	HSDTLD*.dgn	Default	Dsgnld.csv	ROADWAY
15	ODADLD*.dgn	ODADLD*.dgn	Default	Dsgnld.csv	ROADWAY