Workflow MA 3 - Level Update for V05.04.00

This document guides you through updating the MicroStation levels that were changed, deleted, and renamed from the Configuration Releases prior to V05.00.00. All drawing files created in prior Configuration Releases will need to be updated to the current CDOT standard levels. See CDOT Configuration Readme.pdf file located in the level library section.

Converting Levels in MicroStation as a Batch Routine

- 1. From the MicroStation Manager, Open a drawing file
- 2. It is recommended that a new project folder is created for the translated data to insure the original project data is not lost. Using the same JPC# number appended with a "-(initials)". Once the data is verified the original data can be backed up to disc and deleted. The "-(initials)" then can be dropped from the project folder. The example used for this workflow will be **12345-NLJ**.
- 3. It is recommended to change a User Preference before proceeding that sets the open dialog box settings. Open the User preferences by clicking **Workspace > Preferences**
- 4. Select the Look and Feel Category
- 5. Toggle off the option for *Use Windows File Open Dialogs*. Turn this feature off will allow a toggle later to open all files in a directory.
- 6. Select Utilities > Batch Converter



7. Change the **Default Destination** to the temporary project folder



8. *Navigate* to the temporary project folder and *<D>OK*

Select Destination Directory		
Directory:		
c:\projects\12345-NLJ\		
🗁 c:\		
projects		
12345-NLJ	-11	
Construction	=	
Consultants		
Landscape_Environmental		
Materials_Geotechnical		ОК
	-	
Drives:		Cancel
	•	<u>H</u> elp

9. **<D>** the **Add Files or Directories to Convert** icon.

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🛅 📂 🔲 強 🗙 🖪 🛛 Process Selecti	on Only					
Default Output Add Files or Directories to Convert Default Destination Currojects 12345-1123						
Conversion Tasks						
# ^ Source	To	Destination				
			4			

Using the Add Files or Directories dialog box, files or entire directories can be added to the list of Selected Files to be processed. Check On Include Subdirectories prior to specifying entire folders to a convert process. <D> to highlight the folder name, then <D> Add. <D> Done when you are finished adding files and/or folders.

Select Files and Directories to convert		
Select Files and Directories to convert Files:	Directories: c:\projects\12345\ c:\ projects 12345 Bridge Construction Consultants Design Hydraulics Landscape_Environmental Materials_Geotechnical Materials_Geotechnical Miscellaneous Planning Drives: c:	Done Cancel Help
Selected Files c:\projects\12345*\	☑ Include Subdirectories	<u>A</u> dd <u>R</u> emove

11. Select Edit > V8 Save Options... from the *Batch Convert* dialog box

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Line	tittled] - Batch Convert Edit Add Files Add Active File Remove Files DWG Open Options DWG Save Options V8 Save Options V7 Save Options	Process Selection Only Process Selection Only ts\12345-NLJ\ To Destination V8 c:\projects\12345-NLJ\	ion]
•	Log File Options Move Files to <u>T</u> op Move Files <u>Up</u> Ctrl+U Move Files <u>D</u> own Ctrl+D Move Files to <u>B</u> ottom	-	4

12. In the *Save As V8 Options* dialog box, a standard CSV file is located in the configuration which is already set up to remap all of the previous versions' levels to the standard CDOT MicroStation V05.00.00 levels.

Save As V8 Options
Remap References Filter
CSV File V050000_Level_Update.csv Q 😹 🗅
Apply Level Mapping Apply Font Mapping Apply Line Style Mapping Apply Color Mapping Apply Wainth Manning
_ другу тедик төррилд
QK Cancel

- Note: If not already there, browse to C:\Workspace\Workspace-CDOT_V8i\Standards-Global\MicroStation\Tables\Level_Translation. Select the file V050000_Level_Update.csv. <D> OK.
- 13. In the *Save As V8 Options* dialog box, check on the option to Apply Level Mapping. <D> OK.



14. **<D>** the *Process Batch Convert Job* icon when all files and directories have been added to the conversion tasks list.

📕 [untitled] - Batch Convert		
File Edit Image: Selecting the selecting of the se	on Only	Apply to Selection
Default Destination C:\projects\cz3457765	11 700	Apply to Selection
# ^ Source	To	Destination
1 c:\projects\12345*\	V8	c:\projects\12345-NLJ\
		Þ

15. **<D> Convert**

F	iles t	o Convert						
	#	Source	Format	Destination	То	Status	Time	-
	1	c:\projects\12345\Bridge\Drawi\12345BRDG Model.do	V8	c:\projects\12345\12345BRDG Model.do	1 V8	Up to date		
	2	c:\projects\12345\Bridge\Drawin\12345BRDG_Prof.dg	V8	c:\projects\12345\12345BRDG_Prof.dgn	V8	Up to date		
	3	c:\projects\12345\12345DES_EarthworkQuant##.dgn	V8	c:\proj\12345DES_EarthworkQuant##.dg	ı V8	Up to date		=
	4	c:\projects\12345\Desig\12345DES_GenINote##.dgn	V8	c:\projects\1\12345DES_GenINote##.dg	r V8	Up to date		
	5	c:\projects\12345\Design\Dr\12345DES_Plan##.dgn	V8	c:\projects\12345\12345DES_Plan##.dg	r V8	Pending		
	6	c:\projects\12345\Design\Dr\12345DES_PnP##.dgn	V8	c:\projects\12345\12345DES_PnP##.dg	i V8	Up to date		
	7	c:\projects\12345\Design\Dr\12345DES_Prof##.dgn	V8	c:\projects\12345\12345DES_Prof##.dgr	1 V8	Up to date		
	8	c:\projects\12345\Design\Dr\12345DES_SAQ##.dgn	V8	c:\projects\12345\12345DES_SAQ##.dg	V8	Up to date		
	9	c:\projects\12345\Desig\12345DES_StdPlanList.dgn	V8	c:\projects\\12345DES_StdPlanList.dgn	V8	Up to date		
	10	c:\projects\12345\Design\Dr\12345DES_SWMP.dgn	V8	c:\projects\12345-N\12345DES_SWMP.e	: V8	Up to date		
	11	c:\projects\12345\Design\12345DES_TabConc##.dgn	V8	c:\projects\12\12345DES_TabConc##.dg	<u>c V8</u>	Up to date		
	12	c:\projects\12345\Design\12345DES_TabMisc##.dgn	V8	c:\projects\12\12345DES_TabMisc##.dg	i V8	Up to date		
	13	c:\projects\12345\Design\12345DES_TabMisc01.dgn	V8	c:\projects\12\12345DES_TabMisc01.dg	rV8	Up to date		
	14	c:\projects\12345\Design\12345DES_TabRem##.dgn	V8	c:\projects\123\12345DES_TabRem##.d	V8	Up to date		
	15	c:\projects\12345\Design\D\12345DES_TitleSht.dgn	V8	c:\projects\123\12345DES_TitleSht.dgn	V8	Up to date		
	16	c:\projects\12345\Desig\12345DES_TyplSect##.dgn	V8	c:\projects\1\12345DES_TyplSect##.dgr	n V8	Up to date		
	17	c:\projects\12345\Design\Draw\12345SURV_Tab.dgn	V8	c:\projects\12345-N\12345SURV_Tab.dg	, V8	Up to date		
	18	c:\projects\12345\Design\\12345SURV_WUTab.dgn	V8	c:\projects\12345\12345SURV_WUTab.	c V8	Up to date		
	19	c:\projects\123\M&S Standard Plans List Index.dgn	V8	c:\\M&S Standard Plans List Index.dgn	V8	Up to date		
	20	c:\projects\12345\Design\\12345DES_Interchange.dgr	- V8	c:\projects\\12345DES_Interchange.dgn	V8	Up to date		-
		Con	vert	Cancel				

- 16. The conversion process runs and the status column will be updated from *Pending to Converted* once completed. The *Up to date* items will not be processed.
- 17. When all the files have been converted **<D> Done**.

iles t	o Convert						
#	Source	Format	Destination	То	Status	Time	-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	c:\projects\12345\Bridge\Drawi\12345BRDG_Model.d c:\projects\12345\Bridge\Drawi\12345BRDG_Prof.dg c:\projects\12345\\Design\Dr\12345DES_EarthworkQuant##.dgn c:\projects\12345\Design\Dr\12345DES_Fanl##.dgn c:\projects\12345\Design\Dr\12345DES_Prof##.dgn c:\projects\12345\Design\Dr\12345DES_Prof##.dgn c:\projects\12345\Design\Dr\12345DES_Prof##.dgn c:\projects\12345\Design\Dr\12345DES_SMD##.dgn c:\projects\12345\Design\Dr\12345DES_SMD##.dgn c:\projects\12345\Design\Dr\12345DES_SMD##.dgn c:\projects\12345\Design\Dr\12345DES_SMD##.dgn c:\projects\12345\Design\12345DES_SMD##.dgn c:\projects\12345\Design\12345DES_TabHisc##.dgn c:\projects\12345\Design\12345DES_TabHisc##.dgn c:\projects\12345\Design\12345DES_TabHisc##.dgn c:\projects\12345\Design\12345DES_TabHisc##.dgn c:\projects\12345\Design\D\12345DES_TabHisc##.dgn c:\projects\12345\Design\D\12345DES_TabBes##.dgn c:\projects\12345\Design\D\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw\12345DES_TabBes##.dgn c:\projects\12345\Design\Draw12345DES_TabBes##.dgn c:\projects\12345\Design\Draw12345DES_TabBes##.dgn c:\projects\12345\Design\Draw12345DES_TabBes##.dgn c:\projects\12345\Design\	2 V8 V8 V8 V8 V8 V8 V8 V8 V8 V8	c:\projects\12345\12345BRDG_Model.dg c:\projects\12345\12345BRDG_Prof.dgr c:\projects\12345DES_EarthworkQuart##.dg c:\projects\12345DES_GerlNote##.dg c:\projects\12345\12345DES_Pn##.dg c:\projects\12345\12345DES_Pn##.dg c:\projects\12345\12345DES_Pn##.dg c:\projects\12345\12345DES_SAP#.di c:\projects\12345\12345DES_SAP#.di c:\projects\12345DES_SAP#.anList.dgn c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\123\12345DES_TabMisc##.dg c:\projects\12345DES_TabMisc##.dg c:\projects\12345DES_TabMisc##.dg c:\projects\12345DES_TabSe##.dgn c:\projects\12345DES_TabSe##.dgn c:\projects\12345DES_TabSe##.dgn c:\projects\12345DES_TabSe##.dgn c:\projects\12345DES_TabSe##.dgn c:\projects\12345DES_TabBisc##.dgn c:\projects\12345DE	V8 V8 V8 V8 V8 V8 V8 V8 V8 V8 V8 V8 V8 V	Up to date Up to date	1.0	
]		ne	Cancel				

18. Take time to verify your data. The translation will only build folders and copy the translated data. You will need to copy all missing folders and data from you original project to the translated project folder. When folders and data have been verified, either delete or archive your original project folder and rename the translated project folder by removing your initials. This step will ensure that all references will display.

Converting Levels in MicroStation

- 1. From the *MicroStation Manager*, Open a drawing file.
- 2. Open the User preferences by clicking Workspace > Preferences

3. Select the *Look and Feel Category*

- 4. Toggle on the option for *Use Windows File Open Dialogs*. Turn this feature off will allow a toggle later to open all files in a directory.
- 5. Select File > Save As.

<mark>بار</mark> د:	C:\Projects\12345\Design\Drawings\12345DES_Pr							
<u>F</u> ile	e <u>E</u> dit	E <u>l</u> ement	<u>S</u> ettings	<u>T</u> ools	<u>U</u> tilities			
2	<u>N</u> ew			C	trl+N			
10	Open			C	trl+0			
	<u>C</u> lose			C	Ctrl+W			
8	Save			C	Ctrl+S			
	Save <u>A</u> s							
	Compre	ess			•			
	Sa <u>v</u> e Se	ttings		Ctrl+F				
B	Item Br	o <u>w</u> ser						
-	Project	Explorer						
	Referen	ces						
	Raster N	/lana <u>q</u> er						
0	Point C	louds						
٥	Mode <u>l</u> s							
S	P <u>u</u> blish	i-model						
	<u>I</u> mport				+			
	Export				+			

6. Enter a new name into the *File name:* field to rename the current open drawing file, then *<D>* Options.

📕 Save As - C:\Pi	rojects\12345\Design\Drawings\			×
Save in:	Drawings	- G 👂 🖻	 ▼ (*)	3D - V8 DGN
(Pa	Name	Date modified	Туре	
	Ali 12345DES_PnP01.dgn	2/18/2010 12:21 PM	Bentley MicroSta	
Recent Places	🛃 12345DES_PnP02.dgn	12/10/2010 8:23 AM	Bentley MicroSta	THE REPORT
	🛃 12345DES_PnP03.dgn	2/18/2010 12:21 PM	Bentley MicroSta	
	🛃 12345DES_PnP04.dgn	2/18/2010 12:22 PM	Bentley MicroSta ⊨	
Desktop	All 12345DES_PnP05.dgn	2/18/2010 12:22 PM	Bentley MicroSta	
<u> </u>	🛃12345DES_PnP06.dgn	2/18/2010 12:22 PM	Bentley MicroSta	
	A12345DES_PnP07.dgn	2/18/2010 12:23 PM	Bentley MicroSta	
Libraries	🛃 12345DES_PnP08.dgn	2/18/2010 12:23 PM	Bentley MicroSta	
	🛃 12345DES_PnP09.dgn	2/18/2010 12:23 PM	Bentley MicroSta	
	M12345DES_PnP10.dgn	2/18/2010 12:24 PM	Bentley MicroSta	
Computer	🛃 12345DES_PnP11.dgn	2/18/2010 12:24 PM	Bentley MicroSta	
	12345DES_PnP12.dgn	2/18/2010 12:24 PM	Bentley MicroSta	
	M12345DES PnP13.dan	2/18/2010 12:25 PM	Bentlev MicroSta	
Network				
	File name: 12345DES_PnP02a.dgn	-	Save	
	Save as type: Micro Station V8 DGN File	•s (*.dgn) 🔹 🔻	Cancel	
			Options	

7. A standard CSV file is located in the configuration which is already set up to remap all of the previous versions' levels to the standard CDOT MicroStation V03.01 levels. The CDOT configuration automatically loads the remapping CSV file.

Save As V8 Options Remap References Filter					
CSV File V050000_Level_Update.csv	۹ 😤 🗅				
Apply Level Mapping Apply Font Mapping Apply Line Style Mapping Apply Color Mapping Apply Weight Mapping					
<u>O</u> K Cancel					

8. By chance the file is not found, in the *Save As V8 Options* dialog box, <D> the *Browse for CSV remapping file* icon.



9. Navigate to C:\Workspace\Workspace-CDOT_V8i\Standards-Global\MicroStation \Tables\Level_Translation. Select the file V03.02_Level_Conversion.csv. <D> OK.

Select Remapping CSV File C:\Workspace\Workspace-CDOT_V8i\Standards-Global\MicroStation\Tables\Level_Translation\							
Look in:]] Level_Translat	tion 👻	G 🤌 📂 🛄 -		3 🖲		
C	Name		Date modified	Туре	Size		
Recent Places	(📳 V050000_Lev	el_Update.csv	10/15/2010 10:59	Microsoft Office E	22 KB		
Desktop							
Libraries							
Computer							
Network	File <u>n</u> ame:	V050000_Level_Update.csv			✓ <u>O</u> pen		
	Files of type:	Remapping Files (*.csv)			Cancel		

10. In the *Save As V8 Options* dialog box, check **On** the option to *Apply Level Mapping*. <D> OK.

Save As V8 Options					
Remap References Filter					
CSV File V050000_Level_Update.csv Apply Level Mapping Apply Font Mapping Apply Line Style Mapping Apply Color Mapping Apply Weight Mapping	۹ 🕿 🕻				
QK Cancel					

11. **<D>** OK in the *Save As* dialog box. The CSV file will execute and the previous levels will be converted to the updated levels in the V03.01 configuration release.

Save in:	Drawings		- G 🦻 🛛	ی 🕂 🕄	3D - V8 DGN
(Pa	Name		Date modified	Туре	
e la	🕺 12345DES_Pr	nP01.dgn	2/18/2010 12:21 PM	Bentley MicroSta	
Recent Places	🔏 12345DES_Pr	nP02.dgn	12/10/2010 8:23 AM	Bentley MicroSta	JULY LEVEL OF
	🕺 12345DES_Pr	nP03.dgn	2/18/2010 12:21 PM	Bentley MicroSta	
	🕺 12345DES_Pr	nP04.dgn	2/18/2010 12:22 PM	Bentley MicroSta ≡	
Desktop	🕺 12345DES_Pr	nP05.dgn	2/18/2010 12:22 PM	Bentley MicroSta	
<u></u>	🕺 12345DES_Pr	nP06.dgn	2/18/2010 12:22 PM	Bentley MicroSta	
6 9	🕺 12345DES_Pr	nP07.dgn	2/18/2010 12:23 PM	Bentley MicroSta	
Libraries	🔏 12345DES_Pr	nP08.dgn	2/18/2010 12:23 PM	Bentley MicroSta	
	🕺 12345DES_Pr	nP09.dgn	2/18/2010 12:23 PM	Bentley MicroSta	1
	🔏 12345DES_Pr	nP10.dgn	2/18/2010 12:24 PM	Bentley MicroSta	
Computer	🛃 12345DES_PnP11.dgn		2/18/2010 12:24 PM	Bentley MicroSta	
	🕺 12345DES_Pr	nP12.dgn	2/18/2010 12:24 PM	Bentley MicroSta	
	12345DES Pr	nP13.dan	2/18/2010 12:25 PM	Bentlev MicroSta *	
Network	•			•	_
	File name:	12345DES_PnP02a	a.dgn	 Save 	
	Save as type:	MicroStation V8 DG	N Files (*.dgn)	Cancel]

Note: Once the new file is created, there will be two files with the same data. From windows explorer delete the old file and rename the newly created file to the old name. This will allow all reference file calls to be correct and will eliminate having duplicate data

Compressing the Model File

1. After the level updates have been made to the drawing files created in previous versions, select *File > Compress Design > Options*.



2. In the *Compress Options* window, all options should be checked on except *Delete Text Elements Containing Only Spaces.* <D> the *Compress* button, then <D> OK.

-	📕 Compress Op	ptions	×	
	Select	Action	Alias	
		Delete Empty Cell Headers	EMPTY_CELL	
H	V	Delete Empty Text Elements	EMPTY_TEXT	
l		Delete Text Elements Containing Only Spaces	SPACE_TEXT	
11	\checkmark	Delete Pre 8.11 Render Setup Entries	RENDER_SETUP	
Ш		Delete Unused Named Shared Cells	SC_NAMED	
		Delete Unused Anonymous Shared Cells	SC_ANON	
		Delete Unused Line Styles	LINESTYLES	
		Delete Unused Dimension Styles	DIMSTYLES	
		Delete Unused Text Styles	TEXTSTYLES	
		Delete Unused Levels	LEVELS	
		Delete Unused Nested Attachment Levels	LEVELTABLES	
		Delete Unused Multi-line Styles	MLINESTYLES	
	\checkmark	Delete Unused Element Templates	ELEMENTTEMPLATES	
	Compress	<u>O</u> K Cano	cel <u>Apply</u>	