

# **CDOT InRoads XM Project Defaults** Management

This document is specific for CDOT's implementation of *InRoads XM*. It describes the use of preconfigured InRoads Project default settings, the benefits of using them, and how to manage the resources and directory structure(s) they reference.

InRoads project defaults perform two functions; firstly they load the appropriate CDOT standard resource files such as the standard XIN file, annotation resources, XML style sheets, etc. Additionally they define default paths to project specific directory folders that contain project data such as DTM's, alignments, survey data, etc. The workflow shown below utilizes a *Project Configuration File* (PCF) which is created at the start of a project. This PCF file is created by running the *Project Creation Utility*. The resulting PCF stores system variables to simplify file management for the user. This PCF file is utilized by both the MicroStation and InRoads environments.

PCF files are extremely useful when multiple users are accessing the same project directory across the network, or when DGN files are moved from one directory to another. See the CDOT workflow document *Project Directory Creation and Management.pdf* for information specific to the creation and management of the PCF file.

# The Registry File

A preconfigured file is delivered with the XM release of CDOT's configuration. The user must access this file only once from the InRoads interface. After the initial access, the project defaults will be defined for all projects the user accesses on a specific computer.

Co Preferences		
File Edit View Favorites Tools Help		1
🕞 Back 🔹 🌍 - 🎓 🔎 Search 🞼	Folders	
Address 🗁 C:\Workspace\Workspace-CDOT_XM\St	andards-Global\InRoads\Preferences	👻 🄁 Go
Folders	× Name 📥	
Workspace     Workspace-CDOT_XM     CDOT Notes     Civil Data     Civil Data     Cross Clobal     Cross	CDOT_XM Disciplines.reg	
<	> <	>

1. To access the configuration file, launch InRoads XM and open the Project Defaults dialog by selecting File>Project Defaults from the InRoads interface.

Configuration Name:	<none></none>	<ul> <li>Apply</li> </ul>
Default Preferences		Close
Derauk Preferences		New
Preferences (*.xin):		Сору
Turnouts (*.txt):		Rename
Drainage Structures (*.dat):		Delete
Rainfall Data (*.idf):		Browce
Bridge Sections (*.txt):		biowsc
Drafting Notes (*.dft):		Import
Pay Items (*.mdb):		Export
		Help
<ul> <li>Default Directory Paths —</li> <li>ProjectWise Directory;</li> </ul>		
Project Default Directory:		
Report Directory:		
Projects (*.rwk):		
Surfaces (*.dtm):		
Geometry Projects (*.alg):		
Template Libraries (*.itl):		
Roadway Design (*.ird):		
Survey Data (*.fwd):		
Drainage (*.sdb):		
Style Sheet (*.xsl):		
Quantity Manager (*.mdb):		

2. Click on the **Import** button

 Browse to: C:\Workspace\Workspace-CDOT\_XM\Standards-Global\InRoads\Preferences select the file: CDOT\_XM Disciplines.reg

Open					? 🗙
Look in	Preference:	\$	•	🗢 🗈 💣 💷 •	
	CDOT_XM Di	sciplines.reg			
My Recent Documents		<u>, , , , , , , , , , , , , , , , , , , </u>			
B					
Desktop					
My Documents					
<b></b>					
My Computer	1				
	File name:	CDOT_XM Disciplines.reg		<u> </u>	Open
My Network Places	Files of type:	Registration Files (*.reg)		•	Cancel
					Help

4. Click on the **Open** button and three things happen; *Configuration Name, Default Preferences* and *Default Directory Paths* fields are populated.

Configuration Name:	CDOT Utilities Discipline	Apply
		Close
Default Telefences		New
Preferences (*.xin):		Сору
Turnouts (*.txt):		Bename
Drainage Structures (*.dat):		Delete
Rainfall Data (*.idf):		
Bridge Sections (*.txt):		Browse
Drafting Notes (*.dft):	\$(CDOT_WKSP)\Standards-Global\InRoads\Notes\CDOT-Notes.c	Import
Pay Items (*.mdb):		Export
		Help
Default Directory Paths		
Project Default Directory.		
Project Derault Directory.	\$(MS_DEF)Utilities\	
Preieste (* wyk):	\$(MS_DEF)Utilities\InHoads\	
Flojects ( .lwk).	\$[MS_DEF]Utilities\InRoads\	
Sunaces ( Juan).	\$[MS_DEF]Utilities\InRoads\	
Geometry Projects (".alg):	\$(MS_DEF)Utilities\InRoads\	
	\$(MS_DEF)Utilities\InRoads\	
Roadway Design (Lird):	\$(MS_DEF)Utilities\InRoads\	
Survey Data (".twd):	\$(MS_DEF)	
Drainage (".sdb):	\$(MS_DEF)	
Style Sheet (".xsi):	C:\Workspace\Workspace-CDOT_XM\Standards-Global\InRoads\XMI	L Style Sheets\
Quantity Manager (".mdb):	\$(MS_DEF)Utilities\InRoads\	
Default Grid Factor	Export	
Grid Eactor: 1 0000	Active Only	

Default Directory Paths are defined on a CDOT Discipline basis.

## **Setting Project Defaults**

1. Users can use the *Configuration Name* field to choose the appropriate discipline for the location of their data files.

🐂 Set Project Defaults		X
Configuration Name:	CDOT Utilities Discipline	Apply
- Default Preferences	<pre><none> CDOT Bridge Discipline CDOT Design Discipline CDOT Environmental Discipline CDOT Environmental Discipline CDOT Environmental Discipline</none></pre>	Close New
Preferences (*.xin):	CDOT Endotation Discipline	Сору
Turnouts (*.txt):	CDOT Materials_Geotechnical Discipline CDOT ROW_Survey Discipline	Rename
Drainage Structures (*.dat):	CDUT Traffic_TTS Discipline CDUT Utilities Discipline	Delete
Rainfall Data (*.idf):		Browse
Bridge Sections (*.txt):		
Drafting Notes (*.dft):	\$(CDOT_WKSP)\Standards-Global\InRoads\Notes\CDOT-Notes.c	Europhic
Pay Items (*.mdb):		Export
Dofault Directory Batha		Help
ProjectWise Directory:		
Project Default Directory:	\$(MS_DEF)Utilities\	
Report Directory:	\$(MS_DEF)Utilities\InRoads\	
Projects (*.rwk):	\$(MS_DEF)Utilities\InRoads\	
Surfaces (*.dtm):	\$(MS_DEF)Utilities\InRoads\	
Geometry Projects (*.alg):	\$(MS_DEF)Utilities\InRoads\	
Template Libraries (*.itl):	\$(MS_DEF)Utilities\InRoads\	
Roadway Design (*.ird):	\$(MS_DEF)Utilities\InRoads\	
Survey Data (*.fwd):	\$(MS_DEF)	
Drainage (*.sdb):	\$(MS_DEF)	
Style Sheet (*.xsl):	C:\Workspace\Workspace-CDOT_XM\Standards-Global\InRoads\X	ML Style Sheets\
Quantity Manager (*.mdb):	\$(MS_DEF)Utilities\InRoads\	
Default Grid Factor Grid Factor: 1.0000	Export Active Only	

2. By selecting a discipline specific *Configuration Name*, the path to for *Default Directories* is appropriately changed.

Configuration Name:	CDOT ROW_Survey Discipline	Apply
Default Preferences		Close
		New
Preferences (*.xin):	\$(CDOT_PREF)\CDOT_Civil.xin	Сору
Turnouts (*.txt):		Rename
Drainage Structures (*.dat):		Delete
Rainfall Data (*.idf):		Browse
Bridge Sections (*.txt):		Import
Drafting Notes (*.dft):	\$(CDOT_WKSP)\Standards-Global\InRoads\Notes\CDOT-Notes.c	
Pay Items (*.mdb):		Export
ProjectWise Directory:		
- Default Directory Paths		
Project Default Directory:	\$(MS_DEF)\ROW_Survey\	
Report Directory:	\$(MS_DEF)ROW_Survey\InRoads\Reports\	
Projects (*.rwk):	\$(MS_DEF)ROW_Survey\InRoads\	
Surfaces (*.dtm):	\$(MS_DEF)ROW_Survey\InRoads\DTM\	
Geometry Projects (*.alg):	\$(MS_DEF)ROW_Survey\InRoads\Geometry\	
Template Libraries (*.itl):	\$(MS_DEF)	
	\$(MS_DEF)	
Roadway Design (*.ird):	((())_D_D_D_)	
Roadway Design (*.ird): Survey Data (*.fwd):	\$(MS_DEF)ROW_Survey\InRoads\Field_Books\	
Roadway Design (*.ird): Survey Data (*.fwd): Drainage (*.sdb):	\$(MS_DEF)ROW_Survey\InRoads\Field_Books\ \$(MS_DEF)	
Roadway Design (*.ird): Survey Data (*.fwd): Drainage (*.sdb): Style Sheet (*.xsl):	\$(MS_DEF)ROW_Survey\InRoads\Field_Books\ \$(MS_DEF) C:\Workspace\Workspace-CDOT_XM\Standards-Global\InRoads\XML	Style Sheets\

3. The *Default Preferences* which load the standard CDOT configuration resources as well as the location of *the XML Style Sheets* are common to all disciplines

Configuration Name:	CDOT Design Discipline	Apply
Default Preferences		Close
		New
Preferences (*.xin):	\$(CDOT_PREF)\CDOT_Civil.xin	Сору
Turnouts (*.txt):		Rename
Drainage Structures (*.dat):		Delete
Rainfall Data (*.idf):		Browse
Bridge Sections (*.txt):		Less et
Drafting Notes (*.dft):	\$(CDOT_WKSP)\Standards-Global\InRoads\Notes\CDOT-Notes.c	Import
Pay Items (*.mdb):		Export
		Help
ProjectWise Directory Paths		- F
Project Default Directory:	\$(MS_DEF)Design\	
Report Directory:	\$(MS_DEF)Design\InRoads\	
Projects (*.rwk):	\$(MS_DEF)Design\InRoads\	
Surfaces (*.dtm):	\$(MS_DEF)Design\InRoads\	
Geometry Projects (*.alg):	\$(MS_DEF)Design\InRoads\	
	\$(MS_DEF)Design\InRoads\	
Template Libraries (*.itl):		
Template Libraries (*.itl): Roadway Design (*.ird):	\$(MS_DEF)Design\InRoads\	
Template Libraries (*.itl): Roadway Design (*.ird): Survey Data (*.fwd):	\$(MS_DEF)Design\InRoads\ \$(MS_DEF)	
Template Libraries (*.itl): Roadway Design (*.ird): Survey Data (*.fwd): Drainage (*.sdb):	\$(MS_DEF)Design\InRoads\ \$(MS_DEF) \$(MS_DEF)	
Template Libraries (*.itl): Roadway Design (*.ird): Survey Data (*.fwd): Drainage (*.sdb): Style Sheet (*.xsl):	\$(MS_DEF)Design\InRoads\ \$(MS_DEF) \$(MS_DEF) C:\Workspace\Workspace-CD0T_XM\Standards-Global\InRoads\XML	L Style Sheets\
Template Libraries (*.itl): Roadway Design (*.ird): Survey Data (*.fwd): Drainage (*.sdb): Style Sheet (*.ssl): Quantity Manager (*.mdb):	\$(MS_DEF)Design\InRoads\ \$(MS_DEF) \$(MS_DEF) C:\Workspace\Workspace-CDOT_XM\Standards-Global\InRoads\XML \$(MS_DEF)Design\InRoads\	L Style Sheets\

4. Three variables are used to facilitate the use of Project Defaults. Two of these variables are not impacted by interaction by the user.

**\$**(*CDOT\_PREF*) defines where the InRoads XIN file (master settings file) is stored.

*\$(CDOT\_WKSP)* points to the installation location for CDOT's configuration.

*\$(MS\_DEF)* defines the project currently being accessed. This variable is defined by individual users when opening a MicroStation file through the MicroStation Manager interface.

# **Using Project Defaults**

1. To realize the benefits of using project defaults, in the *Set Project Defaults dialog*, select any discipline from the *Configuration Name* drop-down list. Then Select the Apply & Close buttons.

Configuration Name:	CDOT ROW_Survey Discipline	Apply
Default Preferences		Close
		New
Preferences (*.xin):	\$(CDOT_PREF)\CDOT_Civil.xin	Сору
Turnouts (*.txt):		Rename
Drainage Structures (*.dat):		Delete
Rainfall Data (*.idf):		Browse
Bridge Sections (*.txt):		Import
Drafting Notes (*.dft):	\$(CDOT_WKSP)\Standards-Global\InRoads\Notes\CDOT-Notes.c	
Pay Items (*.mdb):		Export
Project Default Directory:	\$(MS_DEF)\ROW_Survey\	
- Default Directory Paths ProjectWise Directory		
Report Directory:	\$(MS_DEF)ROW_Survey\InRoads\Reports\	
Projects (*.rwk):	\$(MS_DEF)ROW_Survey\InRoads\	
Surfaces (*.dtm):	\$(MS_DEF)ROW_Survey\InRoads\DTM\	
Geometry Projects (*.alg):	\$(MS_DEF)ROW_Survey\InRoads\Geometry\	
Template Libraries (*.itl):	\$(MS_DEF)	
Roadway Design (*.ird):	\$(MS_DEF)	
Survey Data (*.fwd):	\$(MS_DEF)ROW_Survey\InRoads\Field_Books\	
Drainage (*.sdb):	\$(MS_DEF)	
Style Sheet (*.xsl):	C:\Workspace\Workspace-CDOT_XM\Standards-Global\InRoads\XML	Style Sheets\
Quantity Manager (*.mdb):	\$(MS_DEF)ROW_Survey\InRoads\Reports\	
Default Grid Factor	Export	
Grid Eactor: 1 0000	A shine Only	

2. From the InRoads interface, select File>Open

🗮 Be	ntley InRoads XM Edition	
Eile	<u>Surface Geometry Drainage Survey Evaluation M</u> odeler Dr <u>a</u> fting	<u>I</u> ools <u>H</u> elp
	New Ctrl+t ⊡pen Ctrl+t ≤ave Save <u>A</u> s	
	<u>C</u> lose Project Defaults	File Name By Whom     brysr
1	 Text Import Import Export Translators	• •
	1 K:\Proj\Colorado DOT III\Configura\InRoads\Geometry QCv89.alg 2 C:\Workspace\Workspace-CDOT_XM\Sta\Preferences\CDOT_Civil.xin 3 C:\Projects\12345\ROW_Surv\DTM\12345SURV_Surface_Existing.dtm	
	E <u>x</u> it	
	Surfaces 🔚 Geometry 🔨 🕨	
Sets th	e default directory paths for a project	

Open				? ×
Look in	: 🔁 ROW_Surv	/ey 💌	+ 🗈 📸 🖬 +	
My Recent Documents Desktop My Documents My Computer	Corresponde Drawings InRoads Research Survey Working	ence		
	File name:		•	Open
My Network	Files of type:	InRoads Files (*.rwk;*.dtm;*.alg;*.itl	;*.ird;*.sdb;*.1 💌	Cancel
1 10000	192 			Help

- Open ? 🗙 🖛 🗈 💣 🎟+ Look in: 🔁 ROW\_Survey -👌 My Recent Documents 🙆 Desktop 3 My Documents My Recent My Computer Documents 🥪 Local Disk (C:) B 🛅 Projects 16704 Desktop 📄 ROW\_Survey RESARIU\_RP TD 🥝 Audio CD (E:) EnvisionGroup Data on 'Spectrum' (K:) d drive on 'Viz\_server' (V:) My Documents My Sharing Folders QuickCam Profor Notebooks My Network Places My Computer File name: • Open InRoads Files (\*.rwk;\*.dtm;\*.alg;\*.itl;\*.ird;\*.sdb;\*.t 💌 Cancel Files of type: My Network Places Help
- 3. Note the active project and discipline folder is now defined

4. By choosing the desired *Files of Type:* the *Look In:* field updates to the appropriate folder for the active project.

Open					? 🔀
Look in:	Geometry		•	🗢 🗈 💣 📰	•
My Recent Documents Desktop	〒 12345_DESIGN 〒 12345ROW_RO 〒 12345ROW_RO 〒 12345ROW_Su 〒 123455URV_Fie	alg W.alg nmitBP.alg Idbook.alg			
My Documents My Computer					
	File name:			•	Open
My Network	Files of type:	Geometry Projects (*.	alg)	•	Cancel
Flaces					Help

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ijles:	Directories:	
R.	C:\Projects\16704\	3D - V8 DGN
	<ul> <li>C:\</li> <li>Projects</li> <li>16704</li> <li>Bridge</li> <li>Construction</li> <li>Consultants</li> <li>Design</li> <li>Hydraulics</li> <li>Landscape_Environmental</li> <li>Materials_Geotechnical</li> <li>Miscellaneous</li> <li>Planning</li> </ul>	
ist Files of <u>T</u> ype:	Dri <u>v</u> es:	01
CAD Files [*.dgn,*.dwg,*.dxf]		
 	DWG Options	Cancel
Show File I <u>c</u> ons		5. <del></del>
Workspace	User: CDOT User	

## The First Step - Setting the Project Default

- 1. In the MicroStation Manager dialog, the Project (PCF file) can be selected from the Workspace portion of the dialog box on the Project pull-down menu which will navigate you to the appropriate project folder and define the *MS\_DEF* variable.
- 2. As seen in the InRoads Project Default dialog, this variable (MS\_DEF) is used to as a *prefix* to automate folder locations used by InRoads.

<u>Note:</u> Refer to the graphic in step 6 to review the folder paths utilizing the MS\_DEF variable.

**Note:** The graphic below shows the contents of a PCF file and how the MS\_DEF variable is defined. By editing this ASCII file users can customize the MS\_DEF variable. This would be necessary if your folder structure changes and/or files are moved to different a different location such as to a project managers machine or external hard drive.

😼 16704.pcf - Notepad	
File Edit Format View Help	
# Project Directory	~
MS_DEF=C:/Projects/16704/	
MS_REDIRS\$(MS_DEE)Bridge/Drawings/	
MS_RFDIR>\$(MS_DEF)Bridge/Drawings/Reference_Files/	
MS_RFDIR>\$(MS_DEF)Construction/Drawings/	
MS_RFDIR>\$(MS_DEF)Construction/Drawings/Reference_Files/	
MS_REDIR>\$(MS_DEE)Landscape_Environmental/Drawings/	les/
MS_RFDIR>\$(MS_DEF)Hydraulics/Drawings/	(00)
MS_RFDIR>\$(MS_DEF)Hydraulics/Drawings/Reference_Files/	
MS_RFDIR>\$(MS_DEF)Materials_Geotechnical/Drawings/	6
<pre>[MS_REDIR&gt;3(MS_DEF)Materials_Geotechnical/Drawings/Reference_Fil [MS_REDIR&gt;\$(MS_DEF)Design/Drawings/</pre>	es/
MS_RFDIR>\$(MS_DEF)Design/Drawings/	
MS_RFDIR>\$(MS_DEF)ROW_SURVEY/Drawings/	
MS_RFDIR>\$(MS_DEF)ROW_SURVEY/Drawings/Reference_Files/	
MS_REDIR>3(MS_DEE)Traffic_TIS/Drawings/	
MS_REDIR>\$(MS_DEF)Utilities/Drawings/	
MS_RFDIR>\$(MS_DEF)Utilities/Drawings/Reference_Files/	
MS_PLTFILES=\$(MS_DEF)Plot_Sets/	
MS_DGNOUT=\$(MS_DEF)	
#	
#	
CDOT_WKSP=C:/Workspace/Workspace-CDOT_XM/	
CDOT_PREF=\$(CDOT_WKSP)/Standards-Global/InRoads/Preferences/	
	~
3	>

See the CDOT workflow document *CDOT Project Creation and Management.pdf* for more detailed information on working with the PCF file.