Microstation Connect Edition

Stephen Holmes and Robert Jones

Foster + Partners

Bentley User Group UK

Configuration

64bit OS / V8 DGN format

Workspace & Worksets

DGNLIB's

Preferences and Settings
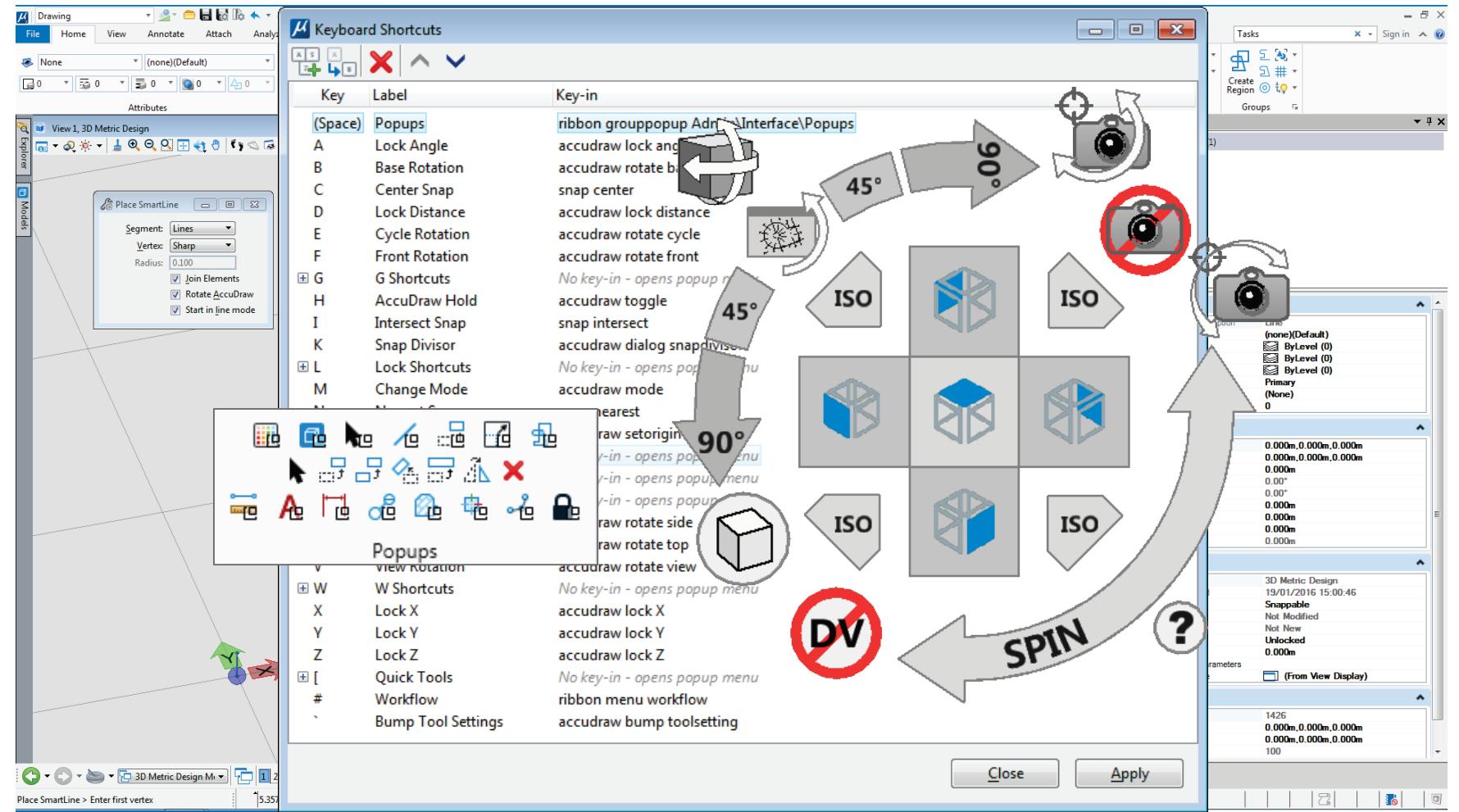
- Sheet Index
- Explorer link sets
- User Interface - Ribbon / Tools / Task customizations
- Levels
- Level filters
- Line styles
- Text styles
- Dimension styles
- Multi-line styles
- Element templates
- Detailing symbol styles
- Display styles
- Cells
- Print styles
- Standards Checker settings
- User

Interface

Welcome Page

Interface

Input

Explorer
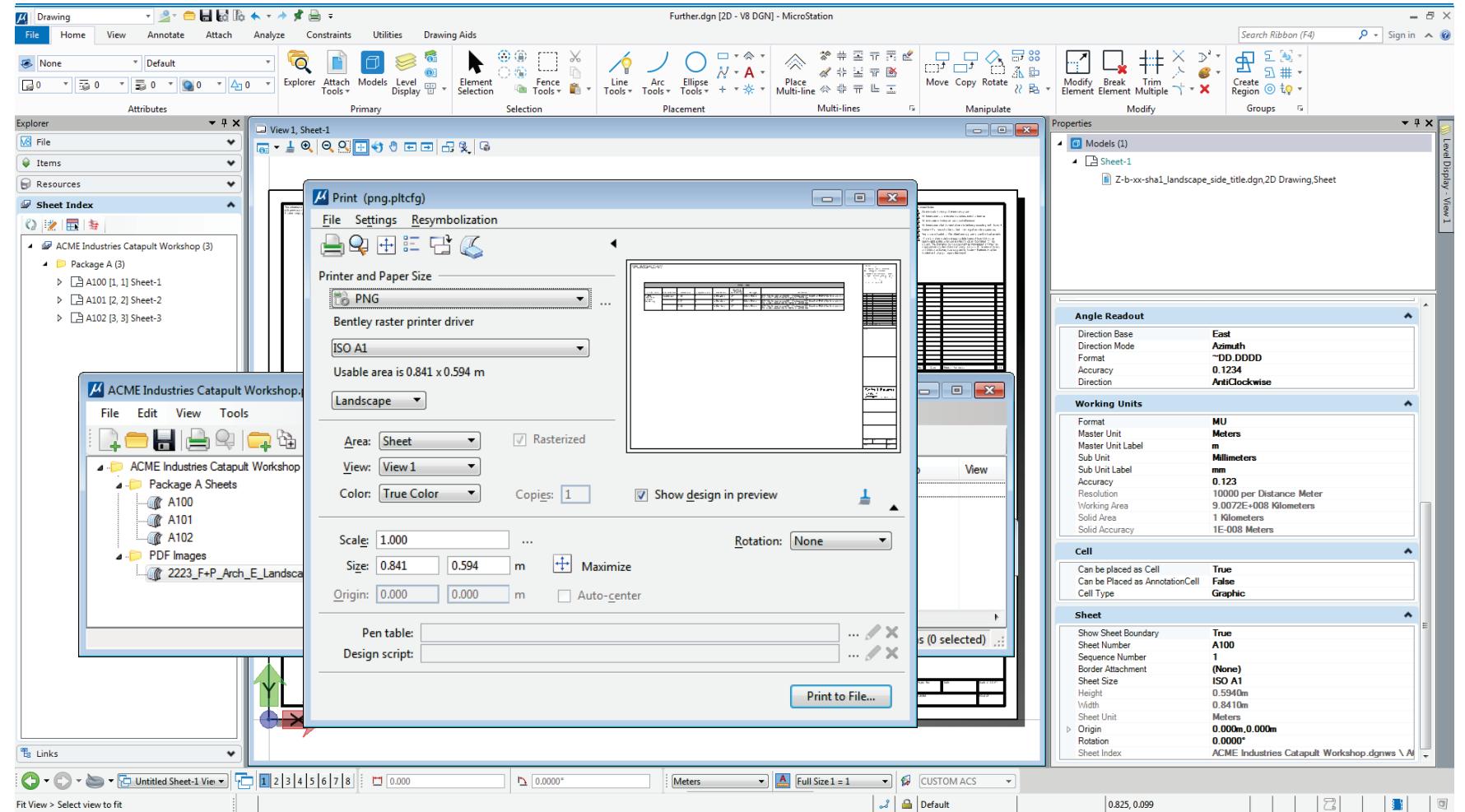
Explorer
&
Properties

Unified selections

Sheet Indexing

Printing
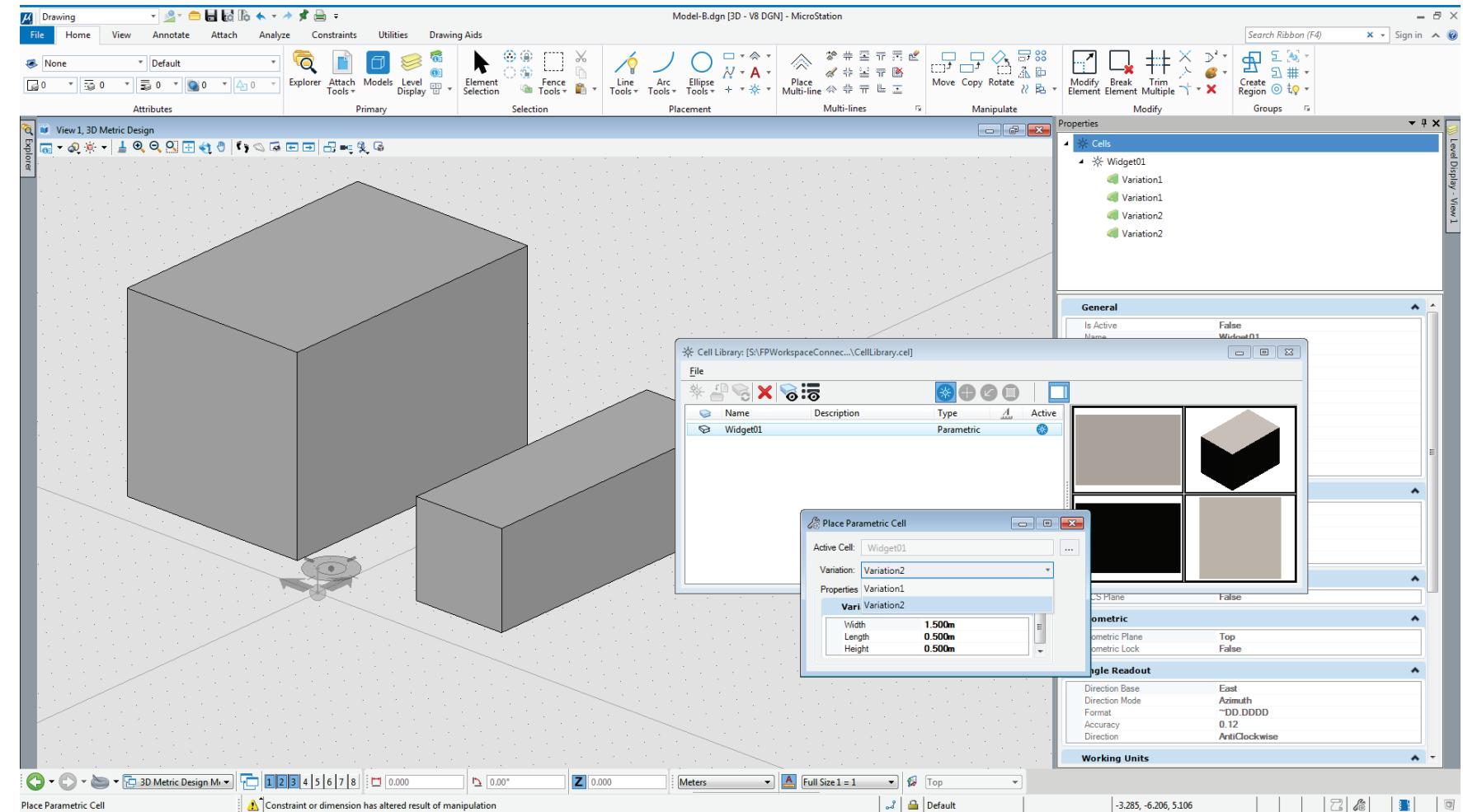
Modelling

Legacy modelling

Constraints & parameters

2D profiles

3D features

Parametric cells

Information
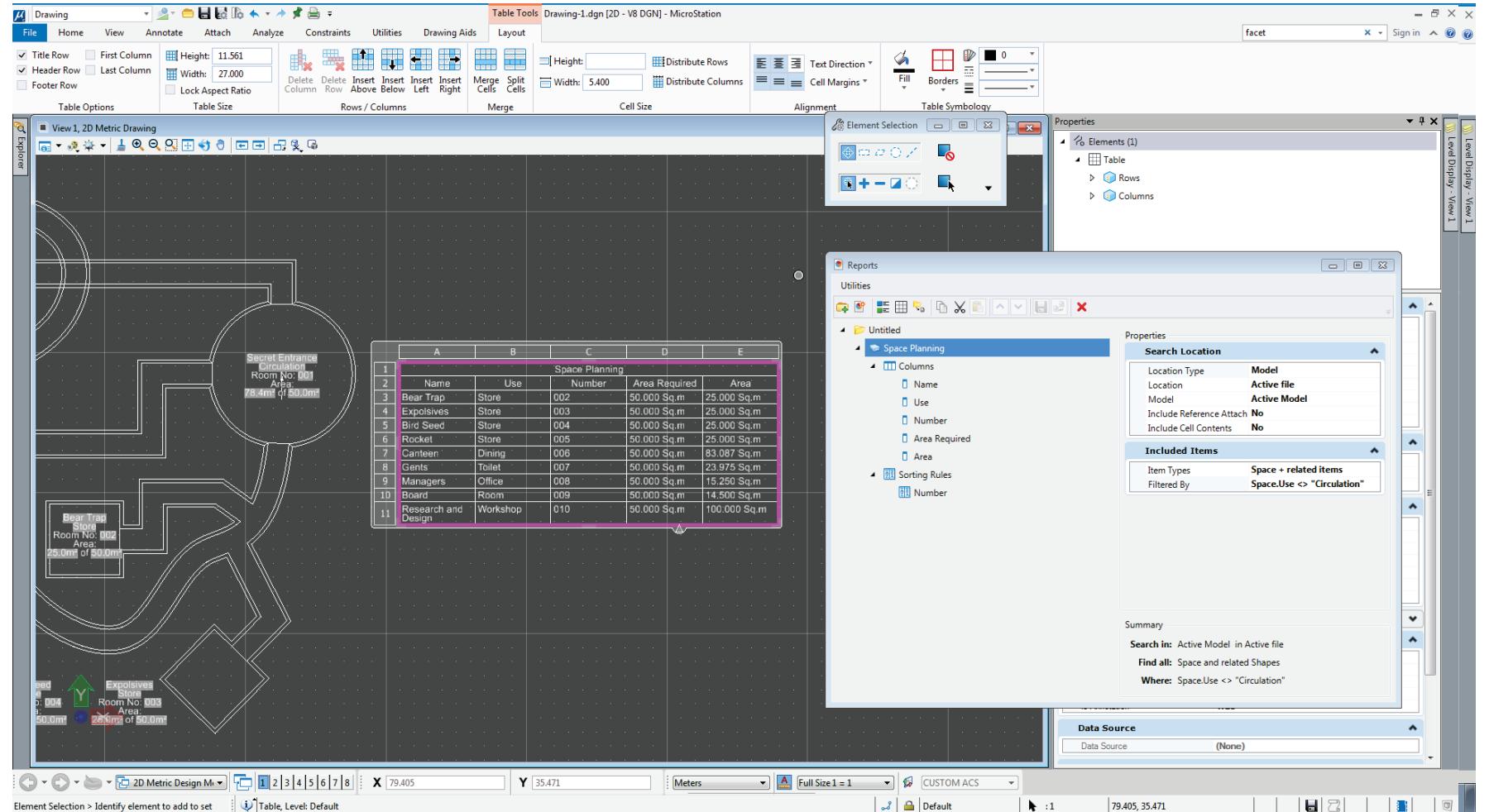
Item types

Placing Text

Placing Labels

Reports
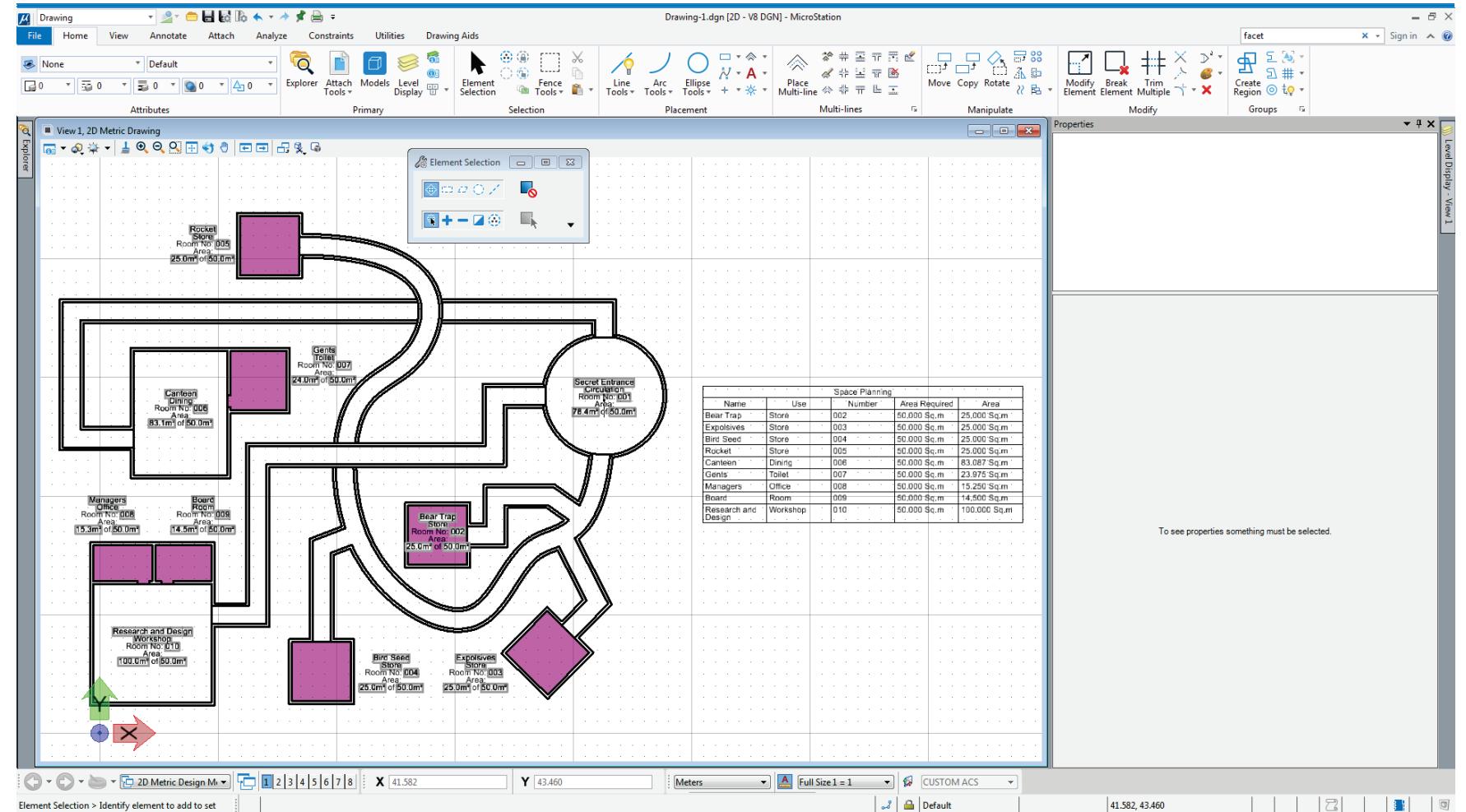
Tables

Display

Display styles

Style rules

Other Improvements

Visualisation
    New engine
    New material settings
    Constraints geometry respected in animation

Dynamic Views
    Point Clouds display in clip plane
    Plan stepped cuts

Named Boundaries
    Setting up multiple zoned Sheets
    Best fit scaling

Reference Cached views
    Faster Delta update

Annotation scale aware patterning

Unit aware dialogs

Integration of reality models

Connect over the cloud

Interoperability

Help

Deprecated

Tags
- Upgrade to item types

Engineering links
- Link now got through explorer

Legacy Geometry
- solids/surfaces/DDD/feature

MicroStation BASIC
- Replaced by macro recorder

MDL
- Previous versions needs to be rewritten

Where is Everything Now

Name	Microstation SS3	Microstation CE
Application		
C:\	\program files(x86)\Bentley	\program files\Bentley
Workspace - Configuration		
C:\ProgramData\Bentley	\MicroStation V8i (SELECTseries)\Workspace	\CONNECT Edition\Configuration

Mslocal.cfg
_USTN_CONFIGURATION = C:\ProgramData\Bentley\CONNECT Edition\Configuration\

Option: You can leave this configuration variable alone and just edit the WorkSpaceSetup.cfg
in the root of the default configuration folder (see slide 19)

Workspace Differences

Microstation SS3	Microstation CE
System	System
Application/Database	Application
Standards	Organization
-	Workspace
Project	Workset
-	Role
User	User

System Folder – Bentley Defaults

C:\Program Files\Bentley\MicroStation CONNECT Edition\MicroStation\Default

_USTN_SYSTEMROOT

Moved into Program Files

Workspace – Site Settings

_USTN_ORGANIZATION

Defines you company standards folders location

(Replaces _USTN_SITE)

Any Configuration file (.cfg) in the root of this folder is loaded at Organization Level

Workspace – Standards and Project Settings

WorkSpaceSetup.cfg   (_USTN_DISPLAYALLCFGVARS = 1)

In Root of your Configuration (_USTN_CONFIGURATION)

Global Company Standards

MY_ORGANIZATION_LOCATION = S:/FPWorkspaceConnect001/Organization/

%if defined (MY_ORGANIZATION_LOCATION) && exists ($(MY_ORGANIZATION_LOCATION))

  _USTN_ORGANIZATION = $(MY_ORGANIZATION_LOCATION)

%endif

Project Standards

MY_WORKSPACES_LOCATION = S:/FPWorkspaceConnect001/Workspaces/

 %if defined (MY_WORKSPACES_LOCATION) && exists ($(MY_WORKSPACES_LOCATION))

   _USTN_WORKSPACESROOT = $(MY_WORKSPACES_LOCATION)

%endif

Workspace Configuration – grouping projects

In Root of Workspace Folder - cfg file named the same as the Workspace sub folder

_USTN_WORKSPACEROOT   = $(_USTN_WORKSPACESROOT)$(_USTN_WORKSPACENAME)/

_USTN_WORKSPACESTANDARDS   = $(_USTN_WORKSPACEROOT)Standards/

_USTN_WORKSETSROOT   = $(_USTN_WORKSPACEROOT)Worksets/

Plus any Variables to set config standards across all projects in this workspace group

Workset – Project Configuration Files

Cfg file in the Worksets Sub Folder

Set Project specific configuration as required

_USTN_WORKSETROOT = $(_USTN_WORKSETSROOT)$(_USTN_WORKSETNAME)/

_USTN_WORKSETSTANDARDS   = $(_USTN_WORKSETROOT)Standards/

_USTN_WORKSETDGNS   = $(_USTN_WORKSETROOT)Dgn/
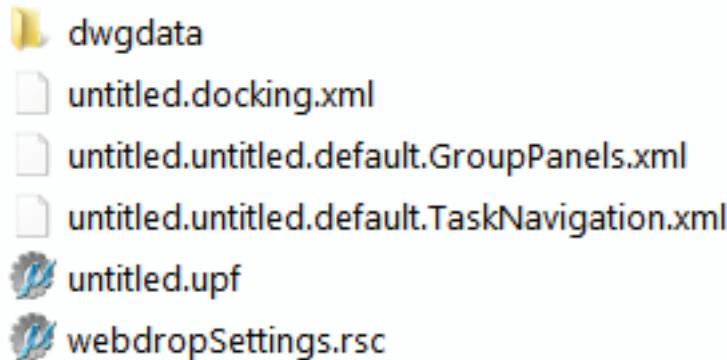
_USTN_OUT   = $(_USTN_WORKSETROOT)Out/

Where are my user settings ?

C:\Users*yourname*\AppData\Local\Bentley\MicroStation\...

Microstation SS3

8.11\o_Dof88niaENmS1PChQ4Mg\prefs

- 📁 dwgdata
- 📄 untitled.docking.xml
- 📄 untitled.untitled.default.GroupPanels.xml
- 📄 untitled.untitled.default.TaskNavigation.xml
- 🔷 untitled.upf
- 🔷 webdropSettings.rsc
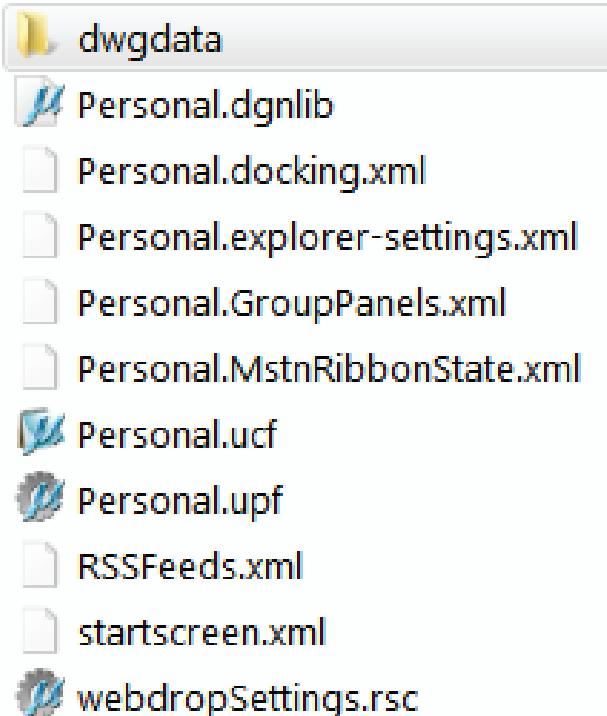
Path Defined By:

_USTN_HOMEROOT : $(_USTN_LocalUserAppDataPath)

_USTN_UserAppDataPath   - For Roaming

Microstation CE

10.0.0\prefs

- 📁 dwgdata
- 🔷 Personal.dgnlib
- 📄 Personal.docking.xml
- 📄 Personal.explorer-settings.xml
- 📄 Personal.GroupPanels.xml
- 📄 Personal.MstnRibbonState.xml
- 🔷 Personal.ucf
- 🔷 Personal.upf
- 📄 RSSFeeds.xml
- 📄 startscreen.xml
- 🔷 webdropSettings.rsc

Setting Load Order of Config Variables

0) System Level	%level System	
1) Application Level	%level Application	
2) Organization Level	%level Organization	(Site)
3) WorkSpace Level	%level Workspace	(New Level)
4) WorkSet Level	%level WorkSet	(Project)
5) Role Level	%level Role	(New Level)
6) User Level	%level User	

Now you can set by word not number of level

%include S:\myconfig.cfg level System

New Syntax for Config Variables

<>=:   now you can **+** to append to end of existing variable definition

New Pre-Processor Commands

WORKSETROOT = C:\programdata\bentely\connect edition\workspaces\clients\

firstdirpiece (_USTN_WORKSETCFG)   returns   programdata

lastdirpiece (_USTN_WORKSETCFG)   returns   clients

Read value of windows registry entry

PWDIR=registryread("HKEY_CURRENT_USER\SOFTWARE\Bentley\ProjectWise\Path")

Useful Key-Ins for Administration

expand echo $(_dgnfile)

Returns full path of variable in the message centre

expand set $(MS_REFDIR) > S:\project\dgn

Temporarily set a variable value just for your MicroStation session

show configuration

Loads out the configuration current values to a text file

DGNWS (dgn workset) Files

Each dgn file gets branded with a dgnws file link inside it.

Each workset cfg has a dgnws file created when first project used

If the name of the dgnws embedded in the dgn file you open does not match the current active workset - you get a warning…

Batch Association

FILE ASSOCIATEWORKSET and FILEDESIGN SAVE SETTINGS

New Command Line Switches

-ws   Sets starting Workspace

-ww   Set starting Workset

Thank You

Bug

Bentley User Group UK

Stephen Holmes   sholmes@fosterandpartners.com

Robert Jones   rjones@fosterandpartners.com