



Burns & McDonnell

**Managed Workspaces – Presented by
David Haskin**



ProjectWise – Managed Workspaces

In this session, learn how to simplify standards enforcement while working in ProjectWise. Managed Workspaces give the ProjectWise Administrator the ability to force the correct design and detailing standard when working in MicroStation platform products. Find out what should be included/excluded from a Managed Workspace, how content is imported and configured and how Managed Workspaces are applied to projects in ProjectWise.

- Import existing workspace resources into ProjectWise
- Configure MicroStation to work with, not against ProjectWise
- Configure ProjectWise to manage your resources
- Apply a Managed Workspace to projects in ProjectWise

- Take advantage of existing configuration outside of ProjectWise
- Works with all MicroStation platform products
 - Ability to select specific users, projects and user interface
 - Configuration can be local or network based
- Works with AutoCAD platform products
 - Ability to select specific AutoCAD profiles
 - Configuration can be local or network based

- Workspace and associated resources live in ProjectWise and are “streamed” to the user
- Works with all MicroStation platform products
- Includes additional configuration levels not available “out of the box” with MicroStation
- When a configuration or resource is modified the user will be updated when they open MicroStation
- No support for Autodesk products



Why Use Managed Workspaces?

- Takes the guess work out of which user and project should be used when opening a file
- Ensures that the proper standard is being used, all the time
- When an update is made the end user gets it automatically
- Is difficult for “tweakers” to bypass
- Provides a simplified means of passing standards to external users



What Should I include?

- Shared MicroStation Configuration; users, projects, clients...
- Shared MicroStation Resources; fonts, cell libraries, seed files, dgnlib's, plot drivers...
- Shared Vertical Application Resources; d&c databases, survey manager databases, datagroup catalogs...
- Shared Project Resources; borders, dgnlib's, cell libraries, seed files, documentation, references...



What Should Be Excluded?

- User specific data
- Delivered application configuration...
- Delivered application data...
- BBES (AECOSim Building Designer Electrical) datasets
- Promis*e and SubStation components
- Configuration that points to data outside of ProjectWise that an external user would not have access to...

- Define separate site configurations for stand-alone MicroStation and MicroStation using Managed Workspaces
- Disable ProjectWise integration in your non-managed site configuration
- Define separate user preferences so users don't browse the local ProjectWise data cache

- Separate Site Configurations

```
%if defined(PW_MANAGEDWORKSPACEENABLED)
    %if exists (C:/Localworkspace/BentleyManaged.txt)
        %include C:/Localworkspace/BentleyManaged.txt
    %else
        %if exists (C:/Localworkspace/Bentley.txt)
            %include C:/Localworkspace/Bentley.txt
        %endif
    %endif
```

- Disabling Integration

```
%if !defined (_PWEXPLORER)
    PW_DISABLE_INTEGRATION = 1
%endif
```

- Separate User Preferences

```
%if defined(PW_MANAGEDWORKSPACEENABLED)
    MS_USERPREF = $(USERPROFILE)/$(USERNAME)pw.upf
%else
    MS_USERPREF = $(USERPROFILE)/$(USERNAME).upf
%endif
```

- ProjectWise includes a “Wizard” to help build your Managed Workspace
- Will import both configuration and resources
- Will allow you to “connect the dots” as you import your data
- Depending on your level of experience you may want to consider starting from scratch



Cons of Using the “Wizard”

- Depending on how you’re configured, you may have to take multiple passes to grab all of your configuration and data
- Will not import “if/then” statements or other directives
- May error out if it can’t understand your setup
- Will likely pull in data that you don’t want or need



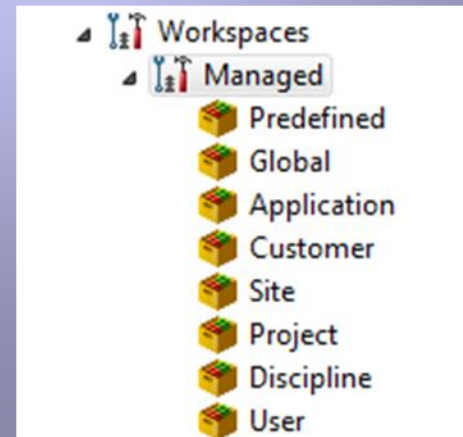
BYOD (Bring Your Own Data)

- You can drag and drop data directly from Windows Explorer
- Allows you to predefine your desired folder structure in ProjectWise
- When grabbing files you can use standard Windows controls to select or deselect data
- If you're happy with your current setup, the “wizard” includes options to pull in your workspace “as-is”

- Your Managed Workspace will likely be in a different location than your project data
- All users will need to be able to read folders and files from this location
- Power Users will need the ability to write to this location to update data
- Don't forget about your external users!

- Configuration Levels in MicroStation are synonymous with Configuration Blocks in ProjectWise
- MicroStation uses 5, ProjectWise offers 8
 - MicroStation
 - ProjectWise

```
#-----  
#  
# Levels are defined as follows:  
# 0) system Level  
# 1) Application Level  
# 2) Site Level  
# 3) Project Level  
# 4) User Level  
#  
#-----
```





Configuration Considerations

- A ProjectWise Managed Workspace will blend, with your MicroStation configuration
 - Local application variables overwrite Global and Application Configuration Blocks
 - Use a Site Level Configuration Block instead
- Delivered Application Configurations should not be touched
- Wildcards can be used but “may” degrade performance
- Don’t forget about your external users!



Deciding on Configuration Blocks

- You likely won't use all 8 levels of configuration
- Things like “Site” and “User” configurations may be easier to configure outside of ProjectWise

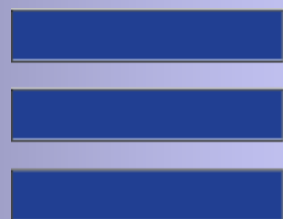


Configuration Block Suggestions

- Global – good for forcing settings to be used by everyone, e.g. I want everyone to use GEOPAK or InRoads on a project
- Customer – good for defining client standards, can be set at a client root folder
- Project – can be dynamic for automation or specific for unique projects
- Discipline – can be used to load things like level libraries, cell libraries or custom tasks (interface)

- Use `$(DMS_PROJECT(_DGNDIR))` to path to project specific resources
- Eliminates the need for creating a project level Configuration Block for each project
 - Project structure needs to be consistent
 - Can be applied to your template so every project gets it when created

- Right-click on your folders
 - Select “Properties” from the pop-up menu
 - Click the “Workspace” tab (make sure it’s toggled to “Managed”)
 - “Double-click” on the level and pick the Configuration Block you want to assign
- Warn your staff!!!
 - ...And external users!!!
- The first click will download the workspace, after that it’s all DFT 😊



Burns & McDonnell

Title of Presentation

**Thanks for Attending.
Have a Great Day.**