

Agenda

What's new in ProjectWise 2023

- Improved software download experience
- Security Enhancement
- User Account Enhancement
- Licensing Changes
- ProjectWise Clients and Desktop Applications version compatibility matrix


ProjectWise Cloud


- What is (and is not) ProjectWise Cloud
- Review the 'rules' for moving to ProjectWise Cloud
- ProjectWise Cloud upgrade process

ProjectWise 2023

Is a software that you can download from Bentley.com

On-premises ProjectWise datasource only

 ProjectWise Explorer Client

 ProjectWise Design Integration Server

The ProjectWise system of collaboration servers and services ensures information mobility with integrity for AECO information used in the design and construction of infrastructure projects while the work is in progress.

Major Version: 2023.6
Version: 23.06.03.12
Language: English
Architecture: x64
Deliverable Type: Installer

[Apply](#) [Clear](#)

ProjectWise 2023 Update 6 (SES) - Server Setups (English) ⓘ				Download
Version:23.06.03.12	Date:05/20/2024	Size:1713 MB	System Requirements	Support Status
Version:23.06.03.12	Date:05/20/2024	Size:1704 MB	System Requirements	Support Status

ProjectWise 2023

Bundles ProjectWise Client Software (ProjectWise Administration Web Browser Access to ProjectWise space.

Bentley Web

Plug-in for V

Download.



ProjectWise Explorer Client

ProjectWise Explorer Client connects people and information across distributed project teams. NOTE: Only ProjectWise Explorer Client 10.00.03.4xx requires all users to pay for their own license.

Major Version	Version	Language	Architecture	Deliverable Type	Apply	Clear
-Select-	23.06.03.12	English	-Select-	Installer		

ProjectWise 2023 Update 6 (SES) - Admin Setups (English) ⓘ

Download

Version:23.06.03.12 Date:05/20/2024 Size:1878 MB System Requirements Support Status

ProjectWise 2023 Update 6 (SES) - Client Setups (English) ⓘ

Download

Version:23.06.03.12 Date:05/20/2024 Size:1704 MB System Requirements Support Status

ProjectWise 2023

On-Premises/Bentley hosted ProjectWise Datasources

ProjectWise Clients (Explorer and Administrator) – **Windows 10 and Windows 11 (64 bit)**

On-Premises ProjectWise Datasources only

Supported Databases - MS SQL Server 2022, 2019 (64 bit) as well as Oracle Database 21c

Note: This version is the final ProjectWise release to support Oracle databases. It is advised to consider moving to SQL Server or Bentley-hosted ProjectWise solutions.

Supported Operating System – ProjectWise Design Integration Server – Windows Server 2022

[ProjectWise Version Support Matrix](#)

Bentley | ProjectWise Version Support Matrix

[ProjectWise Version Support Matrix](#) > ProjectWise 2023

ProjectWise 2023

ProjectWise 2023 supports the following operating systems, databases, and applications.

This page will be updated as new information becomes available - in particular, as new versions of applications are released and tested with ProjectWise 2023.

- ProjectWise Version Support Matrix
 - ProjectWise 2024
 - ProjectWise 2023**
 - ProjectWise CONNECT Edition Update 3.4 and earlier

ProjectWise 2023

Security Enhancement - On-Premises ProjectWise Datasources

Secure Connection (Certificate) to ProjectWise Server is required

ProjectWise Design Integration Server, Caching Server, Gateway server, etc.

Security Enhancement for File Access Token Servers

ProjectWise Caching Server – manage your ProjectWise storage

```
; Example:  
; FileAccessTokenServers=server1.domain.com,server2.domain.com  
;
```

Security Enhancement for Automated File Processing

ProjectWise Admin computer must be added to [Trusted Server] section in the dmskrnl.cfg file

ProjectWise Admin User setting Administrative > Enable as delegate user

ProjectWise Admin User setting General > Credential expiration policy > No expiration

ProjectWise Admin User setting General > Enable as Service Account

Nothing - if
your
ProjectWise is
hosted by
Bentley ☺

ProjectWise 2023

ProjectWise Design Integration 2023 backward compatibility with ProjectWise Explorer

ProjectWise Explorer 2023 (all versions)	●
ProjectWise Explorer CONNECT Edition Update 3.4 (10.00.03.434, 10.00.03.453)	●
ProjectWise Explorer CONNECT Edition Update 3.3 (10.00.03.329, 10.00.03.334, 10.00.03.336)	●
ProjectWise Explorer CONNECT Edition Update 3.2 (10.00.03.262, 10.00.03.271, 10.00.03.280, 10.00.03.298, 10.00.03.299)	●
ProjectWise Explorer CONNECT Edition Update 3.1 (10.00.03.140, 10.00.03.167)	●
ProjectWise Explorer CONNECT Edition Update 3.0 (10.00.03.49)	●
ProjectWise Explorer CONNECT Edition Update 2 (10.00.02.96, 10.00.02.203, 10.00.02.265, 10.00.02.320)	●

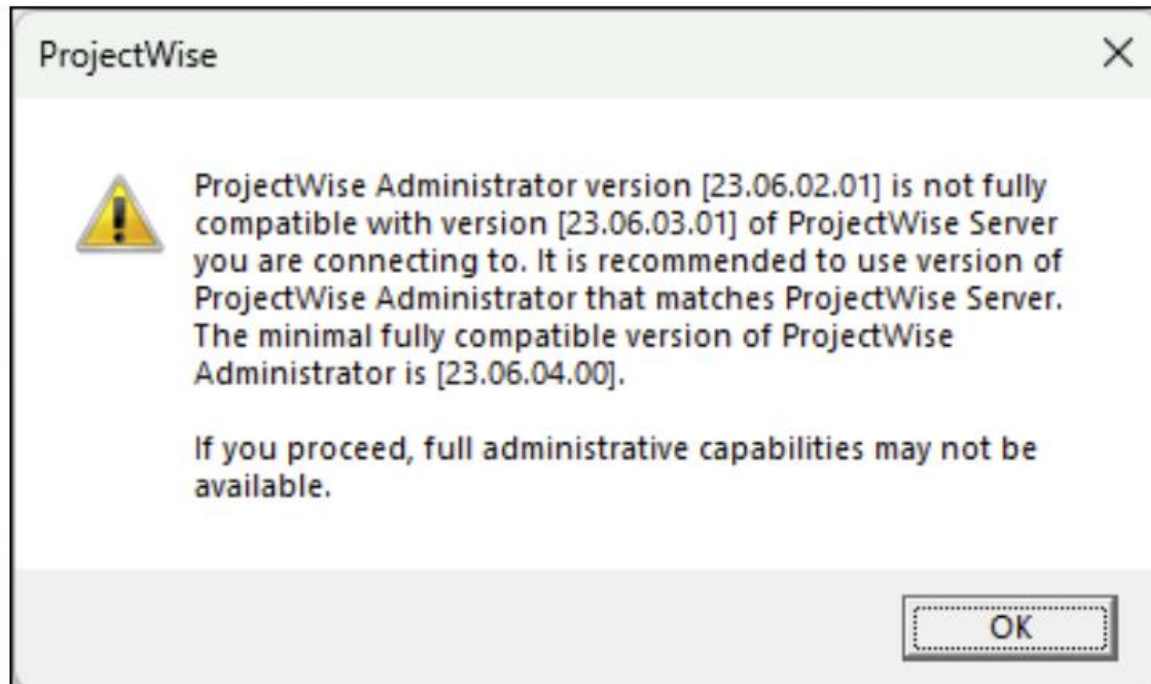
- ● = supported
- ● = compatible (no longer actively supported according to Bentley's Fixed Lifecycle Policy, but should have the same past compatibility with ProjectWise)

ProjectWise 2023

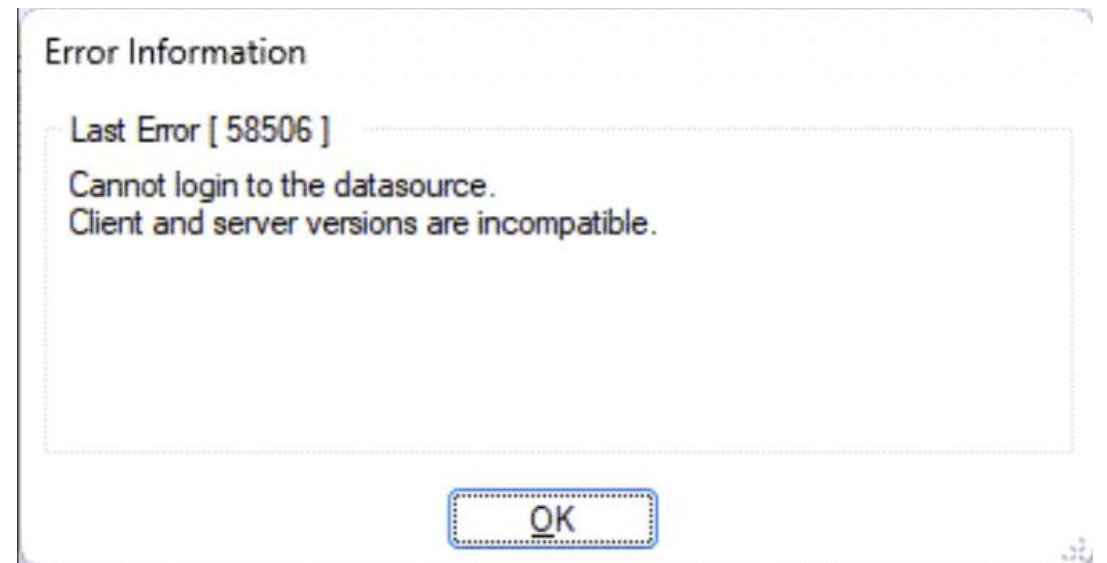
ProjectWise Design Integration 2023 compatibility with ProjectWise Administrator

Warning Message only.

ProjectWise Administrator (2023.06.03.xx) and forward - partially compatible and safe to log in.



ProjectWise Administrator (2023.06.03.xx) and forward – Safety net feature built in to prevent administrator from connecting.



ProjectWise 2023

ProjectWise Design Integration 2023 – Full SES Licensing Support

Subscription Entitlement Service (SES) - integrate with Bentley IMS (Connection Client) to allow near real time reporting of usage.

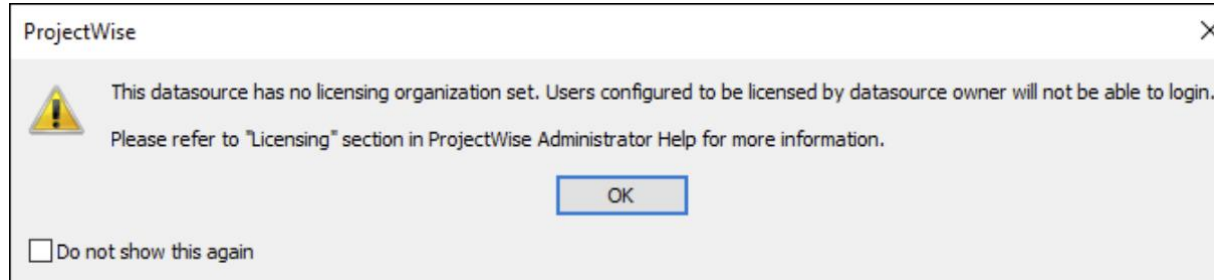
ProjectWise Design Integration CONNECT Edition x64 - Client Setups (English) <i>i</i>					Download
Version:10.00.03.299	Date:02/18/2021	Size:1067 MB	System Requirements	Support Status	
ProjectWise Design Integration CONNECT Edition x64 (SES) - Client Setups (English) <i>i</i>					Download
Version:10.00.03.434	Date:11/30/2020	Size:958 MB	System Requirements	Support Status	
ProjectWise Design Integration CONNECT Edition x64 (SES) - Client Setups (English) <i>i</i>					Download
Version:10.00.03.453	Date:07/15/2021	Size:978 MB	System Requirements	Support Status	

PW CONNECT Edition
Update 3.4

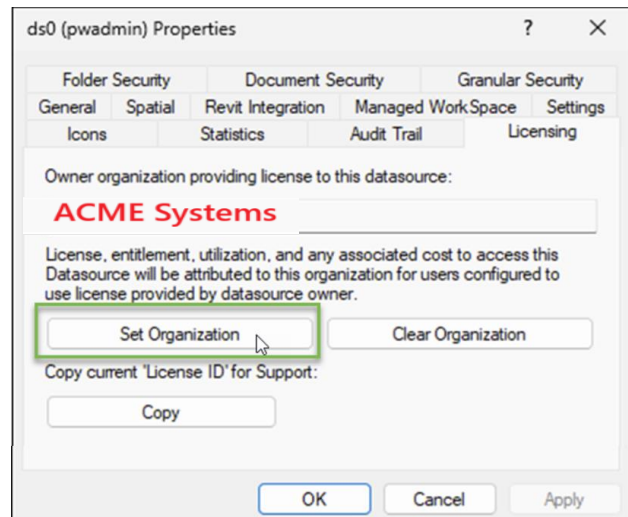
ProjectWise 2023 Update 6 (SES) - Server Setups (English) <i>i</i>					Download
Version:23.06.03.12	Date:05/20/2024	Size:1713 MB	System Requirements	Support Status	

ProjectWise 2023

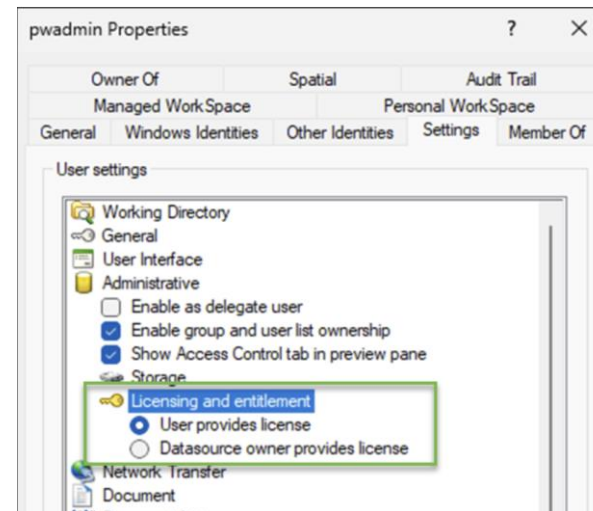
ProjectWise Design Integration 2023 – Full SES Licensing Support



Datasource Setting



User Setting



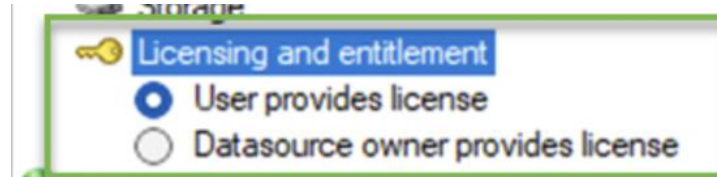
Must have **Co-Administrator** or **CONNECT Services Admin** role in Bentley User Management

ProjectWise 2023

ProjectWise Design Integration 2023 – Full SES Licensing Support

ProjectWise Clients
(Explorer/Admin)

ProjectWise
Server 2023



If Licensing = Clear Organization, BYOL
If Licensing = Set Organization, Per User Licensing Setting

If Licensing = Clear Organization, BYOL
If Licensing = Set Organization, Per User Licensing Setting

BYOL

Note: ProjectWise Explorer Update 3.4 ignores the ProjectWise Server setting

ProjectWise 2023

Bentley Desktop Applications with ProjectWise Explorer 2023 (Level of integration)

[ProjectWise - The Levels of ProjectWise Design Integration Application Integration - Communities](#)

AutoPIPE	1	OpenBuildings Speedikon	3	OpenRoads SignCAD	1
Bentley Cable and Raceway Management (BRCM)	3	OpenCities Map	3	OpenSite Designer	3
Bentley View	2	OpenPlant Isometrics Manager	2	OpenTunnel Designer	3
Civil IModel Bridge	-	OpenPlant Modeler	3	PLAXIS 2D	1
ISM Revit Link	1	OpenPlant Orthographics Manager	1	PLAXIS 3D	1
MicroStation	3	OpenPlant PID	3	PLAXIS Monopile Designer	-
MicroStation PowerDraft (discontinued)	3	OpenPlant Project Administrator	0	Promis.e	3
OpenBridge Designer	2	OpenPlant Support Engineering	3	ProStructures	3
OpenBridge Modeler	3	OpenRail Designer	3	RAM Structural System	1
OpenBuildings Designer	3	OpenRail ConceptStation	1	RM Bridge	-
		OpenRoads Designer	3	SACS	2
		OpenRoads ConceptStation	1	STAAD.Pro	1
				Structural Synchronizer	1
				Substation	3

Level 1 Integration

Open/Save As Document into ProjectWise
 Checkin/Checkout/Update Server Copy

Level 2 Integration

Reference Polling
 Export master with references
 Reference healing on move or rename
 Scan for references

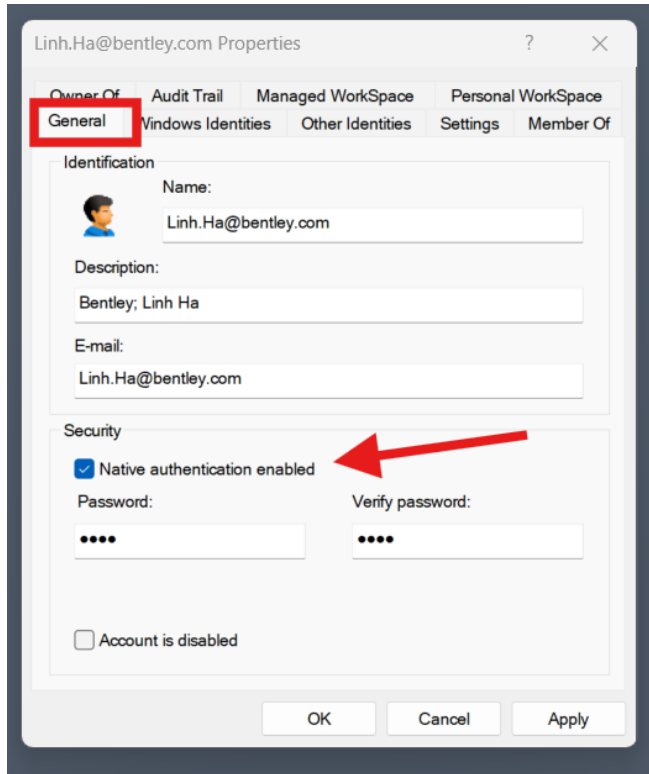
Level 3 Integration

Ability to control MicroStation Workspaces from ProjectWise environments.

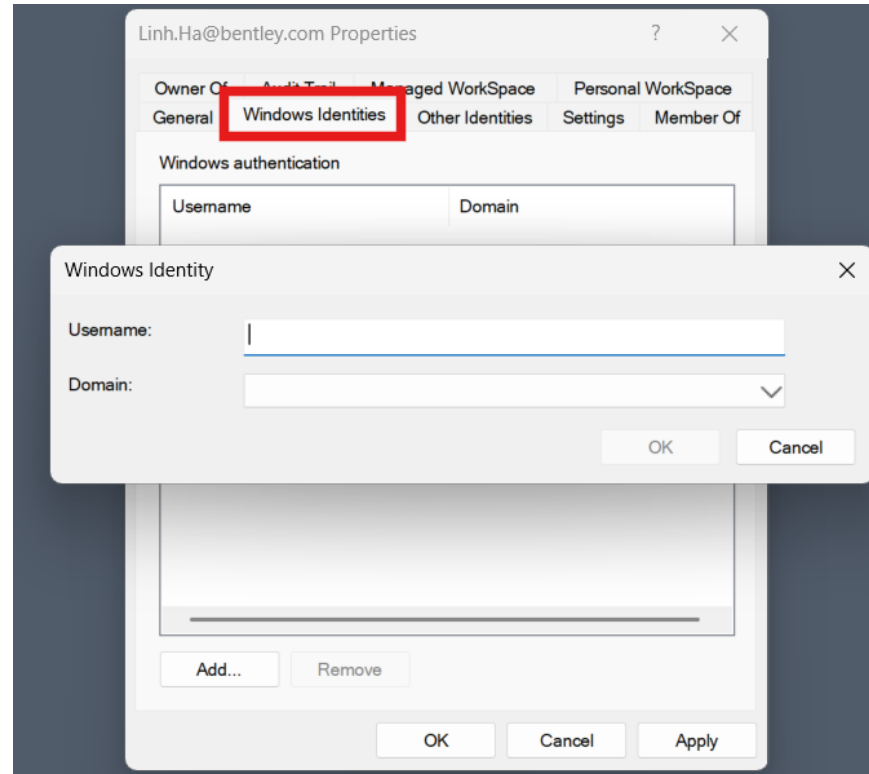
ProjectWise 2023

User Account Improvement

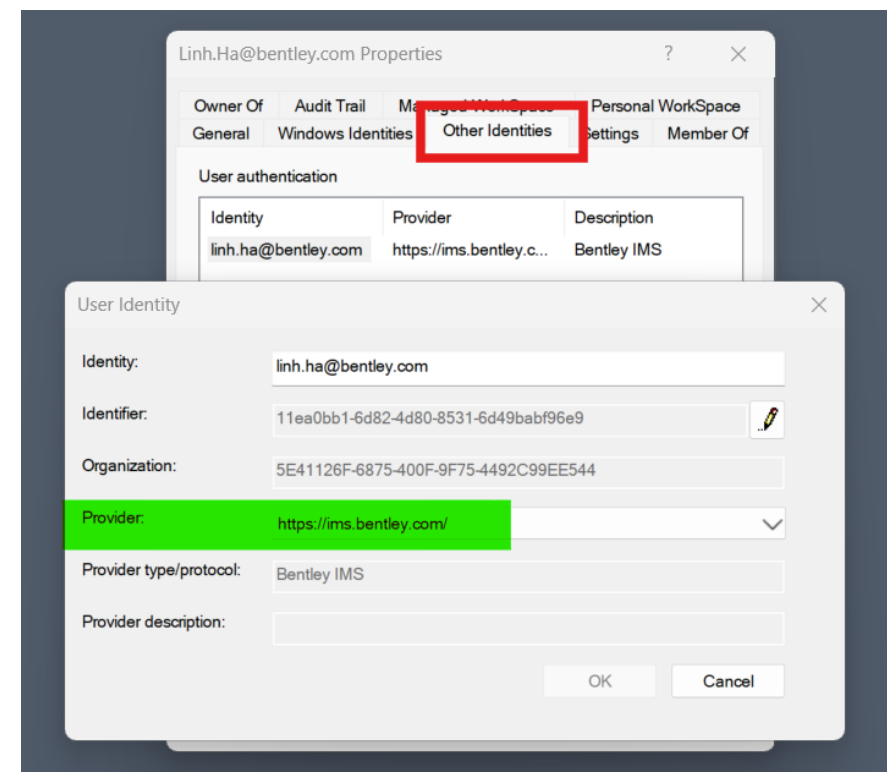
ProjectWise Logical (Native Authentication)



Windows Accounts - On premises ProjectWise only



Bentley IMS accounts and other Identity providers



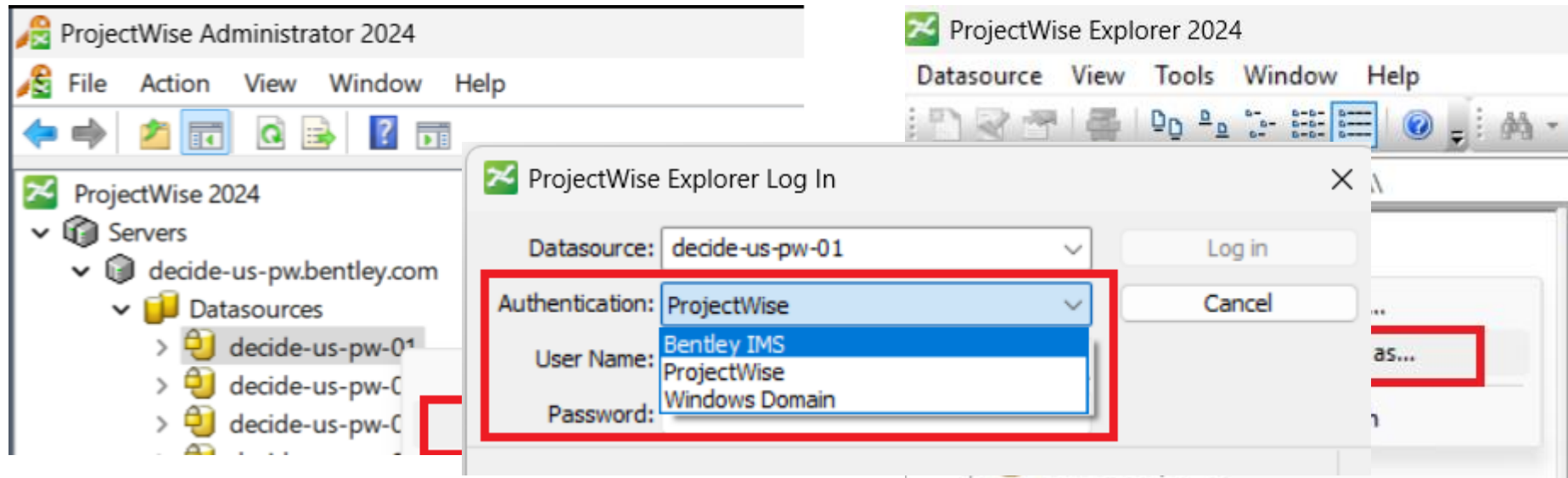
ProjectWise 2023

User Account Improvement – one username to remember

ProjectWise Logical
(Native Authentication)

Windows Accounts -
On premises ProjectWise only

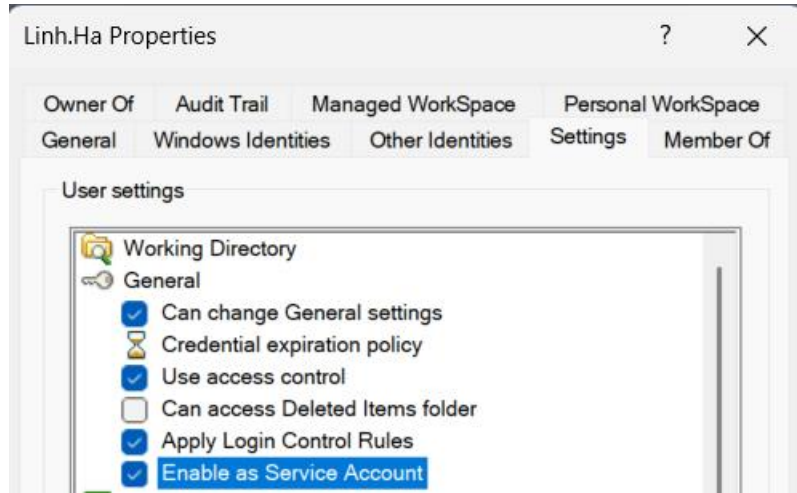
Bentley IMS accounts and other
Identity providers



ProjectWise 2023

New User Settings -

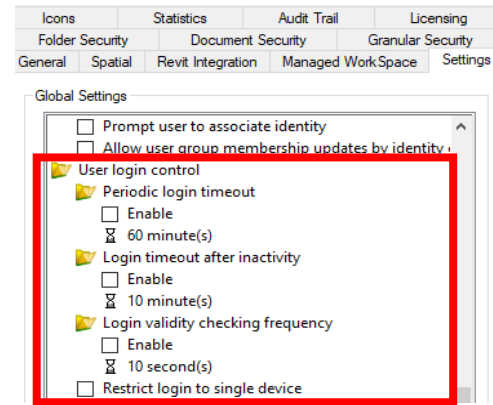
Enable as Service Account



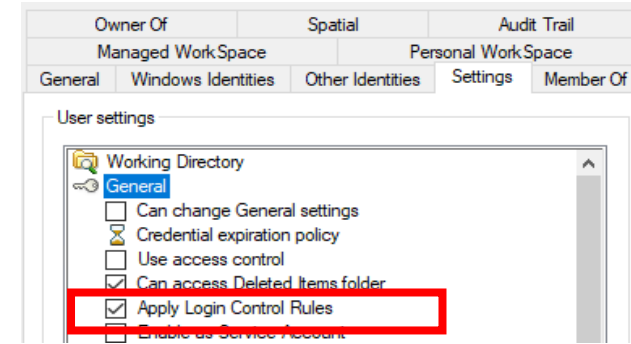
A service account is one that is intended only to be used by a service, such as Automated File Processing (full text indexing, thumbnail image extraction, file properties extraction). This account does not need a license.

Apply Login Control Rules

Datasource Setting



User Setting



User login control

Note: After configuring these global datasource settings, you can turn on the **General > Apply Login Control Rules** user setting for each user that you want these datasource settings to apply to.

Setting	Description
Periodic login timeout	If on, then once a user logs in, their login remains active for the amount of time set here. After the set time is up, their login times out, and the next action they try to perform will prompt them to log in again.
Login timeout after inactivity	If on, then once a user logs in, their login remains active until the user is detected to be inactive for the amount of time set here. After the set time is up, their login times out, and the next action they try to perform will prompt them to log in again.
Login validity checking frequency	By default, once a user is logged in and they try to perform an action, ProjectWise will check to see if the user's login is still valid. If ProjectWise has already performed this check for the user within the last 60 seconds, it will skip the check. If you want to increase or decrease the time between checks, turn on this setting and change the amount of time as needed.
Restrict login to single device	If on, a user can only be logged in from one device at a time.

ProjectWise 2023

On-Premises ProjectWise datasource(s) only

ProjectWise User Sync Service - is no longer available.

Please don't shoot the messenger!

How to Sync Windows (Active Directory) groups and users into ProjectWise??

ProjectWise 2023

How to Sync Windows (Active Directory) groups and users into ProjectWise datasources??

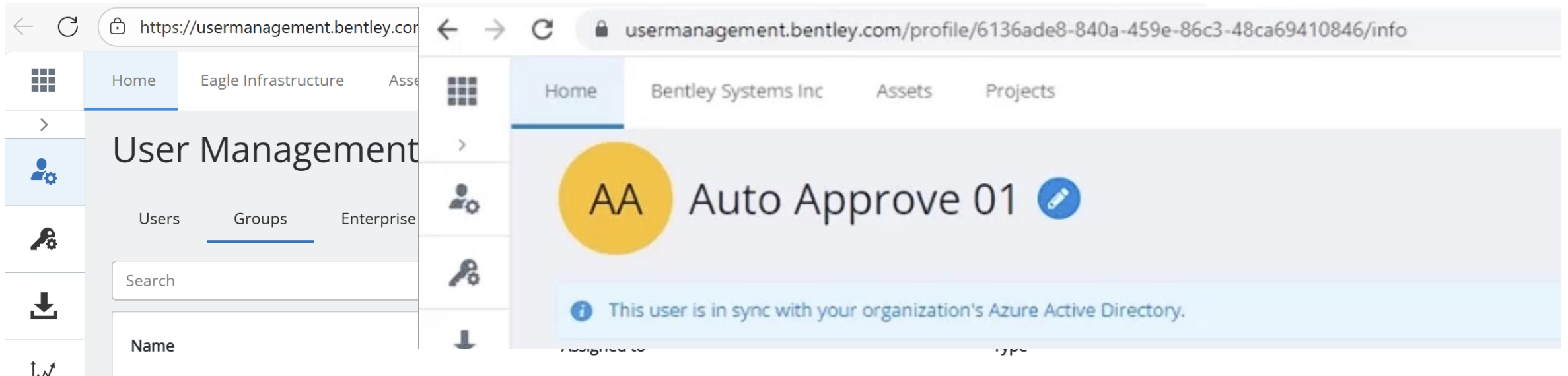
User Synchronization via IMS

Can be Bentley hosted/on-Premises ProjectWise datasources.

Step 1: Sync your AD groups to Bentley User Management portal

[User Management and Identity - Microsoft Azure AD Automatic User Provisioning Configuration - Communities](#)

Outcome from step 1: in [Home Page – UserManagement](#), your AD groups will be displayed, and the type is set to “Sync”

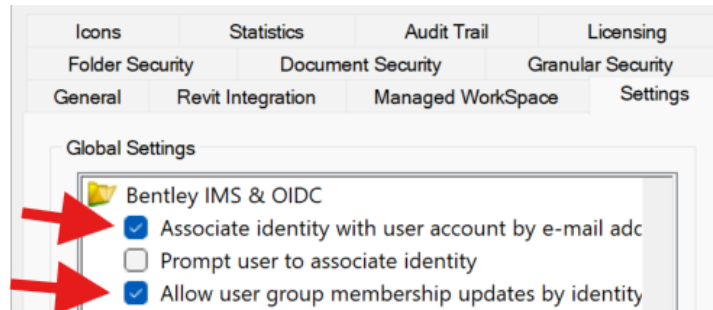


ProjectWise 2023

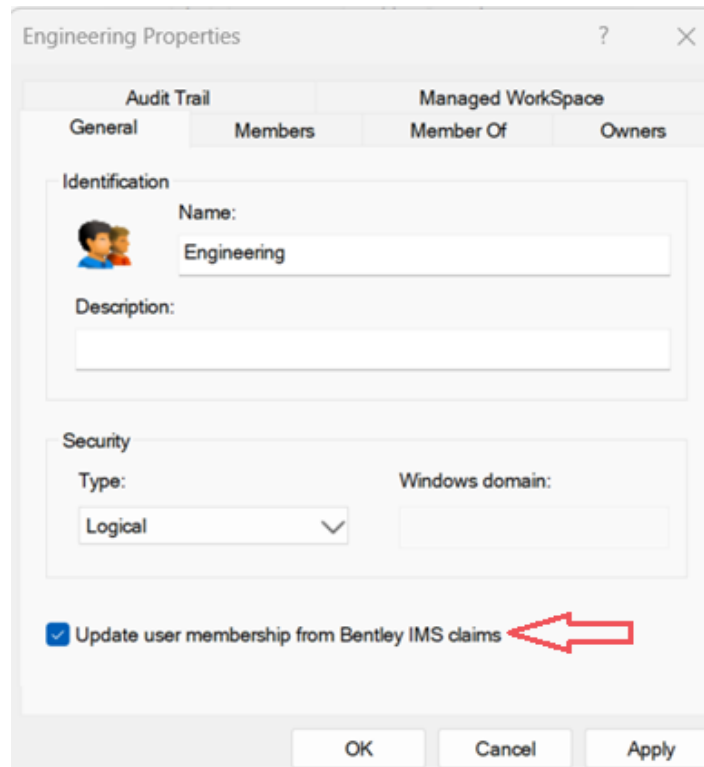
User Synchronization via IMS - continue

Step 2: Prepare ProjectWise for Synchronization

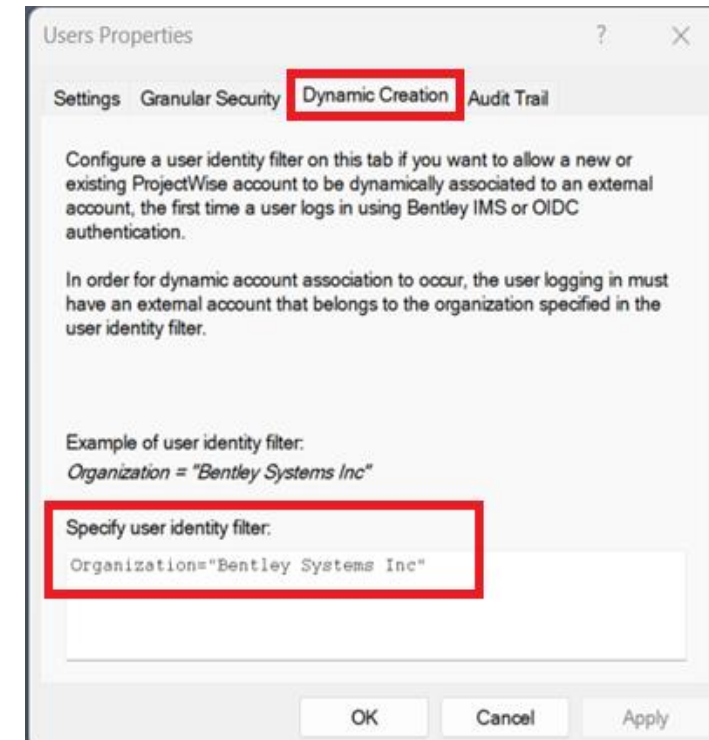
Datasource settings



Group settings – same AD group name



User settings



ProjectWise 2023

Linking a Bentley IMS account to an existing ProjectWise User via email

Existing ProjectWise user

Linh.Ha Properties

Owner Of: Audit Trail, Managed WorkSpace, Personal WorkSpace
General, Windows Identities, Other Identities, Settings, Member Of

Identification

Name:

Description:

E-mail:

Datasource Settings

Icons, Statistics, Audit Trail, Licensing
Folder Security, Document Security, Granular Security
General, Revit Integration, Managed WorkSpace, Settings

Global Settings

Bentley IMS & OIDC

- Associate identity with user account by e-mail address
- Prompt user to associate identity
- Allow user group membership updates by identity

User Properties → Dynamic Creation

Users Properties

Settings, Granular Security, **Dynamic Creation**, Audit Trail

Configure a user identity filter on this tab if you want to allow a new or existing ProjectWise account to be dynamically associated to an external account, the first time a user logs in using Bentley IMS or OIDC authentication.

In order for dynamic account association to occur, the user logging in must have an external account that belongs to the organization specified in the user identity filter.

Example of user identity filter:
Organization = "Bentley Systems Inc"

Specify user identity filter:

OK, Cancel, Apply

Linh.Ha Properties

Owner Of: Audit Trail, Managed WorkSpace, Personal WorkSpace
General, Windows Identities, **Other Identities**, Settings, Member Of

User authentication

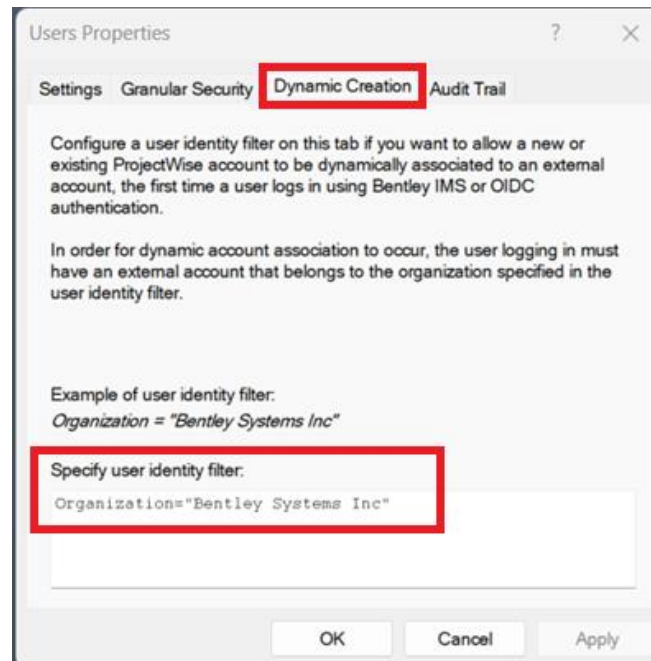
Identity	Provider	Description
linh.ha@bentley.com	https://ims.bentley.c...	Bentley IMS

ProjectWise 2023

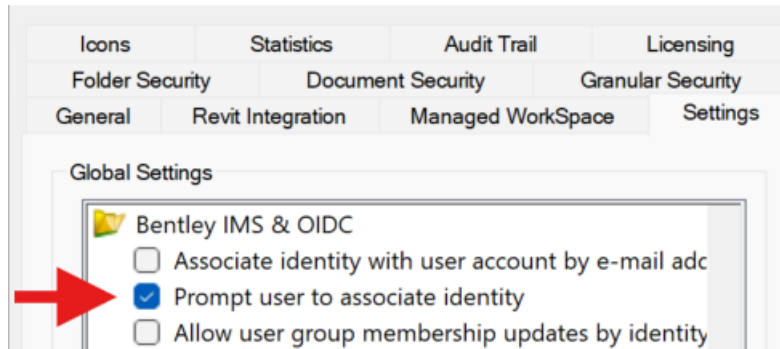
Prompt user to link a Bentley IMS account to an existing ProjectWise User account

If user email is not the same as their Bentley IMS account and user already has a ProjectWise account

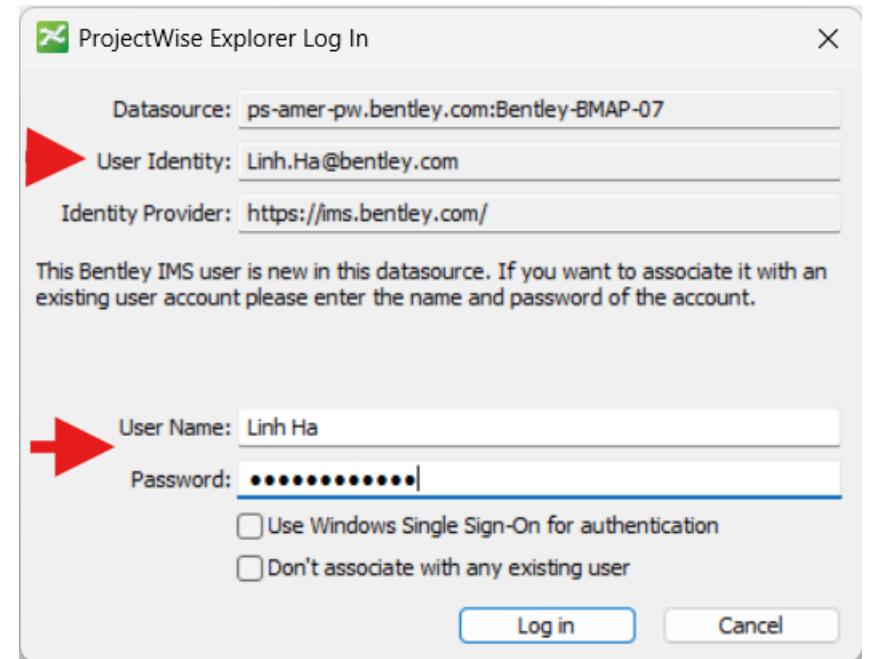
User Properties → Dynamic Creation



Datasource Settings



Prompt user to link their IMS account to their ProjectWise account



ProjectWise 2023

Changes to ProjectWise Workflow Rules Engine (WRE)

Improved Rule Validation

In the past, WRE configuration allows workflow and state names that did not exist in ProjectWise Datasource.

ProjectWise 2023 introduces a validation which requires workflow and state names to exist in ProjectWise Datasource. Otherwise, it will reject when uploading the rule from the excel file.

Client-side Execution Deprecation

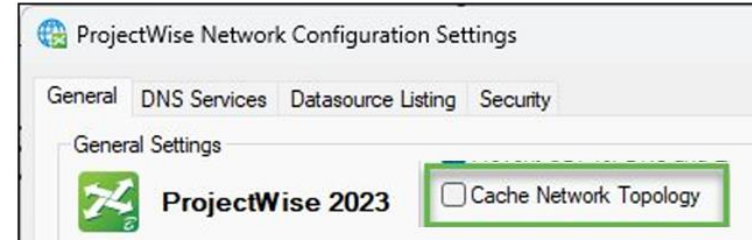
For improved security, rule execution on the client side will be deprecated in future releases.

Configure WRE to use Server-side execution

ProjectWise 2023

New in ProjectWise Explorer 2023

ProjectWise Network Configuration Settings → Cache Network Topology



Revit Integration Enhancements

Integration with Export to PDF (File>Export>PDF)

Advanced integration – Synchronize location feature, Sync > All, Sync > ProjectWise, Sync File System

[ProjectWise Explorer Readme](#) > [New in ProjectWise Explorer 2024](#) > [New in ProjectWise Explorer 2024.0.5](#)

New in ProjectWise Explorer 2024.0.5

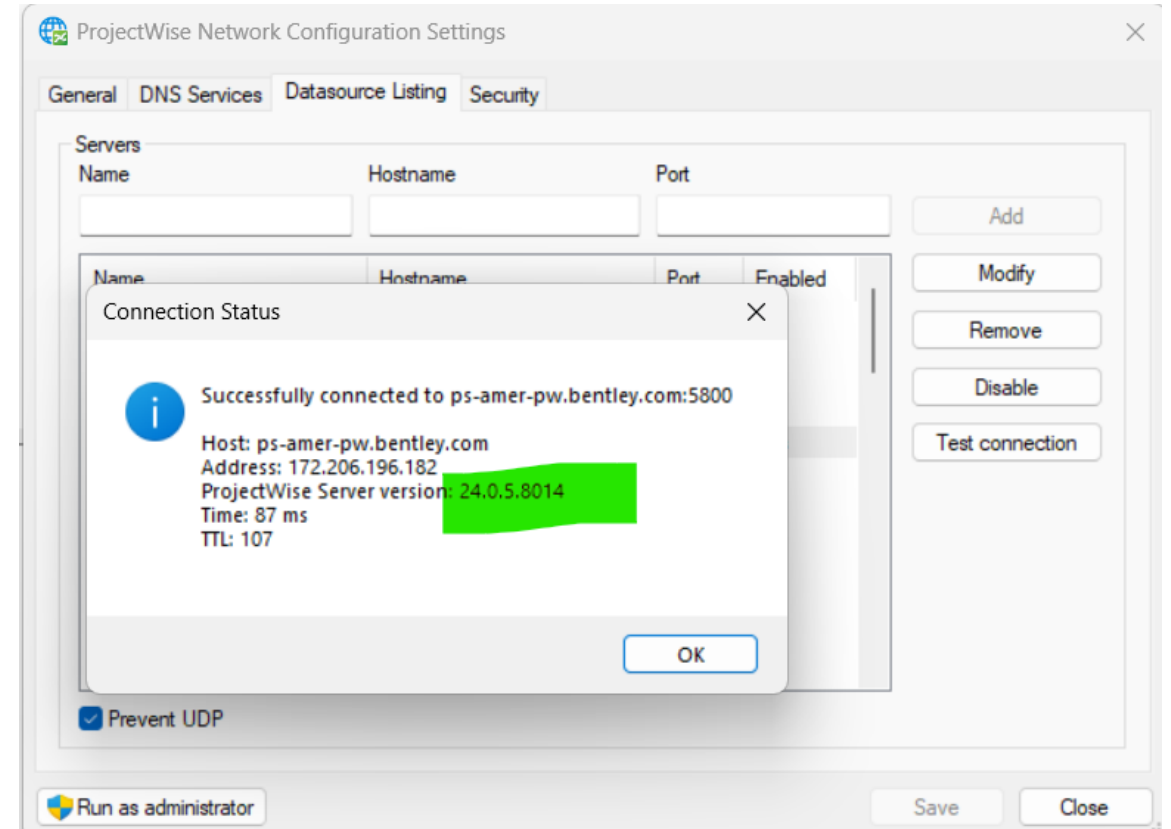
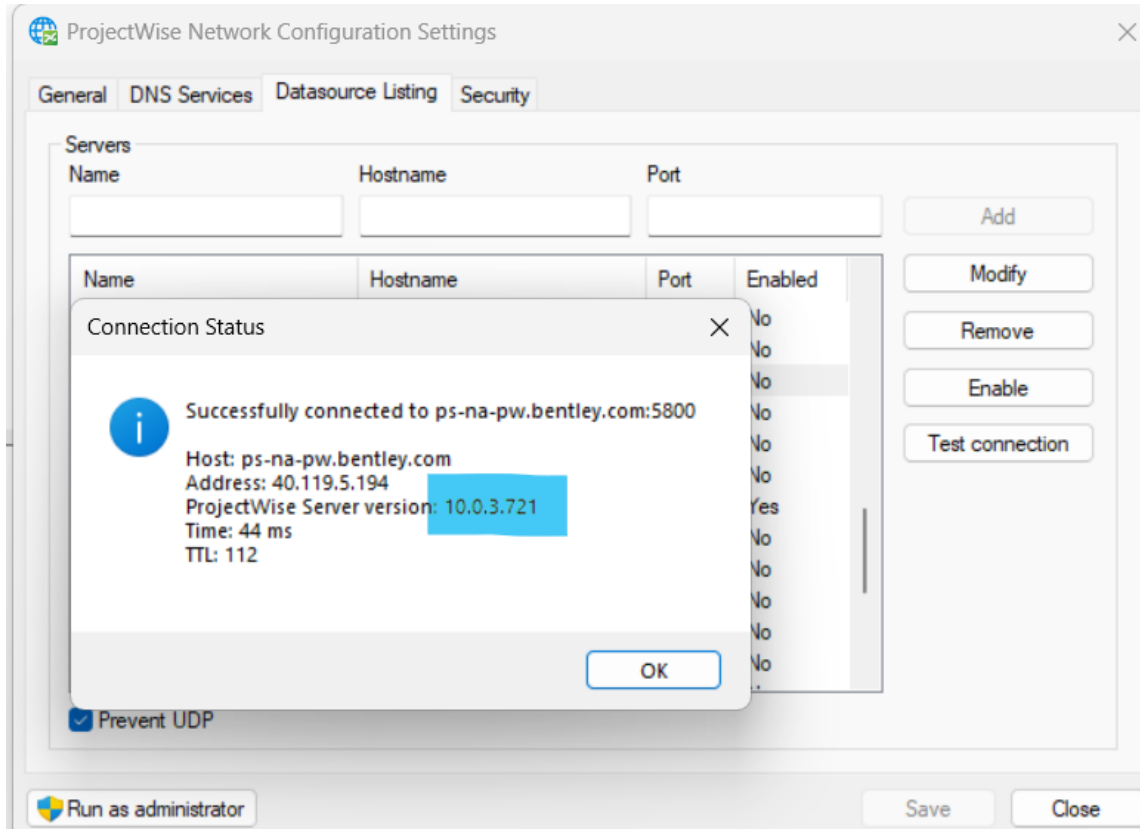
This version contains security and performance improvements.

ProjectWise Explorer Integrations

The following applications are now supported in ProjectWise Explorer :

- AutoCAD 2026 ←
- Civil 3D 2026
- MicroStation 2025
- Revit 2026 ←

What is ProjectWise Cloud?



What **is** ProjectWise Cloud?



Cloud-native technology

No more manual upgrades—updates are automatic



Agile scalability

Resources scale automatically based on project needs, improving performance and flexibility



Continuous system updates

Frequent release of software allows for faster delivery of new improvements



Stay Secure, Effortlessly

New security enhancements are delivered frequently and automatically, ensuring that your system always has the latest protections.

What **isn't** ProjectWise Cloud?



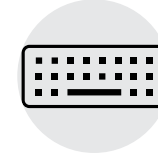
It's not a new product!

it's a transformation of your existing ProjectWise setup into a cloud-first experience



It's not Bentley Infrastructure Cloud

BIC is a suite of cloud-based solutions from Bentley including ProjectWise, SYNCHRO and AssetWise



Does NOT require ProjectWise Explorer upgrades

Often users in ProjectWise Cloud are running the same version of ProjectWise Explorer as before

Bentley design application considerations

- ProjectWise Explorer 2024 – There is NO integration with V8i products
- Bentley v8i design applications will continue to work as long as your ProjectWise Explorer version is between 23.xx and 10.00.03.299

** From January 1st 2022, Bentley V8i design applications are no longer supported by Bentley Systems*

ProjectWise Cloud – ProjectWise Administrator

PROJECTWISE ADMINISTRATOR VERSION	PROJECTWISE CLOUD 2024
ProjectWise Administrator 2024.0.5	●
ProjectWise Administrator 2024.0.3	Partially Compatible <ul style="list-style-type: none">• Compatibility warning message appears during login as Work Area CEL Expression feature only exists in ProjectWise Integration Server and not in older ProjectWise Administrator• All other features are compatible.
ProjectWise Administrator 2024.0.2	Partially Compatible <ul style="list-style-type: none">• Compatibility warning message appears during login as multi-factor authentication and technical preview features only exists in ProjectWise Integration Server and not in older ProjectWise Administrator• All other features are compatible.
ProjectWise Administrator 2024.0.1	Partially Compatible <ul style="list-style-type: none">• Compatibility warning message appears during login as Retain destination value when copying an option only exists in ProjectWise Integration Server and not in older ProjectWise Administrator• All other features are compatible

[ProjectWise 2024 Compatibility Matrix](#)

ProjectWise Administrator 2024.0.0	Partially Compatible <ul style="list-style-type: none">• Compatibility warning message appears during login as Retain destination value when copying an option only exists in ProjectWise Integration Server and not in older ProjectWise Administrator• All other features are compatible
ProjectWise Administrator 2023.06.03	Partially Compatible <ul style="list-style-type: none">• Compatibility warning message appears during login• Native user password policy messages will not be informative• All other features are compatible
ProjectWise Design Integration CONNECT Edition Administrator	Not Compatible <ul style="list-style-type: none">• Connections are not supported.• Login is denied.

'Rules' for moving to ProjectWise Cloud



What is 'Standardization'

- **Standardization delivers a structured approach to reviewing the current status of your ProjectWise Design Integration system**
 - The objective is identify areas that may be considered as “disqualifiers” or “potential issues” to successfully completing the upgrade
- **Areas considered to be “disqualifiers” for a ProjectWise Cloud upgrade**
 - Custom database objects
 - Modified Stored Procedures
 - Unsupported Server software
 - Accessing custom or external databases
 - Direct access to DMS tables or tables used in Save Searches
 - Use of CADQA or ProjectWise Design Insights (ADUS)
- **Areas considered to be “potential issues” for a ProjectWise Cloud upgrade**
 - Calling non-existing Stored Procedures
 - PowerShell scripts
 - User Synchronization Service
 - WRE – Super User
 - WRE – Client-side processing
 - WRE – Incorrect rules
 - Datasource Optimization: High datasource scorecard deductions. Particular attention is given to Audit Trail and Checkout Location Records



Objective

This document presents an analysis of Account readiness for migrating their ProjectWise installation to the ProjectWise Cloud. It identifies disqualifiers and potential issues that need to be addressed before an upgrade can proceed.

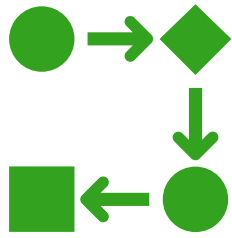
This assessment included the following ProjectWise systems and datasources:

Data Center: DataCenter FQDN: FQDN – PWDI Version: PWDI Version

Datasource	DisplayName

DISQUALIFIERS	
<input checked="" type="checkbox"/> 1.1 Custom database objects - Tables	<input checked="" type="checkbox"/> 1.10 PW 10.xx ICS installed on PW DI Server
<input checked="" type="checkbox"/> 1.2 Custom database objects - Stored Procedures	<input checked="" type="checkbox"/> 1.11 Unused Dedicated iModel BAS services
<input checked="" type="checkbox"/> 1.3 Custom database objects - Views	<input checked="" type="checkbox"/> 1.12 Unsupported software on the ICS server
<input checked="" type="checkbox"/> 1.4 Custom database objects - Triggers	<input checked="" type="checkbox"/> 1.13 Unsupported software on the WSG server
<input checked="" type="checkbox"/> 1.5 Custom database objects - Functions	<input checked="" type="checkbox"/> 1.14 Custom FQDN
<input checked="" type="checkbox"/> 1.6 Modified Database Stored Procedure	<input checked="" type="checkbox"/> 1.15 Accessing custom or external databases
<input checked="" type="checkbox"/> 1.7 Analytics Data Upload Service (ADUS)	<input checked="" type="checkbox"/> 1.16 Direct Access to DMS_XXX table
<input checked="" type="checkbox"/> 1.8 Scheduled/AdHoc Servers	<input checked="" type="checkbox"/> 1.17 Direct Access to other tables in Saved
<input checked="" type="checkbox"/> 1.9 ProjectWise Web API Service	
POTENTIAL ISSUES	
<input checked="" type="checkbox"/> 1.18 Calling non-existing stored procedures	<input checked="" type="checkbox"/> 1.23 WRE has incorrect rules
<input checked="" type="checkbox"/> 1.19 PowerShell scripts	<input checked="" type="checkbox"/> 1.24 Duplicated user accounts
<input checked="" type="checkbox"/> 1.20 User Synchronization Services	<input checked="" type="checkbox"/> 1.25 High Datasource Scorecard Deductions
<input checked="" type="checkbox"/> 1.21 WRE using Super User	<input checked="" type="checkbox"/> 1.26 Errors in SQL Select Statements
<input checked="" type="checkbox"/> 1.22 WRE set to Client-Side processing	

General ProjectWise Cloud Upgrade Process



01

Learning

- Informational call
- Process overview
- Review SLA
- Questionnaire review
- Standardization discussion
- Datasource Optimization recommendations

02

Standardize

- **Correct ProjectWise Cloud barriers**
- **Can be completed by...**
 - **The user**
 - **By Bentley**
 - **in collaboration**

03

Scheduling

- Confirm testing resource availability
- Secure testing timeframe
- Secure go-live date

04

Testing

- Evaluate your critical workflows
- Ask questions via assigned Teams channel
- Notify Bentley of any critical or high issues

05

Go-Live

- Participate in user acceptance testing
- Enjoy the benefits of ProjectWise Cloud

06

Post Go-Live

- Upgrade ProjectWise Explorer Client at your convenience

Thank you



Live Q&A