

Release Notes TPG PSLink 2022

Version: 9.x.x
Status: 26/03/2026


Table of Contents


1	Release Notes TPG PSLink 2022	3
1.1	Version 9.0.0.0	4
1.2	Version 9.1.0.0	7
1.3	Version 9.2.0.0	9
1.4	Version 9.3.0.0	14
1.5	Version 9.3.1.0	15
1.6	Version 9.4.0.0	16
1.7	Version 9.4.1.0	19


1 Release Notes TPG PSLink 2022


TPG PSLink 2022 major release comes with changed Microsoft Project support and updated system requirements, and some changes.


These release notes aim to provide an overview on all changes for PSLink Users.


[Version 9.0.0.0](#)  4

[Version 9.1.0.0](#)  7

[Version 9.2.0.0](#)  9

[Version 9.3.0.0](#)  14

[Version 9.3.1.0](#)  15

[Version 9.4.0.0](#)  16

1.1 Version 9.0.0.0

Changed Microsoft Project support

First of all, and as already known from previous major versions of our products, also this new major release changes the support of the connected Microsoft Project systems. TPG PSLink 2022 supports the following Microsoft Project systems:

- Microsoft Project Server 2016
- Microsoft Project Server 2019
- Microsoft Project Server Subscription Edition (**NEW!**)
- Microsoft Project Online

Important: TPG PSLink 2022 does **NOT** support Microsoft Project Server 2013 anymore.

New System Requirements

Also the system requirements have changed with this new major release. Now the minimum requirements are:

PSLink Server

- Microsoft Windows 10
- Microsoft Windows 11
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022
- Microsoft .NET Framework 4.8
- Access to an instance of Microsoft SQL Server 2014 or newer

PSLink Client

- Microsoft Windows 10, or
Microsoft Windows 11, or
Microsoft Windows Server 2019, or
Microsoft Windows Server 2022
- Microsoft .NET Framework 4.8
- Microsoft Project Professional/Standard 2016, or Microsoft Project Professional/Standard 2019, or Microsoft Project Professional/Standard 2021, or
Microsoft Project Online Desktop Client

Important: TPG PSLink 2022 does **NOT** support Microsoft Windows Server 2016 anymore.

Licensing

The licensing rules stayed the same. As this is a new major version, licenses of TPG PSLink 2019 and below don't work. When you need to upgrade an existing customer installation, please keep in mind to get new license files.

Action Schema Changes

We removed a few attributes and enumeration values that were only relevant for Project Server 2013 support. These are:

- From CreateNewMSPPProject, we removed the templateName configuration option
- From PublishProjects, we removed the publishType and wssUrlExpression configuration options
- From DeleteProjects, we removed the publishedOnly configuration option
- From UpdateCustomFieldDefinition, we removed
 - The OutlineCode enumeration value from customField's dataType configuration option — Please use Text instead
 - The Assignment enumeration value from customField's entityType configuration option as it did not make any sense and always failed anyway

Enhancements

We updated TPG PSLink Studio help to finally contain a list of all properties of supported Microsoft Project entities, including the TaskLink entity. Also, both server-side and client-side property lists are included now.

The screenshot shows the PSLink Studio Help application window. The left sidebar contains a tree view with categories like 'General Concepts', 'Project Server Entities and P', and 'Project Client Entities and Pr'. The 'Project' entity is selected under 'Project Server Entities and P'. The main content area displays the 'Project' page with a table of 'Project properties (server actions)'. The table has four columns: Property Name, Type, Can Read, and Can Write. The TPG logo is visible in the top right corner of the help page.

Property Name	Type	Can Read	Can Write
AndMoveCompleted	Boolean	True	False
AndMoveRemaining	Boolean	True	False
ApprovedEnd	DateTime	True	False
ApprovedStart	DateTime	True	False
AutoCalcCosts	Boolean	True	False
AutoSplitTasks	Boolean	True	False
AutoTrack	Boolean	True	False

1.2 Version 9.1.0.0

Standalone Client

Microsoft Edge WebView2 support

When you sign in to a PSLink site configured with a Project Online system, you get a popup window that asks you to sign in to Project Online before you actually get the PSLink job list. That popup window always hosted Internet Explorer in the past, because that is what was available. However, IE is pretty outdated and even Microsoft themselves do not support it anymore consistently. Also, they allow customers to choose whether IE support is still available or not and move more and more customers into the "IE is finally disabled" territory.

That's great from a security perspective and definitely the right direction for the industry in general. Nevertheless, it caused some of our customers to lose access to Standalone Client as IE was the only browser we supported. But not anymore! With this release, we use Microsoft Edge if it is available (see important note below!) and only fall back to IE if we cannot load Edge.

NOTE: To actually use Edge, you must have the **Microsoft Edge WebView2 Runtime** installed!

So how do you get that runtime? [Just mid-December, Microsoft announced](#) that most Windows 10 Consumer devices already got it installed automatically and that they would start rolling it out to managed/domain-joined Windows 10 devices on January 16, 2023. Windows 11 always has it as part of the operating system already. So chances are high that it's already there. However, if it is not and you want or need it, you can [download the installer](#) manually to get the runtime onto your box.

In case a customer asks: We recommend the Evergreen version.

Faster re-logins to sites with Project Online systems

On every single PSLink login to sites with Project Online systems, we showed that popup window and asked you to authenticate again. That can really get on your nerves! And although you could always tick the "Remember me" checkbox to at least avoid typing your password and passing MFA again and again, this was still pretty slow and one could

always see the window appear and then close automatically. We've improved this behavior and now cache the sign-in cookies. With this change, you'll only see the first login to be slow and subsequent logins to be much faster. It also means we'll reuse the same account of course. So if you need to access the same site with a different account, from now on you need to restart Standalone Client to achieve this.

PSLink Server

Modern Authentication now performed with "MSAL"

Previously, PSLink used a Microsoft library called ADAL to implement our Modern Authentication scenarios. As Microsoft deprecated that library months ago, we needed to switch to the more modern and actively maintained replacement library called MSAL.

Don't worry, please; All old versions of PSLink will continue to work as the authentication servers keep supporting the older approach and there's no immediate need to upgrade. However, Microsoft started to make customers aware of tools that still use the older library and we had some support tickets due to this already. As it's always good to be responsible and responsive and address potential uncertainty quickly, we've upgraded to MSAL so we can easily and quickly upgrade customers who stumble upon the Microsoft notification or get a message from them.

New SAP .NET Connector

SAP published a new release of their .NET Connector, version 3.1.1.0. Although everything should just work as before, we want to mention this change this time as there are quite a few changes under the covers. So if you encounter any issues, please don't hesitate to contact us (as always!).

1.3 Version 9.2.0.0

System connectivity and authentication

SQL Server

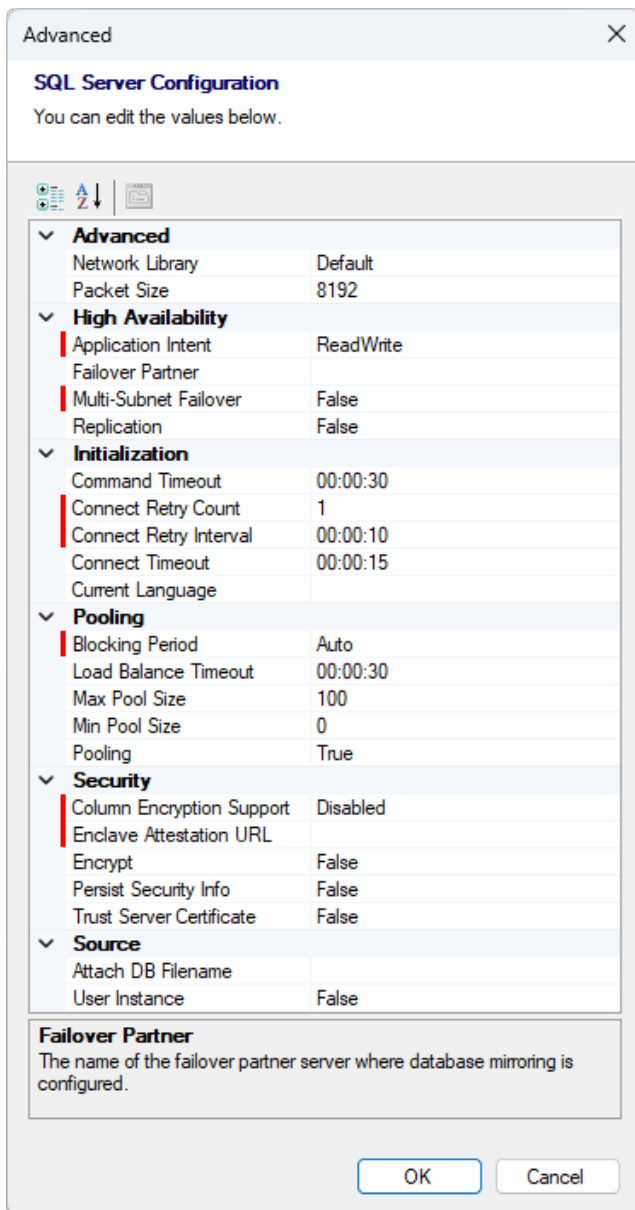
We enhanced configuration with resiliency options and added support for the following SQL Server features:

- Always On Availability Groups
- Always On Failover Cluster Instances
- Always Encrypted
- Always Encrypted with secure enclaves

The full list of added SQL Server connection configuration options is:

- Initialization
 - ConnectRetryCount
 - ConnectRetryInterval
- Pooling
 - PoolBlockingPeriod
- High Availability
 - ApplicationIntent
 - MultiSubnetFailover
- Security
 - ColumnEncryptionSetting
 - EnclaveAttestationUrl

And this is how the Advanced settings dialog looks now, with the newly added options highlighted:

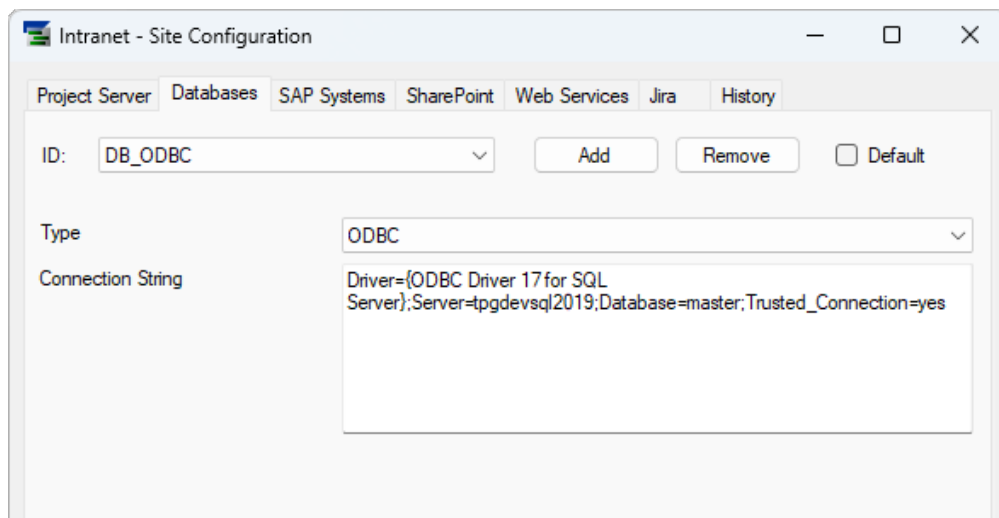


ODBC and other ADO.NET providers (generic database support)

On the Databases tab, there is now a dropdown that allows you to select the database provider. Built-in and therefore always available are:

- SQL Server
- ODBC
- OLE DB
- Oracle

But the really nice thing is that this list is dynamic! When you install any ADO.NET Data Provider, like e.g. the SAP Hana ADO.NET Provider, it shows up in this list and you can use it to connect to pretty much any database you want. As we cannot know all ADO.NET Data Providers, we require you to enter the respective Connection String with all the details.



There is one caveat though: These database connections are only available in QueryDatabase. All other PSLink features like History, Cache Tables, and actions like SaveTableToSql do still only support SQL Server, nothing else.

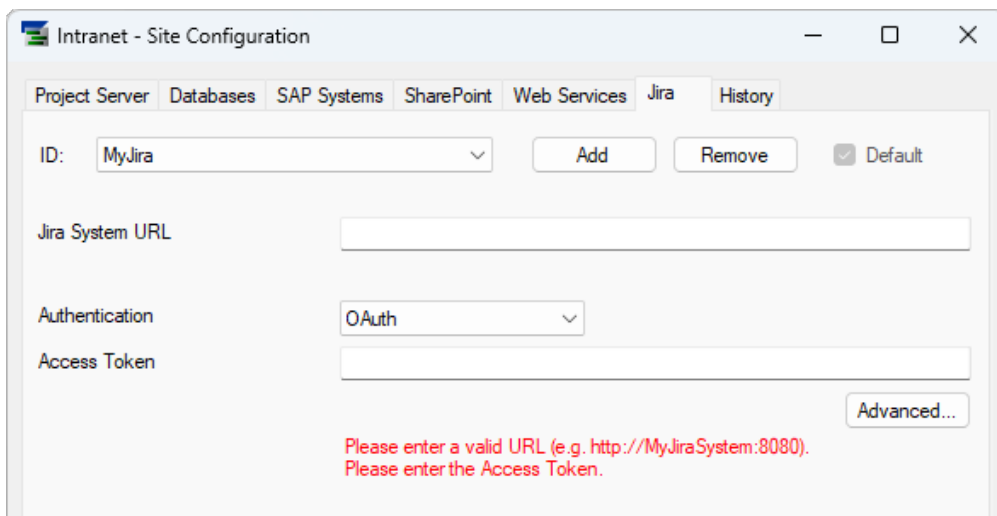
We want to encourage everyone who used the connectionString configuration option of QueryDatabase to move to this new approach as it is more generic and much more secure. However, we do keep the old approach (which was limited to OLE DB) around, so don't worry.

-
- ▶ If you try to use such a non-SQL Server database in a context that requires a SQL Server connection, you'll see the following error message:

Requested connection to SQL Server, but the Database system is configured for a different database type.

Atlassian Jira OAuth Authentication

We added support for OAuth authentication when connecting to Atlassian Jira. As there is no easy way to retrieve OAuth tokens for Jira programmatically, we opted to let you paste a token in Site Configuration:



The screenshot shows a web browser window titled "Intranet - Site Configuration". The "Jira" tab is selected in the navigation bar. The configuration form includes:

- An "ID" dropdown menu with "MyJira" selected, accompanied by "Add" and "Remove" buttons and a checked "Default" checkbox.
- A "Jira System URL" text input field.
- An "Authentication" dropdown menu with "OAuth" selected.
- An "Access Token" text input field.
- An "Advanced..." button.
- Red error text at the bottom: "Please enter a valid URL (e.g. http://MyJiraSystem:8080). Please enter the Access Token."

Microsoft Project add-in login fix

Due to historic reasons our Microsoft Project add-in searched for the user in SharePoint or Project Server by name instead of by account. That obviously falls down when the user names are not unique. We have finally addressed that old login issue and are now always searching for the user by account.

Project Server actions

Last month, Microsoft again enhanced the implementation of Project Server Subscription Edition to allow modification of a tasks' FixedCostAccrual property. In other words, it's now possible to set task cost accrual to the task start or task finish, or to have costs prorated over the task's duration.

We've followed suit and support this in PSLink now.

-
- ▶ If you try to use this and your Project Server instance does not support it yet because its patch level is too low, you'll see an error message like the following:

The field FixedCostAccrual is read-only on task <your task's name> (<your task's GUID>), because modification is not supported yet by Project Server. Upgrade to a newer version (or install a more recent CU) to enable modification. You have version <your server's current version> installed, minimum required version is <minimum required version to use the feature>.

1.4 Version 9.3.0.0

SharePoint Server with SAML federation

We're now supporting SharePoint Server with SAML-based federation in PSLink, in both SharePoint Server Permission Mode and Project Server Permission Mode.

When checking authorization to use PSLink, user lookup now always uses the following order consistently:

1. Claims account with Integrated Windows authentication (prefix i:0#.w|)
2. Classic Integrated Windows authentication
3. Claims account with user principal name (UPN) mapping (prefix i:0e.t|)

We support federation based on user principal name only. No other claims or mappings, please!

Project Server actions

Microsoft enhanced the implementation of Project Online to allow modification of a tasks' FixedCostAccrual property. In other words, it's now possible to set task cost accrual to the task start or task finish, or to have costs prorated over the task's duration.

We've followed suit and support this in PSLink now.

1.5 Version 9.3.1.0

General

An open-source component called log4net for writing log entries to the Windows Event Log and files in the past. As it had security issues reported over the years, and we do not need its flexibility, we opted to bid farewell to log4net.

PSLink Server

Login

In the previous version 9.3.0.0, we added support for SharePoint Server systems with Entra ID authentication. Unfortunately, the implementation was flawed and required an LDAP server to be available when we made the first authentication, otherwise PSLink Server failed all authentications and needed to be restarted to get it fixed.

Additionally, we unintentionally broke usage of TPG PSLink on machines that are not domain-joined.

We've fixed these in the new version.

Site Configuration

Back in version 9.2.0.0, we added generic database support via ODBC and ADO.NET providers. But even with 9.2.1.0 we did not get the user experience in Site Configuration fully right, and the UI behaved somewhat weirdly.

That is also fixed now.

UpdateSPListItems action

Our action UpdateSPListItems had a bug where it never failed, even when errors occurred and were written to the log correctly, this is fixed now. When the action encounters an error, it will now fail and job execution proceeds in the corresponding catch or finally block.

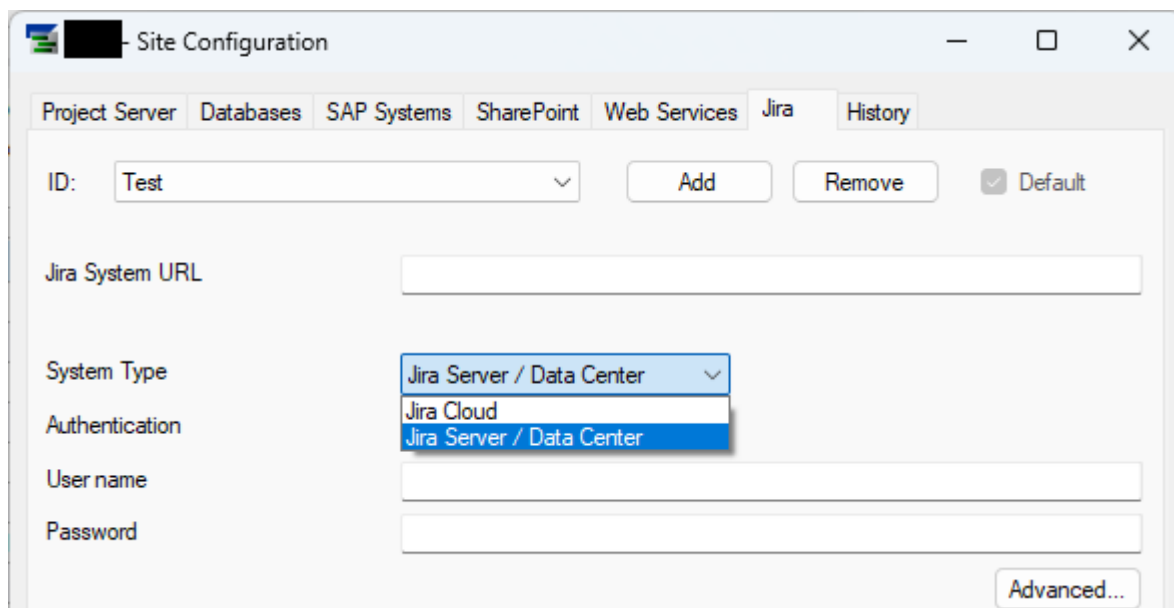
1.6 Version 9.4.0.0

PSLink Server

Site Configuration

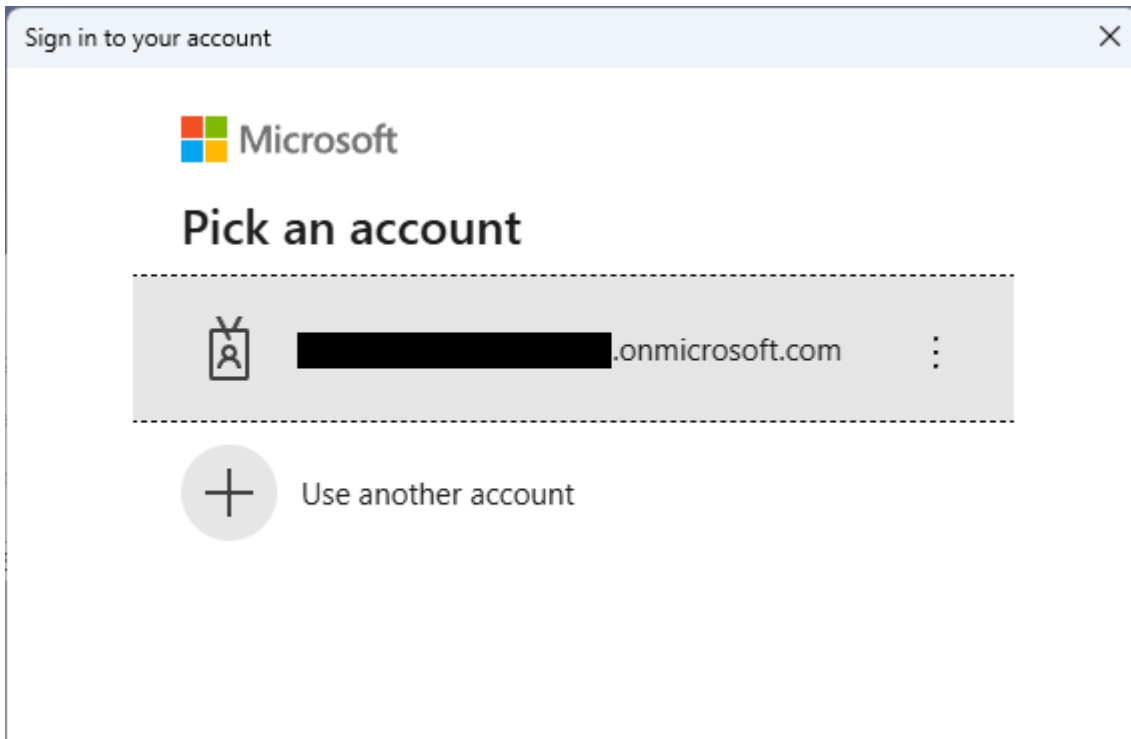
For Jira systems, there is a new dropdown to select the Jira system type (Cloud or Server/Data Center). This is required as Jira Cloud allows usage of custom domains, so it is not possible to automatically detect the type from the URL alone.

We'll try to detect the type automatically on upgrade based on the URL. However, this will yield an incorrect result if you are using a custom domain for Jira Cloud. Please double-check your site configurations after upgrading.

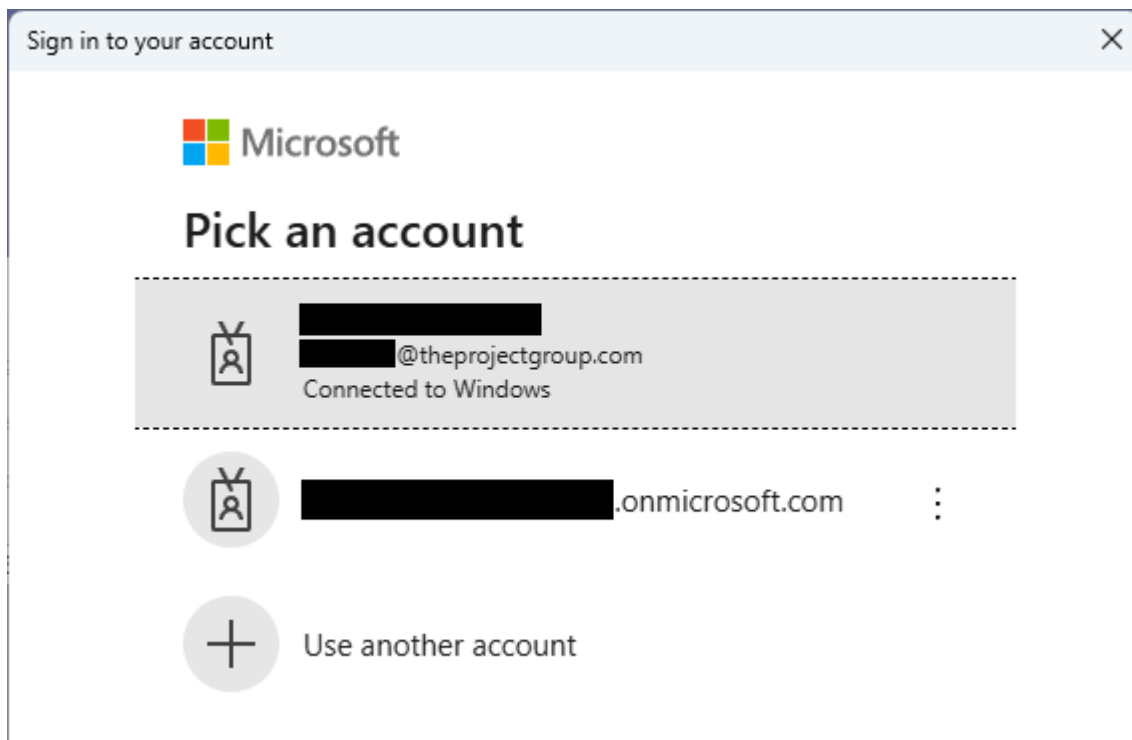


PSLink Standalone Client

Logging in to sites with Project Online systems where the tenant administrator configured a Conditional Access Policy with device requirements failed in previous versions, because we did not enable Device ID handling on the WebView2 control. This is remediated in the new release, and users can now log in successfully when such policies are in place.



TPG PSLink 9.3.1.0 and before: Entra ID login does not recognize the Windows user account.



TPG PSLink 9.4.0.0: Entra ID login proposes the Windows user account automatically.

Atlassian Jira connector

We've updated our Jira connector to use the latest Jira REST API version 3 for Jira Cloud systems!

We had to make some **breaking changes** to achieve this. These apply to **Jira Cloud systems only!**

Jira Server/Data Center systems will continue to use the REST API v2 and are not affected. Some changes were unavoidable due to the API changes.

GetJiraIssues action

Previously, our GetJiraIssues action allowed a "minimum configuration" which made it retrieve all issues the user has access to. This is no longer possible with the new API, so you must now set either the projectIdOrKey or jqlQueryString input property.

Another breaking change affects the Description column of the issues output table. The REST API v3 does not return the description as plain text anymore, but as a JSON string in a format called Atlassian Document Format (ADF). We're handing this JSON string as-is to you.

The change from plain text to JSON (ADF) also applies to multi-line custom fields. These fields are still added as columns to the issues output table, but they are in ADF now.

GetJiraWorkLog action

The REST API v3 does not return the Author and UpdateAuthor fields Name, Key, and EmailAddress anymore. As a replacement, we're now handing out the AccountId, so that gives you at least a way to identify the user and group the data.

Additionally, the work log field Comment is now also a JSON string (ADF) instead of plain text, just as in GetJiraIssues described above.

1.7 Version 9.4.1.0

PSLink Server

All Project Server actions

For assignments and task links, we've seen it often that Project Server does not provide us with the full object information. Concretely, for an assignment we sometimes do not get the necessary task or resource information, which then caused an error with the message:

The property or field 'Id' has not been initialized. It has not been requested or the request has not been executed. It may need to be explicitly requested.

For task links, typically the successor information is missing. The corresponding error message was then:

Object reference not set to an instance of an object on server. The object is associated with property End.

The affected assignments and task links are valid and displayed just fine in Project Professional and PWA, and at the same time they are somehow defective such that Project Server is not able to provide all information about the respective object to us.

In the new release, we have at least improved the error messages. From now on, the affected assignment or task link is pointed out in the error message such that users can identify, remove, and recreate those.

PSLink Clients

Here we had also a message which popped up every now and then: When an error occurred trying to execute an action, sometimes one would only get the following error in the log:

*Expression could not be compiled. Cannot evaluate constant expression:
PropertyBinding.GetValue() threw an exception.*

The underlying error was missing in that log message. For technical reasons that is still the case, but to simplify diagnosis we're writing the underlying error to Windows Event Viewer now. So when you encounter that error the next time, remember to check Windows Event Viewer for details.

Atlassian Jira connector

GetJiraIssues action

Our GetJiraIssues action was not designed to support multiple custom fields with the same name. Due to this, you could see some strange and seemingly unrelated errors when reading issues from Jira systems with such a configuration.

In the new version we have fixed this. When we detect multiple custom fields with the same name, we're assigning stable names to them by adding a numeric suffix. Thus, you'll see custom field names like "MyCustomField" (without suffix) and "MyCustomField2" (with numeric suffix) in a single table.