

Integrate. Collaborate. Migrate.

Installation Guide

PowerSyncPro Service





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Purpose of this document

This document describes how to install the PowerSyncPro Service. There are additional documents that you should refer to. These are the Prerequisites document and the Configuration guide which can be obtained from the following locations:

https://downloads.powersyncpro.com/current/PSPSync-Prerequisites.pdf https://downloads.powersyncpro.com/current/PSPSync-ConfigurationGuide.pdf

Before you start

Please ensure you have read the Prerequisites document and are building a supported scenario for PowerSyncPro.

Source Files

Download the latest installation files from https://powersyncpro.com/resources

Service Accounts

Choose which service account you are going to use to run the PowerSyncPro service:

- Group Managed Service Account from Active Directory (preferred) -<u>https://learn.microsoft.com/en-us/azure/active-directory/fundamentals/service-accounts-group-managed</u>
- 2. Traditional Service Account from Active Directory
- 3. Traditional Service Account from the local server
- 4. Network Service

SQL Recovery Model

Consider setting the recovery model to Simple, unless you are backing up the database and want an ability to roll forward the log files



Collation:	SQL_Latin1_General_CP1_CI_AS	~
Recovery model:	Simple	~
Compatibility level:	SQL Server 2022 (160)	~
Containment type:	None	~

Figure 1 SQL Database Recovery Model

SQL Memory

As SQL Server loves to take all the memory it is worth considering setting the maximum allowed to be consumed to half of the installed memory, leaving enough for the PowerSyncPro application

Select a page	🖵 Script 🔻 😧 Help
🖉 General	
Memory Processors Security Connections Database Settings	Server memory options
Advanced	Minimum server memory (in MR):
	0 Ma <u>x</u> imum server memory (in MB): 4096 €

Figure 2 SQL Memory

Firewall Configuration

The firewall configuration will depend on the strategy for the publishing the PowerSyncPro endpoint the migration agent will connect to. Our preferred option is to have some kind of reverse proxy, Application Gateway, Load Balancer or similar in front of the PowerSyncPro Server. That way the PowerSyncPro



server can have a port opened from that appliance to the PowerSyncPro server, and it is the appliance that is published to the Internet for all Migration Agents to connect to.

If the default TCP ports 5000/5002 are used then the PowerSyncPro Server must have an Inbound rule for TCP Port 5000-5001 ALLOW for all to ensure that Windows Workstations can connect to pull down Runbooks and upload status activity, and that the PSP remote agents can connect.

Hardening Recommendations

In production environments we recommend usual hardening to keep the service as secure as possible, this includes:

- 1. Disable SSL, TLS 1.0 and TLS 1.1 on the PSP Server <u>https://learn.microsoft.com/en-us/windows-server/identity/ad-fs/operations/manage-ssl-protocols-in-ad-fs</u>
- 2. Disable less secure ciphers on the PSP Server <u>http://www.waynezim.com/2011/03/how-to-disable-weak-ssl-protocols-and-ciphers-in-iis/</u>
- 3. Use https throughout, this could be via Application Gateway, IIS Reverse Proxy, Firewall restrictions, etc. If using IIS then consider enabling HSTS to ensure https is used and reduce the possibility of MITM attacks
- Consider limiting the hostnames that are allowed, be that via reverse proxy settings, or directly by adding AllowedHosts to appsettings.json <u>https://learn.microsoft.com/en-</u> <u>us/aspnet/core/fundamentals/servers/kestrel/host-filtering?view=aspnetcore-8.0</u>
- 5. Consider using HSTS to further guard against MITM attacks. <u>https://learn.microsoft.com/en-us/iis/get-started/whats-new-in-iis-10-version-1709/iis-10-version-1709-hsts</u>





PowerSyncPro Service

Install PowerSyncPro Service

On the server that will be hosting the PowerSyncPro service:

- Choose and create a download directory for your source files e.g. C:\SOURCE
- Download or copy the PowerSyncPro MSI to C:\SOURCE
- Double click the PowerSyncProInstaller.msi

The installer will:

- Create the SQL database (if it doesn't exist)
- Add the service account given SQL logon rights, and specified as DB Owner
- Create the folder "PowerSyncPro" under "Program Files"
- Create a folder at C:\ProgramData\Declaration Software\PowerSyncPro
- Create the folder C:\PowerSyncProLogs
 - o This directory will contain additional PowerSyncPro logs for troubleshooting
- Create PowerSyncPro service

PowerSyncPro Setup

🔁 PowerSyncPro Setup	×
PowerSyncPro	Welcome to the PowerSyncPro Setup Wizard
G	The Setup Wizard will install PowerSyncPro on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
CŲ.	
O ⊕	
	Back Next Cancel
	Back Next Cancel

Figure 3 PowerSyncPro Setup





User License Agreement

Accept the License Agreement

			G
By installing the PowerSyncPro software you affirm the accepted the EULA	at the end dient ha	s read and	CQ.
☑ I accept the terms in the License Agreement			
Back	Next	Ca	ncel

Figure 4 User License Agreement

Destination Folder

Choose new or accept the default destination folder and click "Next".

PowersyncPro Setup —	
Destination Folder Click Next to install to the default folder or click Change to choose another.	6
Install PowerSyncPro to:	
C:\Program Files\PowerSyncPro\	
Change	

Figure 5 Destination Folder





Configure Remote Agents

Choose whether you will Enable Remote Agents and if you will use a Self-Signed Certificate or an existing one. Choose your TCP Port number that Remote Agents should connect on. The default port is TCP Port 5001. We recommend keeping this value unless you have an unresolvable port conflict on TCP Port 5001.

Configure Remote Agents	
Configure settings for remote	agents
Enable Remote Agents:	
Certificate Type:	○ Create Self-Signed
	 Use Existing
Select Certificate:	CN=*.contoso.t2t.dev
Port Number:	5001
	Back Next Cancel

Figure 6 Configure Remote Agents

Choose Ports (PSP Service)

Choose Service Ports. By default, PowerSyncPro uses TCP Port 5000 for the service. We recommend keeping this value unless you have an unresolvable port conflict on TCP Port 5000.

NOTE: The installer picks the next available port after 4999, so there is potential for the port to be a number higher than 5000 due to prior software installations.

If PowerSyncPro Migration Agent will be used, then Select "Listen on all interfaces" and click "Next"





Choose Ports	\sim
Specify which ports to use for the service	¢)
HTTP Port+	
5000	_
Listen on all interfaces	



SQL Connection

Configure your SQL connection / Port and click "Next".

Please provide the o	latabase connection details	G
Server:	localhost	
Port:	1433	
Instance:	SQLEXPRESS	

Figure 8 SQL Connection

SQL Database

We recommend accepting the default Database name of "PowerSyncProDb" and click "Next".





QL Database		
Please choose the	database to use	
Database:	PowerSyncProDb	~

Figure 9 SQL Database

Service Account

Specify the service account you are going to use to run the PowerSyncPro Windows Service. The account you choose here must have the appropriate rights to run as service on this server.

If you are using a Group Managed Service Account (recommended), then just the Username is required here e.g. CONTOSO\gMSA-PSP\$.

Service Account	
Please choose the	account to run the PSP service as
	O Use Local System
	O Use Service Account
Username:	CONTOSO\gMSA-PSP\$
Password:	<u> </u>
	□ Is staging server?
	Back Next Cancel

Figure 10 Service Account





Reverse Proxy

Please refer to the prerequisites document to ensure that IIS, URL Rewrite and Application Request Routing are installed and configured ready for the reverse proxy configuration.

Using an IIS reverse proxy allows you to have a friendly endpoint name bound to an SSL certificate using TCP port 443 that will not be required when installing Migration Agents. The IIS Reverse Proxy will redirect traffic to the Kestrel back-end.

HTTPS reverse proxy fo	r IIS will overwrite any existing web.config
Create Reverse Proxy	
IS Website	Default Web Site
Domain to Rewrite To	pspma.contoso.t2t.dev
SSL Certificate	CN=Sectigo RSA Domain Validation Secure Server CA, O=S $ \smallsetminus $

Figure 11 Reverse Proxy

If you wish to configure a Reverse Proxy, you **must** tick the box.

Note that a configuration here will overwrite any existing web.config (usually in C:\inetpub\wwwroot)

- IIS Website: You can accept the default unless you have specific reason not to
- **Domain to Rewrite to:** This is the friendly endpoint FQDN name your remote agents will connect to. You should have a DNS record for this to the PSP Server. This does not need to be prefixed with http(s)
- **SSL Certificate:** If you have an existing certificate, you can choose it here, or elect to create a new self-signed certificate. We recommend 3rd party trusted SSL certificate if you will be using PowerSyncPro Migration Agent on Windows Workstations that will be connecting on from the internet. Any SSL Cert you choose here should be configured in your IIS Bindings.



SSL Certificate	CN=Sectigo RSA Domain Validation Secure Server CA, O=S $ \sim $
	<create new=""> CN=USERTrust RSA Certification Authority, O=The USERTRUS Sectigo (AAA) Microsoft Exchange</create>
	CN=Section RSA Domain Validation Secure Server CA. O=Sect

Figure 12 Choose SSL Certificate

URL Rewrite

Name	Input	Mate	:h	Pattern
PowerSyncProReverseProxyInboundRule 🎬	URL path after '/'	Mato	hes	(.*)
) utbound rules that are applied to the headers o	or the content of an HT	IP response:	Pattern	Actio

Figure 13 URL Rewrite rules

Ready to install PowerSyncPro

Confirm settings and click "Install"



Click Install to begin the installation	n. Click Back to review or change any of your
installation settings. Click Cancel t	o exit the wizard.
SQL Server	PSPSVR01
SQL Server Port	1433
SQL Server Instance	N/A
SQL Database	PowerSyncProDb
Service Account	CONTOSO\gMSA-PSP\$
Is Local Account	False
Is Staging Server	False
Bind on All Interfaces	1
HIIP Port	5000
HI IPS Port	0443 CN * contrast t2t days
Centincate s Subject	CIN=~.contoso.t2t.deV
Create Reverse Proxy	Tes

Figure 14 Ready to install PowerSyncPro

PowerSyncPro Setup	– 🗆 X
Installing PowerSyncPro	Ô
Please wait while the Setup Wizard installs PowerSyncPro.	
Status: Copying new files	
Bart	Cancel
Dack	Canter

Figure 15 Installing PowerSyncPro



023-09-29	16:06:19	Host database: server=localhost;trusted connection=True;database=PowerSyncProDb
023-09-29	16:06:19	HOST database migration started

Installation complete

🔁 PowerSyncPro Setup	×
PowerSyncPro	Completed the PowerSyncPro Setup Wizard Click the Finish button to exit the Setup Wizard.
^ ি ⊕	
	Back Finish Cancel

Figure 16 Installation complete

PowerSyncPro Service

You should now be able to open a browser and go to <u>http://localhost:5000</u>. (The port 5000 is the default port but may differ if you chose another port during installation). The default logon details are admin and 123qwe. Please change the password as soon as possible. The service may take a minute for the service to fully start. PowerSyncPro has a dependency on SQL to start.



PowerSyncPro	Name	Description	Status	Startup Type	Log On As
top the service lestart the service Description: Declaration Software PowerSyncPro DirSync Service	 P9RdrService_59d0a Payments and NFC/SE Man Performance Counter DLL Performance Logs & Alerts Plug and Play Portable Device Enumerator Power PowerSyncPro PowerSyncPro Properties (Local C General Log On Recovery Deg Some services depend on other se groups. If a system component is st dependent services can be affecte PowerSyncPro This service depends on the follow Image: Sol Server (MSSQLSEF)	Enables trig Manages pa Enables rem Performanc Enables a c Enforces gr Manages p Declaration omputer) bendencies rivices, system driviopped, or is not n ed.	Running Running Running vers or load o unning proper	Manual (Trig Manual (Trig Manual Manual Manual Manual (Trig Automatic Automatic X " rder ty.)	Local System Local Service Local Service Local Service Local System Local System CONTOSO\gMSA-PSPS Local System Local System

Figure 17 PowerSyncPro Service

PowerSyncPro Configuration

Now move to the PowerSyncPro Configuration document. <u>https://downloads.powersyncpro.com/current/PSPSync-ConfigurationGuide.pdf</u>





Upgrade PowerSyncPro Service

To upgrade PowerSyncPro download the latest files from the download site, then on the server hosting PowerSyncPro:

 Navigate to wherever you downloaded the PowerSyncPro software update. Double click PowerSyncProInstaller.msi Click Next 	 PowerSyncPro Setup PowerSyncPro PowerSy
Accept all the defaults and click "Install".	PowerSyncPro Setup - × Ready to install PowerSyncPro Content of the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard. Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard. SQL Connection Server=localhost;; Trusted_Connection=True Service Account PSPTESTTRG\gMSA-PSP\$ Bind on All Interfaces False HTTP Port S000 It is back Install Back Install





• Upgrade will commence.		PowerSyncPro Setup Installing PowerSynch Please wait while the Setup Status: Copying new	Pro Co
PowerSyncPro database up	odated.	Crifnogam Rani/PowerSyncPhritMagatin/Deckarition 2623-69-29 36:46519 Host database: ser 2623-69-29 35:4619 Host database: ser 2623-69-29 35:4619 Host database mile	Schwarz Prowerfynd Pro Afgular Jose Prezer Jose School (Trusted Connections Trust distabases Powerfynt Proson)
• Click "Finish".		PowerSyncPro Setup PowerSyncPro C C C C C C C C C C C C C	Completed the PowerSyncPro Setup Wizard Clock the Finish button to exit the Setup Wizard. Back Finish Cancel





- Open a browser and go to <u>http://localhost:5000</u>.
- You can confirm the updated version by looking at bottom right corner of webpage.

Version 3.0.23222.2





Repair PowerSyncPro Service

•	Navigate to C:\SOURCE		
•	Double click PowerSyncProInstaller.msi	🛱 PowerSyncPro Setu	np — — X
•	Click "Next".	PowerSync	Welcome to the PowerSyncPro Setup Wizard
		G	The Setup Wizard allows you to change the way PowerSynCPro features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
		(f)	
			Back Next Cancel
		1000	
٠	Choose "Repair".		
		Change, repair, o	rremove installation
		Select the operation	n you wish to perform.
		Change PowerSy	ncPro has no independently selectable features.
		Repair Repairs e files, sho	rrors in the most recent installation by fixing missing and corrupt rtcuts, and registry entries.
		Removes	PowerSyncPro from your computer.
			Back Next Cancel





• Click on "Repair".	PowerSyncPro Setup
The repair will commence.	PowerSyncPro Setup — X Repairing PowerSyncPro Co Please wait while the Setup Wizard repairs PowerSyncPro. Status: Copying new files Back Next Cance





• Click "Finish".	PowerSyncPro Setup	- • ×
	PowerSyncPro	Completed the PowerSyncPro Setup Wizard Click the Finish button to exit the Setup Wizard.
		Back Finish Cancel





Uninstall PowerSyncPro Service

٠	Navigate to C:\SOURCE	
•	Double click PowerSyncProInstaller.msi	PowerSyncPro Setup — X
•	, Click "Next".	Welcome to the PowerSyncPro Setup Wizard
		PowerSynCPro The Setup Wizard allows you to change the way PowerSynCPro features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
		6 6
		Back Next Cancel
٠	Choose "Remove".	
		Change, repair, or remove installation
		Select the operation you wish to perform.
		Change PowerSyncPro has no independently selectable features.
		Repair Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries.
		Remove Removes PowerSyncPro from your computer.
		Back Next Cancel





• Click on "Remove".	PowerSyncPro Setup Ready to remove PowerSyncPro Co Click Remove to remove PowerSyncPro from your computer. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard. Back Remove Back Remove Cancel
PowerSyncPro will be removed.	PowerSyncPro Setup — X Removing PowerSyncPro Please wait while the Setup Wizard removes PowerSyncPro. Status: Removing files Back Next Cance





• Click "Finish".	PowerSyncPro Setup	- • ×
	PowerSyncPro	Completed the PowerSyncPro Setup Wizard Click the Finish button to exit the Setup Wizard.
		Back Finish Cancel





PowerSyncPro Sync Agent

Note that the PSP Sync Agent URL MUST point directly at the PowerSyncPro service on the remote agents port. Since we use gRPC, it cannot go via a reverse proxy or anything that terminates and reestablishes the SSL connection, but it can be directed via our PowerSyncPro Proxy Agent.

Install Sync Agent

On the server that will be hosting the PowerSyncPro Sync Agent service, ensure that you have done the prerequisites, and then:

Choose and create a download directory for your	
source files e.g. C:\SOURCE	🚽 PowerSyncPro Sync Agent Setup – 🗆 X
Download or copy the PowerSyncPro MSI to	Welcome to the PowerSyncPro Sync
C:\SOURCE	Agent Setup Wizard
Double click the PSPSyncAgentInstaller.msi	The Seturi Witzard will install PowerSumPro Sunc Agent on
Click "Next"	your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel
Choose new or accept the default destination folder	
and click "Next".	🛃 PowerSyncPro Sync Agent Setup - 🗆 🗙
	Destination Folder Click Next to install to the default folder or click Change to choose another.
	Install PowerSyncPro Sync Agent to:
	C: \Program Files \Declaration Software \PSP Sync Agent \
	Ghange
	Back Next Cancel



Specify the pre-shared key and PSP URL and then click "Next". It will be prepopulated if running the msiexec command.	PowerSyncPro Sync Agent Setup Connection Please provide the connection options for the Sync Agent Pre Shared Key: R Ifd6Xo2C/g6btpzNIFLEg9+t8Wm99etd0W60ONortcFUq8Ko3 PowerSyncPro URL: https://pspma.itmurray.com/agent
Specify the service account you are going to use to run the PowerSyncPro service. This can be a local account If you are using a gMSA then just the Username is	Back Next Cancel Back Next Cancel Image: Construction of the second second second second to run the Agent service as X
Click "Next"	Use Local System Image: Imag



click "Install".	
	🛃 PowerSyncPro Sync Agent Setup - 🗆 🗙
	Ready to install PowerSyncPro Sync Agent
	Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
	Back Install Cancel
The installer will:	
Create the folder "PSP Sync Agent" under "Program	Towersynchro Setup - X
Files\Declaration Software" and copy the code across.	Installing PowerSyncPro
Install PowerSyncPro Sync Agent service.	Please wait while the Setup Wizard installs PowerSyncPro.
	Status: Copying new files
	Back Next Cancel





Click "Finish".	PowerSyncPro Sync Agent Setup — 🗆 🗙
	Completed the PowerSyncPro Sync Agent Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Run Configuration Tool
	Back Finish Cancel

Configuration of the agent is covered in the PowerSyncPro Configuration Guide





Upgrade Sync Agent

Unless otherwise instructed you can simply run the latest MSI to perform an upgrade.

Uninstall / Reinstall – not recommended

If you opt to first uninstall and re-install any remote agents then you must delete the agent from the PSP Server, delete all the Declaration Software Registry keys and then go through the process of creating a new Pre Shared Key for this Agent and approving it after install and configure

To upgrade PowerSyncPro download the latest files from the download site, then on the server hosting PowerSyncPro:







Click "Install".	
	🛃 PowerSyncPro Sync Agent Setup — 🗆 🗙
	Ready to install PowerSyncPro Sync Agent
	Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
	Back SInstall Cancel
Installer will ask to elevate to Administrative permissions	
	User Account Control
	Do you want to allow this app to make changes to your device?
	51e670ac.msi
	Verified publisher: Declaration Software Ltd File origin: Hard drive on this computer
	Show more details
	Yes No





•	Upgrade will commence.	PowerSyncPro Setup Installing PowerSyncPro Please wait while the Setup Wizard installs PowerSyncPro. Status: Copying new files
•	Click "Finish".	Back Next Cancel
		PowerSyncPro Sync Agent Setup





Repair Sync Agent

Navigate to C:\SOURCE	
Double click RSRSvpcAgentInstaller msi	🛃 PowerSyncPro Sync Agent Setup - 🗆 🗙
 Double click PSPSyncAgentInstaller.msi Click "Next". 	Welcome to the PowerSyncPro Sync Agent Setup Wizard BowerSyncPro Sync Agent Setup Wizard allows you to change the way PowerSyncPro Sync Agent features are installed on your computer or to remove if from your computer. Click Next to continue or Cancel to exit the Setup Wizard. Back Next
• Choose "Repair".	PowerSyncPro Sync Agent Setup Change, repair, or remove installation Select the operation you wish to perform. Change PowerSyncPro Sync Agent has no independently selectable features. Repair Repair Repairserrors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries. Remove Remove Removes PowerSyncPro Sync Agent from your computer. Back Next Cancel





• Click on "Repair".	PowerSyncPro Sync Agent Setup - × Ready to repair PowerSyncPro Sync Agent Click Repair to repair the installation of PowerSyncPro Sync Agent. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
The repair will commence.	Back Regair Cancel PowerSyncPro Sync Agent Setup — X Repairing PowerSyncPro Sync Agent
	Please wait while the Setup Wizard repairs PowerSyncPro Sync Agent. Status: Stopping services Back Next Cance





Click "Finish".	PowerSyncPro Sync Agent Setup	-	×
	Com Age	pleted the PowerSyncPro Syn t Setup Wizard	с
	Click th	e Finish button to exit the Setup Wizard.	
		Back Finish	Cancel





Uninstall Sync Agent

Navigate to C:\SOLIBCE	
 Navigate to C:\SOURCE Double click PSPSyncAgentInstaller.msi Click "Next". 	PowerSyncPro Sync Agent Setup — X Welcome to the PowerSyncPro Sync Agent Setup Wizard Wizard allows you to change the way PowerSyncPro Sync Agent features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Choose "Remove".	Back Next Cancel Back Next Cancel PowerSyncPro Sync Agent Setup − × Change, repair, or remove installation Select the operation you wish to perform.
	Change PowerSyncPro Sync Agent has no independently selectable features. Repair Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries. Remove Removes PowerSyncPro Sync Agent from your computer. Back Next





Click on "Remove".	
	🛃 PowerSyncPro Sync Agent Setup - 🗆 🗙
	Ready to remove PowerSyncPro Sync Agent
	Click Remove to remove PowerSyncPro Sync Agent from your computer. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
	Back Remove Cancel
Elevation will be asked for	
	User Account Control X
	Do you want to allow this app to make changes to your device?
	51e670f8.msi
	Verified publisher: Declaration Software Ltd File origin: Hard drive on this computer
	Show more details
	Yes No





•	PowerSvncPro will be removed.	
	,	🛃 PowerSyncPro Sync Agent Setup — 🗆 🗙
		Removing PowerSyncPro Sync Agent
		Diages wait-while the Seturi Witzerd remover DowerSumPro Sunc Arient
		r case wait while are setup with a removes towersyne to syne Agent.
		Status: Stopping services
		Back Next Cancel
•	Click "Finish".	
		鑁 PowerSyncPro Sync Agent Setup ー X
		Completed the PowerSyncPro Sync
		Agent Setup Wizard
		Click the Finish button to exit the Setup Wizard.
		Back Einish Cancel

PowerSyncPro Password Agent

Note that the PSP Password Agent URL MUST point directly at the PowerSyncPro service on the remote agents port. Since we use gRPC, it cannot go via a reverse proxy or anything that terminates and reestablishes the SSL connection, but it can be directed via our PowerSyncPro Proxy Agent.





Install Password Agent

On the server that will be hosting the PowerSyncPro Sync Agent service, ensure that you have done the prerequisites, and then:





Specify the pre-shared key and PSP URL and then click "Next". It will be prepopulated if running the msiexec command.	PowerSyncPro Password Agent Setup Connection Please provide the connection options for the Password Sync Agent Pre Shared Key: tGivN1I5nJ8gsctcogltbfyyY21R4eZ+HBLTRPETVLtp8Q18ydTt4 PowerSyncPro URL: http://psp-pen-app01.psppentrg.local:5001/agent
	Back Next Cancel
click "Install".	PowerSyncPro Password Agent Setup — X Ready to install PowerSyncPro Password Agent Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
	Back Install Cancel





The installer will:	
Create the folder "PSP Password Agent" under	🛃 PowerSyncPro Password Agent Setup - 🗆 🗙
"Program Files\Declaration Software" and copy the	Installing PowerSyncPro Password Agent
code across.	
Create a folder at C:\ProgramData\Declaration	Please wait while the Setup Wizard installs PowerSyncPro Password Agent.
Software\Password Agent	Status: Starting services
Install PowerSyncPro Password Agent service.	
	Back Next Cancel
Click "Finish".	
	🛃 PowerSyncPro Password Agent Setup - 🗆 🗙
	Completed the PowerSyncPro Password
	Agent Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Back Finish Cancel
The server will need to be rebooted to activate the	
password filter	提 PowerSyncPro Password Agent Setup 🛛 👋
	You must restart your system for the configuration changes made to PowerSyncPro Password Agent to take
	effect. Click Yes to restart now or No if you plan to manually restart later.
	Yes No





Upgrade Password Agent

Unless otherwise instructed you can simply run the latest MSI to perform an upgrade.

Uninstall / Reinstall – not recommended

If you opt to first uninstall and re-install any remote agents then you must delete the agent from the PSP Server, delete all the Declaration Software Registry keys and then go through the process of creating a new Pre Shared Key for this Agent and approving it after install and configure

To upgrade PowerSyncPro download the latest files from the download site, then on the server hosting PowerSyncPro:







•	Click "Install".	PowerSyncPro Password Agent Setup – C × Ready to install PowerSyncPro Password Agent
•	Upgrade will commence.	Back Install Cancel PowerSyncPro Password Agent Setup — X Installing PowerSyncPro Password Agent Second
		Please wait while the Setup Wizard installs PowerSyncPro Password Agent. Status: Copying new files Back Next Cancel





Click "Finish".	伊 PowerSyncPro Password Agent Setup	-
	Completed the Pow Agent Setup Wizard	erSyncPro Password
	Click the Finish button to exit	: the Setup Wizard.
	Back	Finish Cancel





Repair Password Agent

There is no option to repair the password agent, please uninstall and re-install





Uninstall Password Agent

Novigato to C:\SOURCE	
• Navigate to C. (SOURCE	PowerSyncPro Password Agent Setun
 Double click PSPPasswordAgentInstaller.msi 	
• Click "Next".	Welcome to the PowerSyncPro Password Agent Setup Wizard The Setup Wizard allows you to change the way PowerSyncPro Password Agent features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Badk Next Cancel
Chaosa "Pamoya"	
• Choose Remove .	🛃 PowerSyncPro Password Agent Setup – 🗆 🗙
	Change, repair, or remove installation
	Select the operation you wish to perform.
	Change PowerSyndPro Password Agent has no independently selectable features.
	Repair PowerSyndPro Password Agent cannot be repaired.
	Remove Removes PowerSyncPro Password Agent from your computer.
	Back Next Cancel





•	Click on "Remove".	PowerSyncPro Password Agent Setup - X Ready to remove PowerSyncPro Password Agent Click Remove to remove PowerSyncPro Password Agent from your computer. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
•	PowerSyncPro will be removed.	Back Remove Cancel PowerSyncPro Password Agent Setup Removing PowerSyncPro Password Agent Please wait while the Setup Wizard removes PowerSyncPro Password Agent. Status:
		Back Next Cancel





Completed the PowerSyncPro Password Agent Setup Wizard Click the Finish button to exit the Setup Wizard.
Click the Finish button to exit the Setup Wizard.
Back Finish Cancel





PowerSyncPro Agent Proxy

Install Agent Proxy

- Choose and create a download directory for your source files e.g. C:\SOURCE
- Download or copy the AgentProxyInstaller.msi to C:\SOURCE
- Double click the AgentProxyInstaller.msi

Welcome to the PowerSyncPro Agent Proxy Setup Wizard

🔁 PowerSyncPro Agent Prox	y Setup — 🗆 🗙
\bigcirc	Welcome to the PowerSyncPro Agent Proxy Setup Wizard
PowerSyncPro	
(¢)	your computer. Click Next to continue or Cancel to exit the Setup Wizard.
\frown	
	Rade Next Careel

Destination Folder



PowerSyncPro Agent Proxy Setup -		\times
Destination Folder Click Next to install to the default folder or click Change to choose another.		6
Install PowerSyncPro Agent Proxy to:		
		_
Change		
Back Next	Ca	ncel
	_	

PSP Connection Configuration



SP Connection C	Configuration
Please provide your	PSP connection details for the Remote Agent Proxy
SP Host Url	https://pspserver.contoso.t2t.dev:5001
SP REST Url	https://pspserver.contoso.t2t.dev:5001
	,
	Back Next Cancel

PSP Host URL and PSP REST URL

This is the fully qualified SSL enabled endpoint name of your PowerSyncPro server. This should not have any trailing characters e.g. /Agent

Confirm that you can reach that endpoint from this server

This is the value that will be re-written by the Agent Proxy service from the value that is received by the Remote Sync Agent or Remote Password Agent that is returned by the Active Directory SCP value.

e.g.

If your SCP entries are listed as: <u>https://pspproxy1.contoso.com:5001</u> and <u>https://pspproxy2.contoso.com:5001</u>that is the FQDN of the Agent Proxy servers then the Remote Sync Agent and Password Sync Agent will use <u>https://pspproxy</u> to communicate back and forth.





The Agent Proxy server will rewrite requests it receives at <u>https://pspproxy[x].contoso.com:5001/Agent</u> to <u>https://pspserver.contoso.t2t.dev:5001/Agent</u> in the example above.

HTTPS Certificate

This certificate <u>must</u> be trusted by all Remote Agents connecting to this proxy server. If you already have an SSL certificate on this server you can use that, or you can import a new one in advance, otherwise the installer can create one for you. If you choose to have the installer create one then you must remember this is a self-signed certificate and will need to be imported on all Remote Agent servers that need to contact this Remote Agent Proxy Server.

👤 PowerSyncPro Agent I	Proxy Setup - 🗆 🗙
HTTPS Certificate Select an existing cert	ficate or create a new one
Certificate	✓ <create new=""> CN=pspproxy.fabrikam.t2t.local</create>
	Back Next Cancel

Create New

PowerSyncPro Agent	Proxy Setup — 🗆 🗙	<
HTTPS Certificate		\
Select an existing cer	tificate or create a new one	۶.
		_
Certificate	<create new=""> ~</create>	
Enter an expiry (in mo	ths) for a self-signed certificate to use for HTTPS communications	
Expiry (months)	24	
		_
	Back Next Cancel)

This will be seen at Certificates (Local Computer) after completion.

藩 Console1 - [Console Root\Certifica	ates (Local Computer)\Personal\Certif	icates]		
🚰 File Action View Favorites	Window Help			
🔶 🔿 📶 🛅 🖬 🖉				
Console Root Certificates (Local Computer) Personal	Issued To	lssued By pspproxy.fabrikam.t2t.local	Expiration Date 31/10/2026	Intended Purpo <all></all>

Ready to install PowerSyncPro Agent Proxy



PowerSyncPro Agent Proxy Setup	×
Ready to install PowerSyncPro Agent Proxy	ò
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.	
Back Sack Cancel	

Installing PowerSyncPro Agent Proxy



PowerSyncPro Agent Proxy Setup	-		×
Installing PowerSyncPro Agent Proxy			Ô
Please wait while the Setup Wizard installs PowerSyncPro Agent Proxy			
Status:			
Back Next		Car	ncel

Completed the PowerSyncPro Agent Proxy Setup Wizard



PowerSyncPro Agent Proxy	Setup	_		×
PowerSyncPro	Completed the PowerSyn Proxy Setup Wizard Click the Finish button to exit the Se	tup Wizard	igent	
↑ (1)				
	Back Fini	sh	Cano	el

Windows Service

After successful installation you will see the Windows Service running



Services (Local)										
PowerSyncPro Agent Proxy	Nan	ne				Description		Status	Startup Type	Log On As
	🔍 P	ower				Manages power pol	icy and po	Running	Automatic	Local System
Stop the service	🖏 P	owerSync	Pro Ager	nt Proxy		PowerSyncPro Rem	ote Agent P	Running	Automatic	Local System
Restart the service	0.								Manual (Trig	Local System
	0	PowerSyr	ncPro Age	ent Proxy P	roperties (Loc	al Computer)	X	Running	Automatic	Local System
Description:	0	General	Log On	Recovery	Dependencies				Manual	Local System
PowerSyncPro Remote Agent Proxy Service	0		Log on	riccovery	Dependencies	,			Manual	Local System
Service	0	Service	name:	PowerSyn	cPro Agent Prox	y.			Manual (Trig	Local System
	0	Display	name:	PowerSyn	:Pro Agent Prox	v			Manual	Local System
	0	Dispidy			on to rigon the	<i></i>		Running	Automatic (D	Local System
	0	Descrip	tion:	PowerSyn	cPro Remote Ag	gent Proxy Service			Manual	Local Service
	0							Running	Manual	Local Service
	0	Path to	executabl	e:					Manual	Local System
	0	"C:\Pro	gram Files	\Declaration	n Software\PSP	Remote Agent Proxy	Declarat .		Manual	Local System
	0	Charlen I.		A					Manual	Local System
	0	Startup	type:	Automatic	;		<u> </u>	Running	Manual	Local System
	0							Running	Manual	Network Service
	iõ).						_	Running	Manual	Local System

Registry

The following values will be seen in the registry



Firewall

You will need an inbound firewall rule for TCP port 5001 and TCP Port 443 on this server for the Agent Proxy to receive requests.

You can use the following at an elevated command prompt: netsh advfirewall firewall add rule name="PSP Proxy Service" dir=in action=allow protocol=TCP localport=5001, 443





SCP Script

Service Connection Points

Service Connection Points (SCPs) serve as directory objects that store information about services and their network locations, enabling seamless client access to these services. SCPs play a vital role in environments where services need to be easily accessible and discoverable, ensuring efficient communication and operational continuity across the network.

Distributable Script Manage-PSPSCP.ps1

Use the Manage-PSPSCP.ps1 to create and configure your SCP entry and populate the attribute serviceBindingInformation. You can download the script from GitHub (https://github.com/PowerSyncPro/MigrationAgent)

Options

List the SCP if available - without any parameters ./Manage-PSPSCP.ps1

Add URL to a new or existing SCP ./Manage-PSPSCP.ps1 -ProxyURL https://pspproxy1.contoso.com:5001 ./Manage-PSPSCP.ps1 -ProxyURL https://pspproxy2.contoso.com:5001

Remove a URL from the SCP .//Manage-PSPSCP.ps1 -ProxyURL http://something:5000/agent -Remove

Remove the SCP altogether ./Manage-PSPSCP.ps1 -Remove

Upgrade Agent Proxy

Unless otherwise instructed you can simply run the latest MSI to perform an upgrade.

Uninstall Agent Proxy

Go to Add/Remove programs and choose Uninstall.





To uninstall a program, select it from th	he list and then click Uninstall. Change, or Repa	air.		
to annistan a program, select it norma	ne ise and eneri ellek onlinstall, enange, or hepe			
Organize 🔻 Uninstall Repair				
Name	Publisher	Installed On	Size	Version

To completely uninstall delete the registry keys at:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Declaration Software



Troubleshooting PowerSyncPro

You will find detailed logs in the C:\PowerSyncProLogs folder. If no logs are generated, then check that the service can start and that the service account has full control on the C:\PowerSyncPro Logs folder.

User already exists in the database

When the service account already exists in the SQL database then the following warning is shown. The installation will continue and complete successfully



👘 Power	SyncPro Setup	×
<u> </u>	1: Error setting up database: User, group, or role already exists in the current database.	
	ОК	

Installer fails to complete

If the installer fails to complete, then the first port of call is to check the Application Event log to see if any errors are shown. If not, then check C:\PowerSyncProLogs\Logs.txt

Service won't start

Check that the service account has the right to run as a service

Browser page won't load

Check that the service is running



