

Register TimeLog PSA with the Microsoft identity platform

This document guides you through the workflow on adding the TimeLog PSA app in your Azure Active Directory and creating the TimeLog integration credentials.

In short is the installation done in five steps

- Add/register the TimeLog PSA app in your Azure portal. When adding the TimeLog PSA is it important to copy the Client secret and Application (client) ID (page 6 in the attached PDF) Both codes are to be used when establishing the connection between TimeLog and you BC installation.
- 2. Install the TimeLog PSA app from BC Extension Marketplace
- Run the TimeLog PSA setup in your BC installation via Assisted setup. Copy the Tenant ID and Environment name to be used when establishing the connection. See page 7 in the attached PDF.
- 4. Enable the TimeLog PSA application in your BC installation.
- 5. Establish the connection between TimeLog and the BC installation. Here, the four copied pieces of information must be used.

Bullet 1 needs access to your Azure portal

Bullet 2, 3 & 4 needs system admin. rights in the BC installation

Bullet 5 needs system admin rights in the TimeLog installation

Prerequisites:

Installed MSAL.PS Powershell module.

User access need to be Global Administrator or Privileged Role Administrator

This workflow description is based on Microsoft <u>Quickstart: Register an application with the</u> <u>Microsoft identity platform</u>

1. Azure AD Application registration

Sign into azure portal (https://portal.azure.com) and search on 'App registrations'





2. Register an application

Click '+ New registration'. Provide a 'Name' for application, set 'Supported account types' to "Accounts in this organizational directory only".

In **Redirect URI** you select **Web** and add the URL for your Business Central on-premises browser client and click **'Register'** button to add the TimeLog integration application.

= Microsoft Azure	P	Search resources, services, and docs (G+/)	😕
Home > App registration	5.2		
Register an app	olicatio	on …	×
* Name			
The user-facing display nam	e for this ag	uplication (this can be changed later).	
TimeLog\$2\$		Add your application name	~
Supported account typ	es.		
Who can use this application	h or access	this API?	
 Accounts in this organic 	ational dire	ectory only (timelogconnect.comicrosoft.com only - Single tenant)	
Accounts in any organi	tational dire	ctory (Any Azure AD directory - Multitenant)	
O Accounts in any organic	tational dire	ctory (Any Azure AD directory - Multitenant) and personal Microsoft accounts	i (e.g. Skype, Xbox)
O Personal Microsoft acco	unts only		
Help me choose			
Redirect URI (optional)			
We'll return the authenticati changed later, but a value is	on response required fo	to this URI after successfully authenticating the user. Providing this now is op ir most authentication scenarios.	itional and it can be
Web	~	https://businesscentral.dynamics.com/OAuthLanding.htm	
Register an app you're work applications.	ing on here	Integrate gallery apps and other apps from outside your organization by add	ling from Enterprise
By proceeding, you agree to	the Micros	oft Platform Policies 😅	
Register			





3. API permissions

Setup API permissions for the newly created application, go to 'API permissions' and click Add an application:

■ Microsoft Azure	${\cal P}$ Search resources, services, and docs (G+/)	D & @ @ R #	melog2@timelogconn 🧕
Home > App registrations >	TSG TimeLog PSA app		
₋ TSG TimeLog	PSA app API permissions 🛷 …		×
P Search	≪ ◯ Refresh 🛛 🖗 Got feedback?		
Uverview			
📣 Quickstart	The "Admin consent required" column shows the default value for an organization. However, user column shows the default value for an organization.	nsent can be customized per permission, user, or app.	This column may not $ imes$
🚀 Integration assistant	reflect the value in your organization, or in organizations where this app will be used. Learn more		
Manage	Configured permissions		
Branding & properties	Applications are authorized to call APIs when they are granted permissions by users/admins as part	of the consent process. The list of configured perm	issions should include
Authentication	all the permissions the application needs. Learn more about permissions and consent		
📍 Certificates & secrets	+ Add a permission \checkmark Grant admin consent for Timelog Connetor		
III Token configuration	API / Permissions na Add a permission pe Description	Admin consent requ Status	
API permissions	✓ Microsoft Graph (1)		
Expose an API	User.Read Delegated Sign in and read user profile	No	
App roles			
A Owners	To view and manage consented permissions for individual apps, as well as your tenant's consent sett	tings, try Enterprise applications.	
🕹 Roles and administrators			
🚥 Manifest			
Support + Troubleshooting			

In order to acquire tokens as application (used for automation APIs), click: 'Dynamics 365 Business Central' - 'Application permissions' and mark "app_access" and "API.ReadWrite.All"

		ignee in open
elect	permissions	expand al
Star	rt typing a permission to filter these results	
Pe	rmission	Admin consent required
√ ot	ther permissions (1)	
<u>_</u>	app_access ① Access according to the application's permissions in Dynamics 3	365 Business Central Yes
✓ Ac	iminCenter	
	AdminCenter.ReadWrite.All ① Full access to Admin Center API	Yes
✓ AF	21 (1)	
2	API.ReadWrite.All ① Full access to web services API	Yes
V AL	utomation	
	Automation.ReadWrite.All ① Full access to automation	Yes

Click Add permission



4. Grand admin consent confirmation

After permissions are added, click **'Grant admin consent for ...'**. Click **Yes** button to grant consent for the requested permissions.

Status in the table of permissions should change to 'Granted'

	Microsoft Azure	P Search resources, services, and docs	s (G+/)			Ģ	e (© (ବ୍ୟ	timelog2@timelog TIMELOG CONNETOR (TI	
Hom	ne > App registrations >	TSG TimeLog PSA app										
-	TSG TimeLog	PSA app API permiss	sions 🖉 …									\times
۶ جر	Search	🛛 « 🕐 Refresh 🛛 🗖 Got	feedback?									
18. 0	Overview	Grant admin conse	ent confirmation.									
#	Quickstart	Do you want to grant co	nsent for the requested	permissions for all accounts in Timelog Conneto	or? This v	vill upc	ate an	y existir	ng adı	min co	onsent records this a	pplication
# 1	ntegration assistant	already has to match wh	at is listed below.									
Man	age	Yes No										
	Branding & properties											
Э	Authentication	Configured permissio	ns									
? (Certificates & secrets	Applications are authorized	d to call APIs when they a	re granted permissions by users/admins as part of the	ne conse	nt proce	ss. The	list of c	onfigu	ured p	ermissions should inc	lude
111 -	Token configuration	an the permissions the app	incation needs. cean mo	e about permissions and consent								
	API permissions	+ Add a permission	√ Grant admin consent ∫իղ	for Timelog Connetor								
	Expose an API	API / Permissions name	Grant admin consent fo	or Timelog Connetor		Admi	n cons	ent requ	I S	tatus		
112	App roles	✓ Dynamics 365 Business	Central (2)									
24 (Owners	API.ReadWrite.All	Application	Full access to web services API		Yes			-	🛕 No	ot granted for Timelo	
2 , F	Roles and administrators	app_access	Application	Access according to the application's permissions in	n Dyna	Yes			-	🛕 No	ot granted for Timelo	•••
	Manifest	∽ Microsoft Graph (1)										
Supp	oort + Troubleshooting	User.Read	Delegated	Sign in and read user profile		No						
Ø.	Troubleshooting											
2	New support request	To view and manage conse	ented permissions for ind	ividual apps, as well as your tenant's consent settings	s, try Ente	erprise a	pplicat	ions.				





5. Certificates and secrets

Setup client secret (used in authorization code flow scenario and application scenario):

Go to 'Certificates & secrets' - 'Client secrets', click '+ New client secret'

	Microsoft Azure	₽ Search	resources, services, ar	nd docs (G+/)			$\mathbf{\Sigma}$	P	P		0	<u>র</u> ম্ব	timelog2@timelogco TIMELOG CONNETOR (TIME	onn LOG	0
Hom	ne > TSG TimeLog PSA a	app													
1	TSG TimeLog	g PSA a	pp Certifica	ates & secre	ets ☆ …									×	¢
2	Search	*	Got feedback?	2											ŝ
18. 0	Overview														
۵۵ (Quickstart		Credentials enable of scheme). For a high	confidential applicatio er level of assurance,	ons to identify themselves we recommend using a ce	o the authentication service wher rtificate (instead of a client secret)	as a cred	g token lential.	s at a w	eb add	ressab	e locati	on (using an HTTPS		ŝ
* 1	Integration assistant														
Man	age		Application re	egistration certificates, s	secrets and federated creden	tials can be found in the tabs below.								×	
= 1	Branding & properties														
Э /	Authentication		Certificates (0)	Client secrets (0)	Federated credentials	(0)									
† (Certificates & secrets	رالس	A secret string that	t the application uses	to prove its identity when	requesting a token. Also can be r	eferred to	as app	lication	passw	ord.				
111	Token configuration	0				-									
-	API permissions		+ New client se	ecret											
<u></u>	Expose an API		Description		Expires	Value 🛈			S	ecret I	D				
III)	App roles		No client secrets h	nave been created for	this application.										ġ
24 (Owners														
. 1	Roles and administrators														100
	Manifest														

Add some Description, choose 'Expires' setting to 24 months and click 'Add'

	resources, services, and docs (G+/)	D 🕞 🗳	~ 0 ~	timelog2@timelogconn
Home > App registrations > TSG TimeL TSG TimeLog PSA a	og PSA app pp Certificates & secrets → …	Add a client secret		×
	₽ Got feedback?	Description Expires	TimeLog BC key 24 months	~
Overview Quickstart // Integration assistant	Credentials enable confidential applications to identify themselves to the authent scheme). For a higher level of assurance, we recommend using a certificate (instea			
Manage	Application registration certificates, secrets and federated credentials can be fou			
 Authentication 	Certificates (0) Client secrets (0) Federated credentials (0)			
Certificates & secrets Token configuration	A secret string that the application uses to prove its identity when requesting a			
API permissions	+ New client secret			
💩 Expose an API	Description Expires Value			
App roles Owners	No client secrets have been created for this application.			
 Roles and administrators Manifest 				
Support + Troubleshooting				
Troubleshooting				
Rew support request		Add Cancel		





After secret is created, copy secret 'Value' and save for later when setting up the TimeLog to BC-integration.

	n resources, services, and docs (G+/)			D G	ے 🗘	ଡ ୍ଟ	timelog2@timelogconn TIMELOG CONNETOR (TIMELOG	8
Home > TSG TimeLog PSA app	pp Certificates & see	crets 🖈 …					2	×
₽ Search «	Got feedback?							
Overview Quickstart Integration assistant	Got a second to give us some fe	edback? \rightarrow					×	
Manage	Credentials enable confidential appli scheme). For a higher level of assura	cations to identify themselves to nce, we recommend using a certi	the authentication service wher icate (instead of a client secret)	n receiving toker) as a credential.	ns at a web addr	essable locat	ion (using an HTTPS	
Branding & properties Authentication	 Application registration certification 	tes, secrets and federated credentia	is can be found in the tabs below.				×	
Certificates & secrets Token configuration API permissions	Certificates (0) Client secrets A secret string that the application	(1) Federated credentials (C uses to prove its identity when re) questing a token. Also can be r	eferred to as ap	plication passwo	ird.		
Expose an API App roles	+ New client secret	2.0						
 Owners Roles and administrators 	Description TimeLog BC key	Expires 11/11/2024	Value () O-q8Q~EK6.F8rlh8MnTh_h	Copy t mMoTrox95u	o clipboard et IC	-8835-4db0-	9707-84d9e1d7a1 🗈 📋	
Manifest Support + Troubleshooting					0			

Copy the **Client secret** of the registered application. You will need this later when setting up the TimeLog to BC-integration.

6. Copy client ID

Select Overview

Copy the **Application (client) ID** from the App registrations – Overview. You will need it when adding the new client into your Business Central Microsoft Entra Applications

😑 Microsoft Azure 🖉	Search resources, services, and docs (G+/)	D 🖟 🖓 🛞 Ø 🖓 timelog2@timelogconn 🧶
Home > TSG TimeLog PS	5A app 🖋 …] « 💼 Delete ⊕ Endpoints 🖼 Preview features	×
 Overview Quickstart Integration assistant Manage Branding & properties Authentication Certificates & secrets 	▲ Essentials Display name TSG TimeLog PSA app Application (client) ID 78e8a12f-beed-4835-b318-53897aa0e1cf Object ID cae634e9-b476-403f-9382-a7cb1bd80e7d Directory (tenant) ID be0bba3-cd06-de64-b9ef-e319d4d9e9e7	Client credentials <u>0.certificate, 1.secret</u> Redirect URIs <u>1.web, 0 spa, 0.public client</u> Application ID URI <u>Add an Application ID URI</u> Managed application in local directory <u>TSG TimeLog PSA app</u>
III Token configuration Image: API permissions Imag	Supported account types My organization only Starting June 30th, 2020 we will no longer add any new features to Azure Act technical support and security updates but we will no longer provide feature and Microsoft Graph. Learn more Get Started Documentation	ive Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL)

Copy the **Application (client) ID** of the registered application. You will need in the Business Central Microsoft Entra application setup.



7. Install the TimeLog PSA app in your Business Central

Open **Extension Marketplace** from within your Business Central installation and search for **TimeLog PSA**. Please be aware that you have the user rights to buy new applications to your Business Central.

Click Free trial and accept Microsoft license agreements and follow the guidelines.

When the TimeLog PSA app have been installed are you to run **Setup TimeLog PSA** in Assisted setup.

Assisted Setup			
\nearrow Search Actions \backsim			¢ 7
☆ Title	Completed	Learn more	Description
✓ Set up your company		_	í
Set up exchange rates service		Read	View or update currencies and exchange r
Enter company details		Read	Provide your company's name, address, Io
Set up Value-Added Tax (VAT)		Read	Set up VAT to specify the rates to use to c
Set up VAT Group Management		Read	VAT Group Management allows independ
Set up VAT Group Management		Read	VAT Group Management allows independ
Fetch users from Microsoft 365		-	Get the latest information about users and
		_	
Set up TimeLog PSA		Read	Manage projects and time with TimeLog
ನ Setup Graphical Inventory Profile		Read	Overview of future supply problems witho
		_	
Set up outgoing email		Read	Set up the email accounts your business w

Click on **Setup TimeLog PSA** and click the slider next to Existing User, and click **Next**.







Copy the **Tenant ID key** and save it for later when setting up the integration connection.

Copy the **Environment name** and save it for later when setting up the integration connection.

Click **Next** and **Finish** on the next window to close the TimeLog PSA configuration.



If your TimeLog installation is having multi legal entities activated, are you to run the **Setup TimeLog PSA** on each Business Central company that is to get connected to your TimeLog installation and use the unique Tenant ID and Environment name when setting up the connection.

8. Setup of Microsoft Entra Application in Business Central

Complete these steps to set up the Microsoft Entra application for service-to-service authentication in Business Central.



In your Business Central client, search for Microsoft Entra Applications

Click New,

	Dynamics 365	Busines	s Central					L N	Environment: Production	Q	Q	©	?	Fait
	TimeLog A/S	\leftarrow	Microsoft Entra Applications				Д	đ	2					
	Customers Ven			Manage			Ŕ	7				2		
	Headline		Client ID		Description		State			norte				
	Hi, Th									cel Re	ports			
			{af30e371-ad4a-4097-88c1-5555e7ada96	f}	Dynamics 365 Bu	siness Central for virtuelle ta	. Disabled							
	Guam		{ea76fed3-daf0-4865-a0c5-8d40c168791a	a}	Anonyme ekstern	e brugere af Power Pages	Disabled							
			{bf9c07cb-3385-4de3-a63a-b630340b14b	e}	Godkendte ekste	ne Power Pages-brugere	Disabled							



Past the copied Application (client) ID into **Client ID**, add a description name and change State to **Enable** and click **Yes** to the new created user.

 *	Dynamics 365	Business Central					Reference Production
	Tin 🗲	Microsoft Entra A;	Microsoft Entra Application	on Card 🖉 🖻 PSA app	+ 🛍	イ Saved ロ イ	2
	Hea	Client ID (c6c095b0-8b63-	📌 Grant Consent 🛛	More options			ports
	G	(af308371-a04a- (ea76fed3-daf0 (bf9c07cb-3385	Client ID Description	(c6c095b0-8b63-402e-938b-0a TimeLog PSA app	Extension App ID App Name	{00000000-0000-0000-0000-00	cel Reports
	e o		State	Enabled Stabled Enabled	User ID	(2ee7be10-fc4d-496c-959e-c5	
		٢			You must set the State fie	Initial of parameters and the pa	•

Azure Active Directory Application Card

Add the User Group

- D365 AUTOMATION
- D365 BASIC ISV

Do not add a company name to the added user groups.

This is selected when configuring the BC integration in TimeLog system administration.

and User Permission Sets

- D365 BASIC ISV
- D365 AUTOMATION
- SCBTIMELOGPSACORESET
- SCBTIMELOGPSADKSET

TimeLog PSA app Grant Consent More options General (c6cl 0ac5) Extension Client ID App ID . {0000000-0000-0000-0000-00000000000} TimeLog PSA app Description App Name State Enabled User inform Contact Information User ID (2ee7b db3) TIMELOG PSA APP User Name You must set the State field to Disabled before you can make changes to this app. User Groups Manage 68 Code 1 Name Company Name 1 Left blank D365 AUTOMATION Dynamics 365 Automation D365 BASIC ISV D365 Basic ISV-adgang Left blank 68 User Permission Sets Manage Company † Permission Scope → D365 AUTOMATION : Dynamics 365 Autom... Base Application System D365 BASIC ISV Dyn. 365 Basic ISV Acc. Base Application System SCBTIMELOGPSAC... TimeLog PSA CORE TimeLog A/S TimeLog PSA CORE System SCBTIMELOGPSAD... TimeLog PSA DK TimeLog A/S TimeLog PSA DK System

(2) B

+ 🛍

If you have other apps installed in your Business Central installation, will you perhaps be needing to add additional permissions or the superuser permission **SUPER (DATA)** to your User Permissions Sets.

The added TimeLog PSA is now added in your Business Central Active Directory and you are now ready to install the TimeLog PSA app and run the setup



🗸 Saved 🗖 🧩



9. TimeLog – BC integration connection configuration

Add the Business central integration in TimeLog System administration >> Integrations and API >> Integrations and click **Configure Business Central**.

Add the copied credentials into the related fields in the user interface.

🛊 System administration	ו		Back to TimeLog 🕜 😫
🖞 System administration		Microsoft Dynamics 365 Business Central integr	ration setup
Search	۹	Streamline your processes, make smarter decisions, and accelerate growth with Dyn management solution designed for small to medium-sized businesses.	namics 365 Business Central—a comprehensive business
Set up TimeLog here	Ŭ	This integration is connected to the legal entity TimeLog SE .	Microsoft Dynamics 365
Approval processes	~	Connection Not established Integration Disabled	Setup of integration to Microsoft Dynamics 365
Reports	~	Tenant ID	In order to create a connection between Timel og and
Projects	×	Copied from BC Assisted Setup Environment	Business Central, you must indicate the login information for your Business Central account.
🕱 Employees	~	Copied from BC Assisted Setup	Read more about Microsoft Dynamics 365 Business Central here
S Finance	~	Client ID	
Customers	~	Copied in step 6 Client secret	
Integrations and API	~	Copied in step 5	
General settings	~	Connect	

When you have added the credentials information in the four fields are you to click **Connect** to establish the connection to your Business Central and you get access to the Business Central integration configuration.

Click the question icon O in the top right corner to open the integration configuration guide in our Help Center.

