

# 4PS API

Link 4PS Construct  
and your  
specialist software



## **Link all your systems with 4PS Construct**

You stay in control of your primary operational processes with our integrated software solution 4PS Construct. Besides 4PS Construct, your employees may also use other software packages like a payroll application for administration, and logistics software in your warehouse.

As these systems are often as yet not connected with 4PS Construct, people will often have to enter data twice. This not only takes up time but is prone to errors. And the fragmented software means you still do not have a general outline of all the data and processes in your company.

Do you want to increase efficiency and bring data together in one system? Link your software applications with 4PS Construct using the new 4PS API.

# 4PS API

## What is 4PS API?

API is the abbreviation for Application Programming Interface. This interface ensures that 4PS Construct can communicate with other software applications. This way 4PS Construct will exchange data easily, in a standardised and safe manner.

For you this means that data, for example taken from external planning software, can be retrieved using an API, and transferred to the Projects module in 4PS Construct. No more transferring data manually!

## Default protocol for data transfer

If two systems have to communicate through the internet APIs are the way to go. The well-known and often used SOAP computer protocol is no longer always the best solution. And, as Microsoft has said that it will no longer support the SOAP protocol in the near future, 4PS has lined up the replacement: 4PS API based on OData4.

4PS API means that you have a future-proof connection between 4PS Construct and other software application.



“Our 4PS API is based on the latest technology, making the new 4PS API six times faster than the old SOAP web services.”

Dirk-Jan Nieuwenhuizen,  
Product manager

# 4PS API

## Advantages of 4PS API

### > Link software or customised applications to 4PS Construct

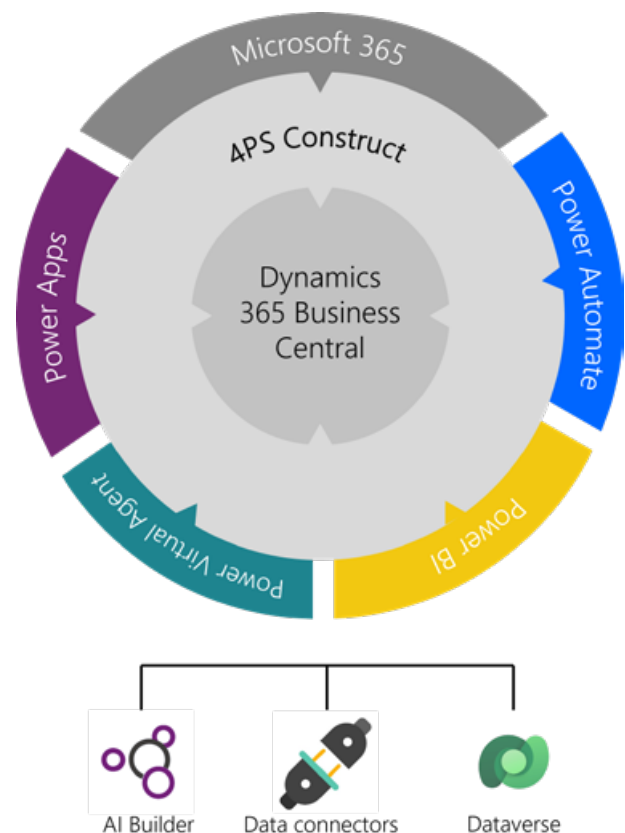
Koppel eigen software of externe software met de 4PS API aan 4PS Construct. Zo blijft u werken met specialistische applicaties maar zorgt u voor die één waarheid in uw ERP-pakket 4PS Construct.

### > Work more efficiently and save time

4PS API makes systems communicate together. You avoid all that manual work, as well as errors when data is typed in 4PS Construct manually. By automating the process with data exchange through 4PS API you save money!

### > Integrate with the Microsoft Power Platform

4PS API ensures an integration of 4PS Construct with the Microsoft Power Platform for the automation and standardisation of activities. For example, register data in a Power App and send it automatically to 4PS Construct, or create an automated workflow in Power Automate, with data taken from 4PS Construct.



# 4PS API

## Good to Know!

### Version management

The API supports two versions of 4PS Construct.

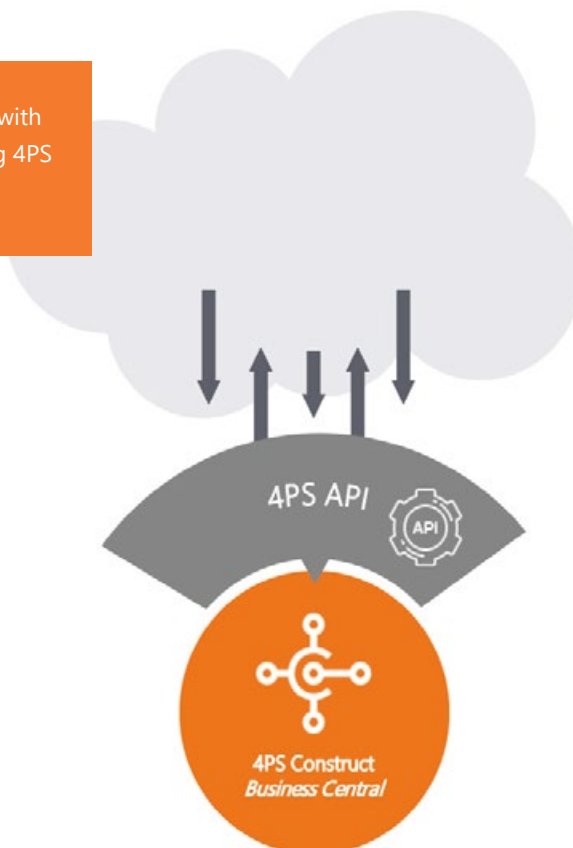
4PS API can be linked to the version of 4PS Construct that your company runs, and to a version which you can test extensively. This gives you the time to calmly assess the impact of the upgrade on your customised connections and you do not need to update all existing 4PS API software links immediately after a release.

### Latest technology

4PS API also supports webhooks. A webhook is an automated message that is sent to an application when modifications are made in the data of another application.

Based on this signal you can set an action, like retrieving a modified date in your planning software and importing it in 4PS Construct.

> Connect 4PS Construct with other software tools, using 4PS API



## What are the possibilities?

Do you want to realise a link with 4PS API? Then the following options are available:

### > Link by 4PS

- Use 4PS API for links with the **Microsoft Power Platform**: the basic functionalities of 4PS Construct;
- If the software supplier uses its own API, then 4PS can link both systems with [Azure API Management](#) or [Azure Functions](#).

### > Customisation by external software supplier

The external software supplier provides customisations to its API, making a connection with 4PS API.

### > Customisation link by external IT service provider

Do you want to have 4PS Construct communicate through the standard 4PS API of an external software supplier? Then you need tooling that links both standard interfaces.

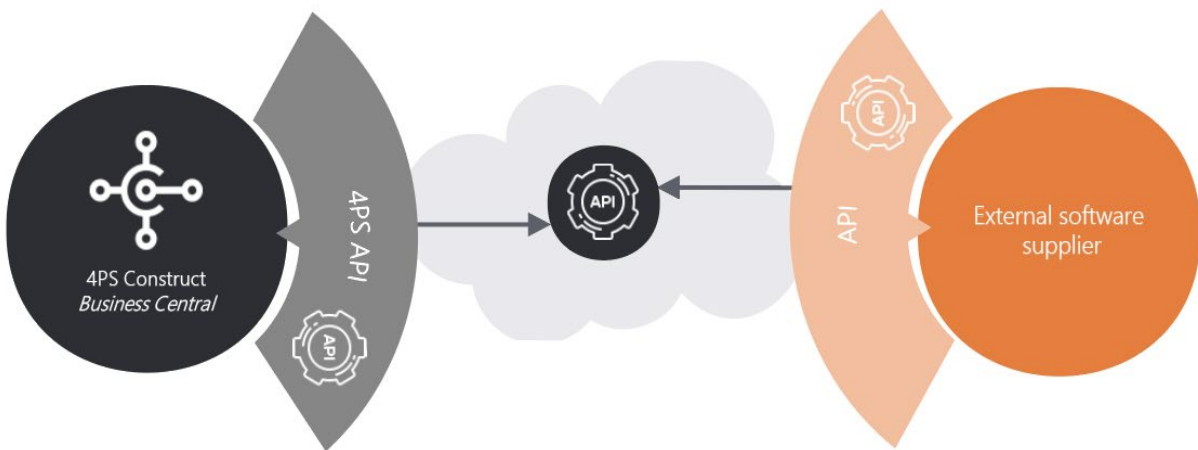
The customised interface regulates the data exchange between both systems and is fully aligned with your software setup.

This connecting API can be designed and build by an external IT service provider, or you can have it designed by your own developers.

### Features:

- External software supplier communicates with 4PS API;
- External software supplier receives updates through webhooks;
- No code modifications or webservice calls can be made from 4PS API.

> Links using the 4PS API



# 4PS API

## 4PS API on the job

Curious to see how 4PS API can be used in your company and what interfaces are possible? These are some possibilities!

4PS API Module	Functionality
4PS Document API	Link your Document Management System (DMS) or external document library to 4PS Construct.
4PS Calculatie API	Link external estimate software with 4PS Construct for a better understanding of the financial information of projects.
4PS Finance API	The Finance API establishes a connection between your external accounting package and your logbook and general ledger, among other things.
4PS Job API	Integrate payroll, department budgets and contract awards from external software with 4PS Construct.
4PS HR API	Link your HR-specific software and your ERP package 4PS Construct and combine information about people, leave and time accounting in one system.
4PS CRM API	4PS CRM API transfers data regarding contacts, customers and suppliers from your CRM to 4PS Construct.
4PS Service API	Import information about long-term maintenance, real estate and service and maintenance with the 4PS Service API in 4PS Construct.
4PS Plant API	Support the plant department and connect your software for plant management or your plant webshops with 4PS Construct.
4PS Logistics API	View your logistical data in 4PS Construct with a link to your logistical software.
4PS App API	In this API you can find general tables from 4PS Construct about, for example, user settings and application info.



# 4PS API

## Tailored to your company

The options to link 4PS Construct to external systems with 4PS API are endless. So, do you want to link external software to 4PS Construct? Our account managers will be glad to tell you more and explore the possibilities of linking all of your systems as efficiently, quickly and safely as possible!







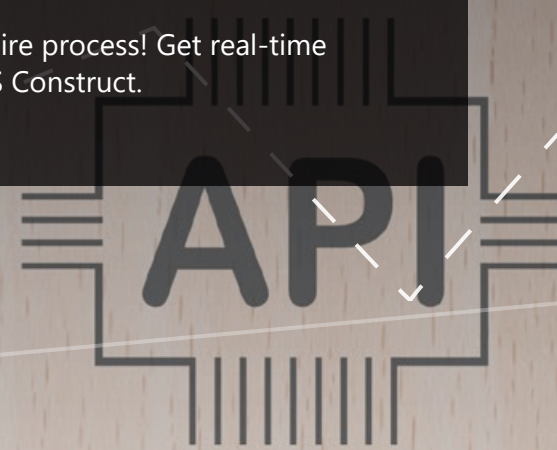


## About 4PS

Our mission? To improve the building, installation and civil engineering sector worldwide with innovative business software. We continuously focus on new developments, building on the future-proof Microsoft Dynamics 365 Business Central platform. We anticipate developments across the entire construction industry, creating smart and practical applications.

Our ERP system 4PS Construct supports your operational processes during the preparation, implementation and follow-up of your projects. This complete solution includes project management, contract management, calculation, Service & Maintenance and financial administration, planning and plant management in one software package.

The result: better insight into the entire process! Get real-time control over your processes with 4PS Construct.



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