

# Unlock your OutSystems data

Hubway Connect allows non-developer users to create, configure and manage data connections (APIs) to quickly and easily access data held in your OutSystems applications. It's the no-code way to get more value from your data.



# What problems does it solve?

The OutSystems (OS) development platform makes it easy to create and modify applications. However, getting data from OutSystems applications is not so simple. Whenever you need to get access to data in your applications, you need to do it manually by creating APIs.

**Custom-built APIs in an enterprise ecosystem can be expensive, time-consuming, complex and hard to govern:**



Building and maintaining APIs require time, resources and significant coordination



Aligning technologies to build a trustworthy and standardised API architecture is a challenge in any IT landscape



Managing data access in a decentralised API portfolio without proper tools can lead to unauthorised access or a lack of transparency



# How Does Hubway Connect work?

Hubway Connect is a central interface to build and manage APIs.



## Simple to connect to other applications

Industry-standard technologies, such as RESTful APIs and the OData protocol, are supported by the most popular analytics tools. The entry barrier and the adoption challenges in any enterprise landscape are significantly reduced by using this protocol.



## Seamless integration with OutSystems

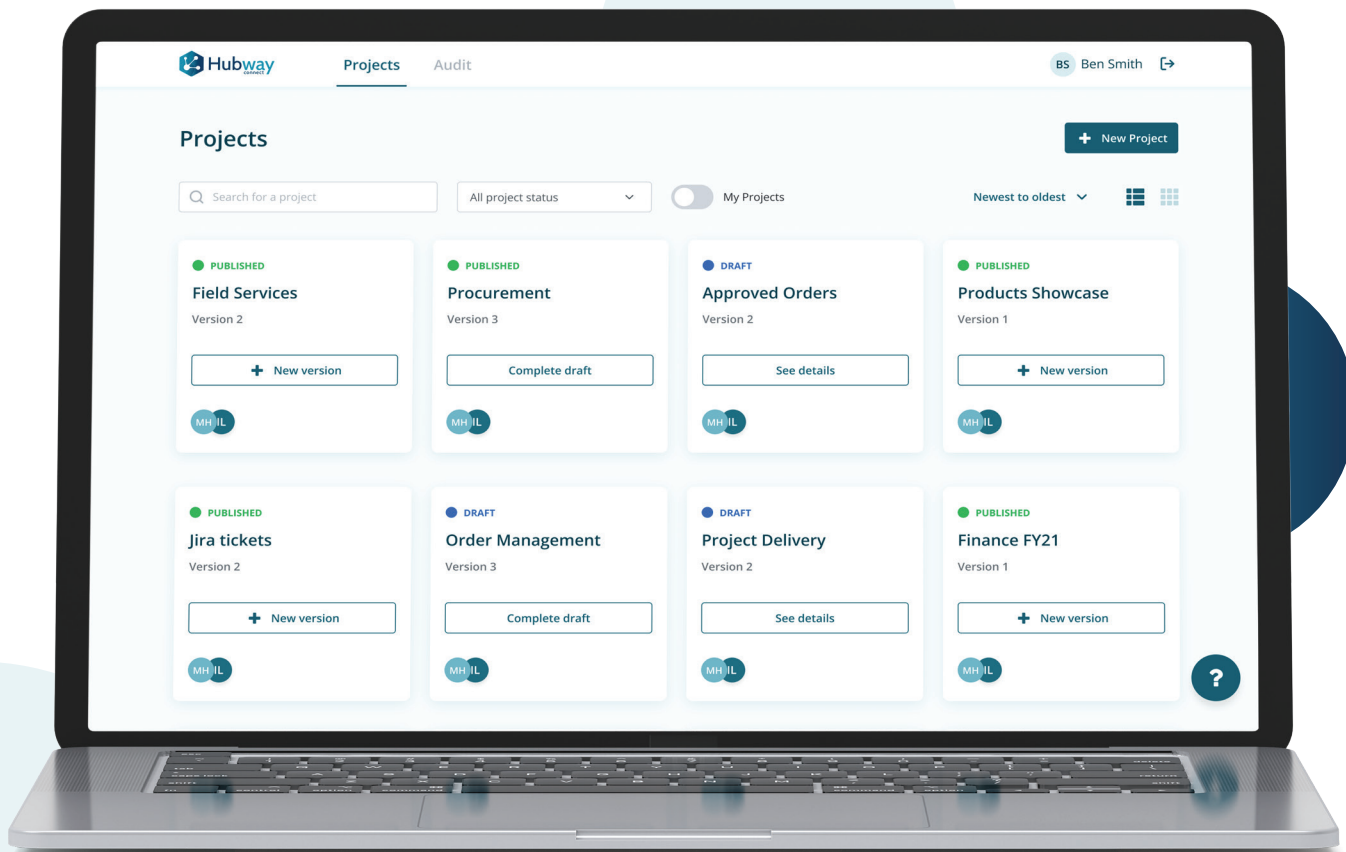
Built to work with OutSystems' data layer and metadata, designed to work on the cloud and up to date with any OutSystems version



## Built-in security

Robust security features allow customers to design APIs according to their established policies and security guidelines.

When it comes to using Hubway Connect, the interface is split into 2 main sections: Builder and Audit. The Builder is where product owners, platform admins and business users can select and manage the entities/tables in the database to be exposed through APIs. The Audit section allows admins to monitor and track users' actions and permissions.



# Better business insights in only 3 quick steps

Hubway Connect has an intuitive interface that allows business and IT users to collaborate when it comes to authoring APIs and managing access to data.



## Create a Project:

Define auditing levels and security settings. On a visual diagram, select the database entities/tables from any OutSystems app currently running in your environment.



## Deploy the API:

Test the API endpoint in the test environment and push the settings to the production environment in one click. You can use tools like Postman to explore the powerful OData query options.

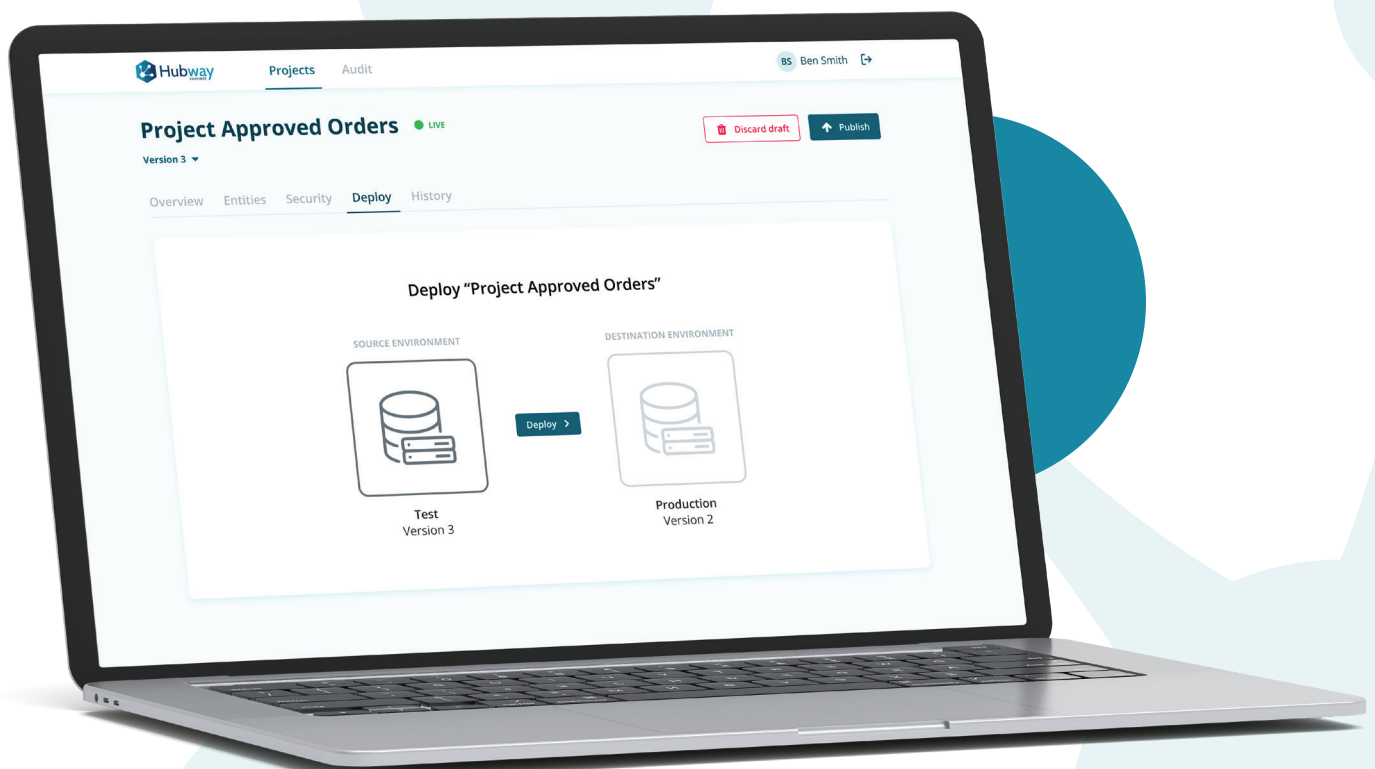


## Connect and visualize:

Connect your preferred data visualisation tool (Power BI or Tableau) to the API URL using an OData feed connector, and you're done! The API endpoint can also be used to feed API gateways or client apps.

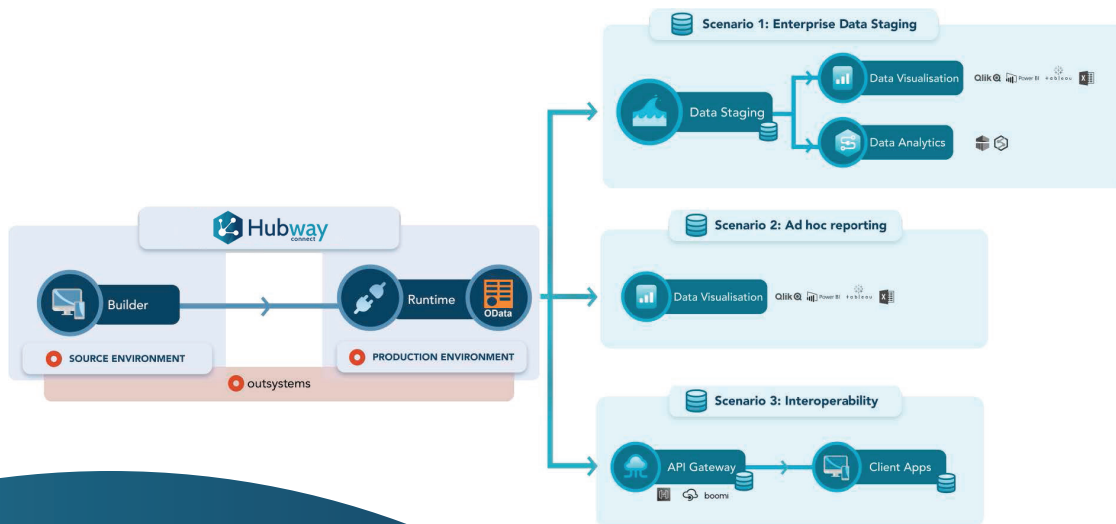
## Keep your APIs updated:

Easily and safely update and extend your APIs entities and parameters using the version control capabilities.



## When to use Hubway Connect?

Hubway Connect contains 2 main components. The Builder is a Web App where product owners, platform admins and business users select and manage the entities or tables in the database they want to expose through APIs. The Runtime is the engine that hosts the APIs and ensures security, reliability and high performance.



## Scenario 1 Enterprise Data Staging

ETL, data warehouse or data lake tools, such as Snowflake, AWS Glue, and Azure Data Factory, enable powerful data staging architecture to support high volume data analysis. These platforms can connect to Hubway Connect APIs and synchronise and compile data for dashboarding, reporting and data analytics.

## Scenario 2 Ad hoc reporting

Data visualisation tools, such as PowerBI, Excel and Tableau, can directly connect to OData feeds provided by Hubway Connect APIs.

## Scenario 3 Interoperability

Platforms like Mulesoft, Dell Boomi, MS ApiM or AWS API Gateway are solutions to integrate multiple systems. Hubway Connect can be used to connect these external solutions to OutSystems apps for data exchange.

# Main Benefits



## Deliver with agility

Speed up the delivery of valuable data to the business and reduce IT development backlog.



## Reduce development costs

No more development costs creating APIs. The process is so simple that a non-technical user can implement APIs in minutes.



## Improve data governance

Eliminate the complexity of managing access and the risk of accidentally giving non-authorised users access to sensitive data.



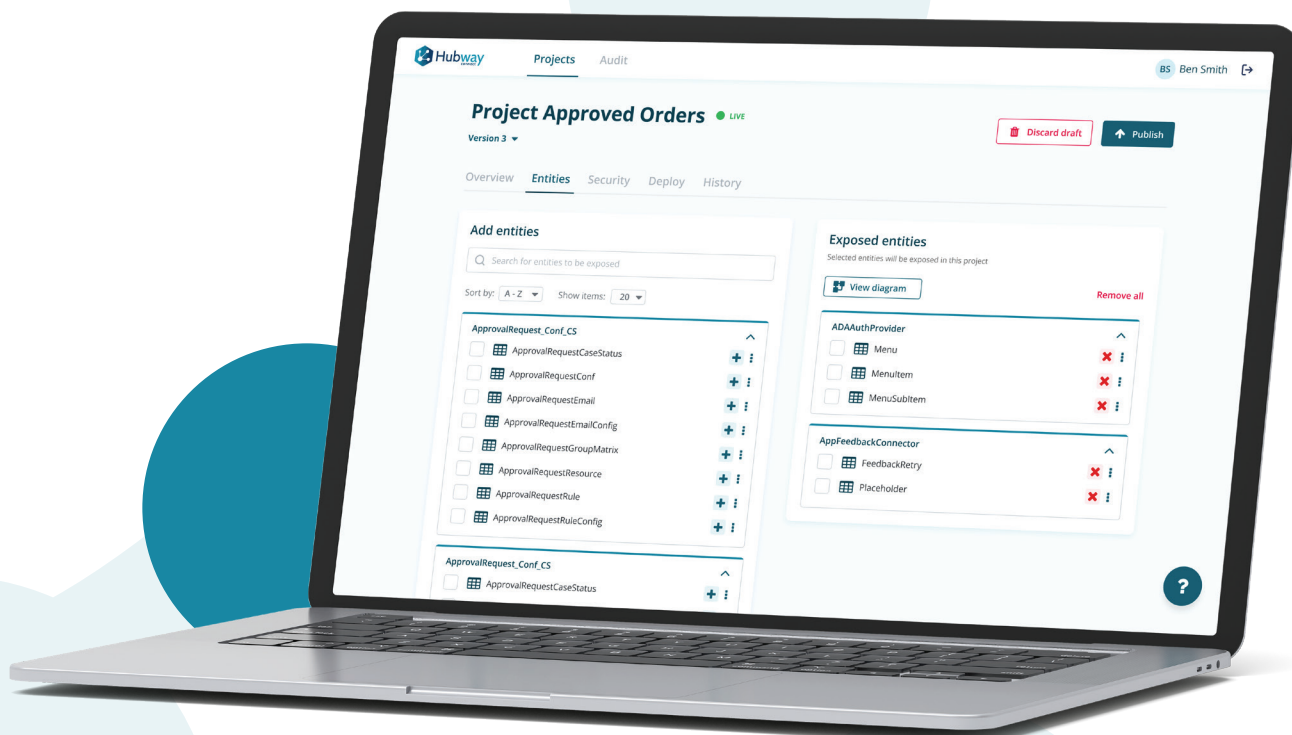
## Leverage analytics tools

Make better and faster business decisions by using corporate analytics tools to access real-time data insights.



## Increase OutSystems value

Maximise the value of your OS Apps by leveraging the full power of the OutSystems platform and its out-of-the-box database capabilities.



# Main Features



## Centralised APIs Management



Get a centralised and standardised view of all your APIs portfolio in one dashboard - view author, status and last updated version



Quickly explore, discover and visualise your data projects within your portfolio



Create, change and test your projects in a non-production environment and only deploy to production when ready



With complete control over API versions, work on new versions in parallel without disrupting previous versions and discontinue old versions when you need



## Easily choose the data to be exposed



Pick the data entities from multiples apps in a single place with a smart search



Visualise tables and relationships in a visual diagram



Hide or show attributes in the entities with a flexible configuration



Leverage database information automatically retrieved from the OutSystems metadata; no additional settings are needed



## Main Features



### Comprehensive governance & compliance



Flexible access control by user groups with read-only and write permissions in the same API



Select the level of audit control for each project



Multiple end-user authentication mechanisms with industry-standard identity providers, like Google and MS Azure



Auditing reports to track changes in the APIs' settings



### OutSystems Enterprise API Gateway



Standardise how you expose real-time data through highly performant RESTful APIs



Leverage the flexibility of the OData protocol for fully-featured data retrieval strategies



Protect your data through robust authentication and authorisation controls



# Case Study

## Use case 1: Reports that were backlogged for months were delivered in less than a week

An App was live for almost a year and the company was manually generating reports for result analysis. The product owner was creating file extracts from the OutSystems database and processing the reports manually through Excel. An approach with a single point of failure (that could fail or get sick, travel, be busy etc), that was prone to errors and delayed the process.

Hubway Connect quickly created APIs that provide real-time information to their enterprise data visualisation tools, allowing the business management to refresh their own reports autonomously, replacing the manual and unstable task of generating and processing reports manually. The new reporting solution using data via the APIs generated by Hubway Connect was ready and deployed to production in a matter of days.

*I was dedicating a lot of my time to generating spreadsheet files for the business area. I could handle it because it was a single application. However, we were about to go live with a much more complex app that would require more effort to keep delivering data to the business in a timely manner.*

*- Product Owner*



**Get in touch and  
let's talk about  
how this solution  
addresses your  
specific challenges.**

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