

## Overview

We are often asked if there is an API for getting data to and from OPX. OPX API creates an on-demand restful web service to provide “*create, query and update*” functionality on any table within the OPX environment.

## Authentication

OPX API uses the OPX authentication microservice – a token-based authentication mechanism that works with your chosen OPX authentication mechanism to decide if you have access to the API service.

## Authorisation

OPX API uses the OPX object authorisation microservice to decide if you have one of the roles allowed to execute your required service, allowing fine grain access to the restful APIs .

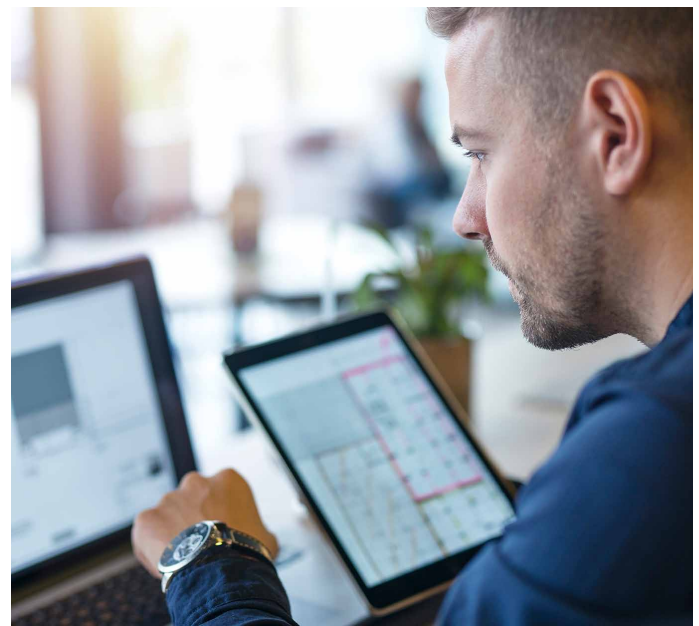
## Why do I need it?

In environments where superusers can create tables as they see fit, the ability to also have restful APIs for interfaces with new or existing systems is a benefit. Our general *no code required* ethos has been used to ensure that superusers do not need to know the intricacies of how web services work to provide these to their teams.

OPX API is not a code generator. It is a dynamic agent, using meta-data defined by superusers to define the tables<sup>1</sup>, providing the interface for functions, roles and permissions and field names. OPX API can also be used to generate APIs on demand for any other SQL Server based tables or views across tables if using Webform2<sup>2</sup>.

## Restful APIs

OPX API provides a restful API and includes a self-discovery API that describes the API’s availability.



<sup>1</sup>OPX control tables should not be updated through any API without guidance

<sup>2</sup> Webform2 handles web forms with views/Lears rather than just single tables