



# **Cboe Europe**

## **API Testing Using Postman**

VERSION 1.1

31 May 2019

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# 1 Introduction

## 1.1 Overview

It is sometimes useful to manually test the Cboe Secure Web APIs. Postman is a free tool that allows Participants to do so easily. Postman is a Chrome app that can be downloaded at <https://www.getpostman.com/>.

## 1.2 Requirements

You must be able to use the Cboe Secure Web API in certification. General details on how to access this are available in the Specification Document.

## 2 Documentation

### 2.1 Collections

Postman works with *collections*. Collections are groups of API calls related to each other. For instance, when building your API collections with Postman, you might want to have a collection for the 'MiFIDII Identifiers Management' API, one for the 'Market Maker' API, etc...

You can see all your collections on the left panel in the app.

### 2.2 Import/Export Collections

Cboe provides sample Postman collections that can be used by Participants to test APIs on the Cboe certification environment.

First, download the Cboe API collections. Then, click on the settings icon at the top of the screen, choose 'Settings', open the 'Data' tab and click the 'Choose Files' button. Select the file you just downloaded, and all the Cboe API collections and environments will be imported.

### 2.3 Environments

When testing the Cboe APIs, it is common to want to run the same API call against different markets (eg BXE, CXE, DXE, TRF).

Postman makes this very easy: You can register as many environments as you want by clicking the 'manage environments' option at the top right of the window (see Figure 1).

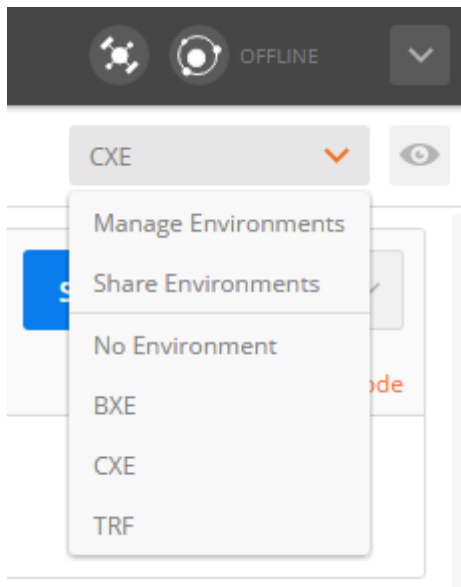


Figure 1: Registering environments

Environments have a *Key* (the name they are referenced by in an url) and a *Value* (what the key is replaced with in the url).

Figure 2 shows an example configuration for referencing the CXE market.

Once your environments are defined, you can reference them by key (*mkt* in our example) in your url (see Figure 3).

As a result, switching between the two environments updates the url, and you get different responses.

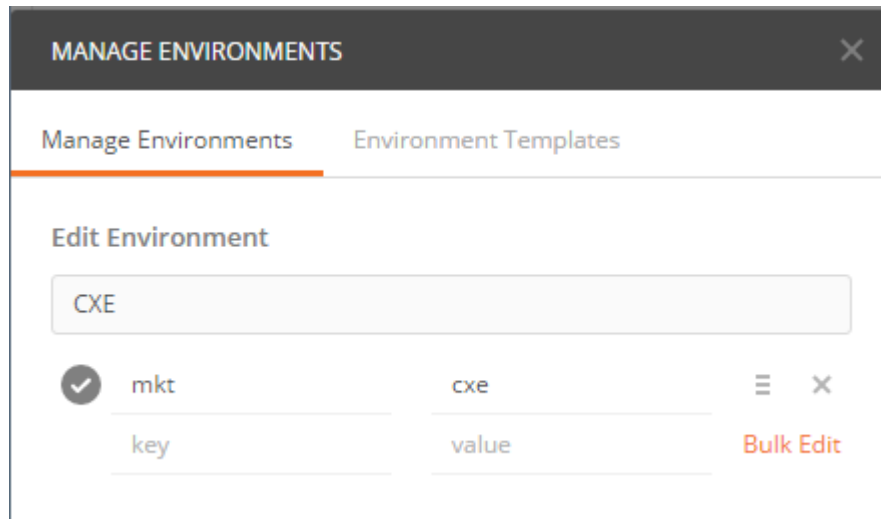


Figure 2: Managing environments

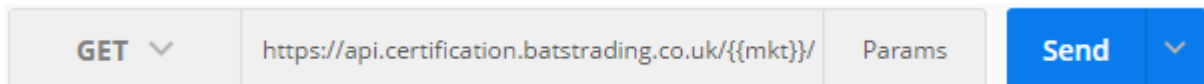


Figure 3: Using environments in an url

## 2.4 Authentication

All the Cboe APIs require authentication.

It is very easy to authenticate API calls using Postman: click on the 'Authorization' tab, choose Basic Auth, enter your API key and password, and click 'Update request'. This will add a new authentication header (you can see it in the Headers tab).

Click 'Save helper data to request' to have your credentials saved so that you don't need to enter them again for the same request (see Figure 4).

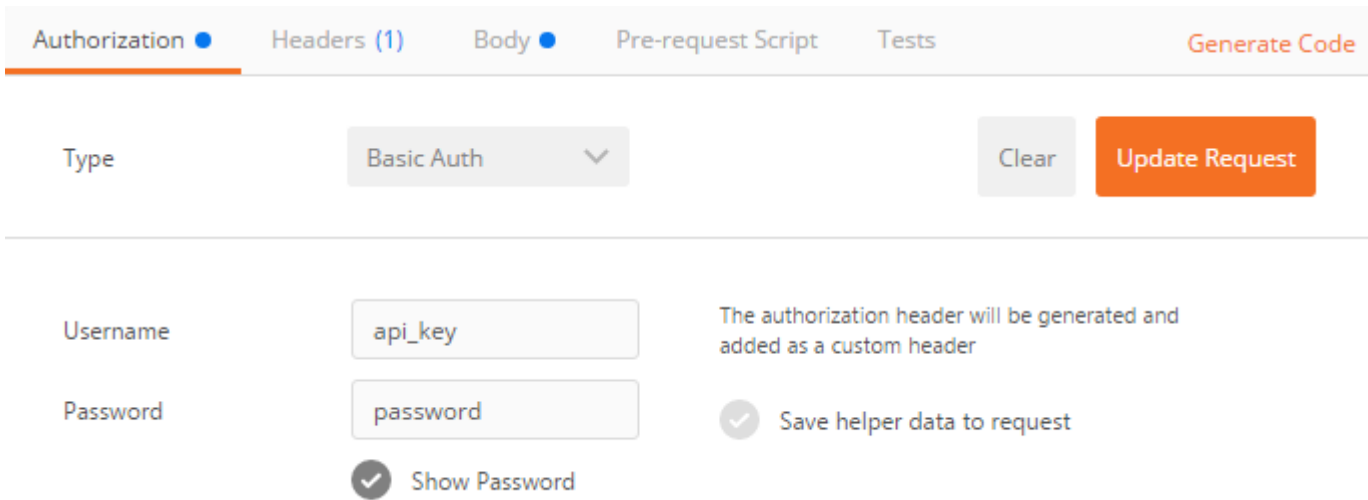


Figure 4: Authentication

### 3 Support

Please email questions or comments regarding this specification to [tradedeskeurope@cboe.com](mailto:tradedeskeurope@cboe.com).

### 4 Revision History

Version	Date	Description
1.1	31/05/2019	Added DXE environment
1.0	14/03/2016	Initial Version