

# Kraken API

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Kraken WebSocket v2 and REST client — public market-data plus authenticated account, order and balance streams.

## Overview

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WebSockets API offers real-time market data updates. WebSockets is a bidirectional protocol offering fastest real-time data, helping you build real-time applications. The public message types presented below do not require authentication. Private-data messages can be subscribed on a separate authenticated endpoint.

## At a glance

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### COMPONENT CLASS

TsgcWSAPI\_Kraken

### STANDARDS / SPEC

Kraken WebSocket v2 API

### TRANSPORTS

TCP, TLS

### PLATFORMS

Windows, macOS, Linux, iOS, Android

### FRAMEWORKS

VCL, FireMonkey, Lazarus / FPC, .NET

### EDITION

Standard / Professional / Enterprise

## Features

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- Native Delphi implementation with full ANSI/Unicode support.

# Technical specification

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Standards & specs	<a href="#">Kraken WebSocket v2 API</a> · <a href="#">Kraken REST API</a>
Component class	<code>TsgcWSAPI_Kraken</code> (unit <code>sgcWebSocket_API_Kraken</code> )
Frameworks	VCL, FireMonkey, Lazarus / FPC, .NET
Platforms	Windows, macOS, Linux, iOS, Android

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## Main properties

The principal published / public properties used to configure and drive the component. Consult the online help for the full list.

<code>Client</code>	Published or public property used to configure or query the component.
<code>OnKrakenSubscribed</code>	Published or public property used to configure or query the component.
<code>OnKrakenUnSubscribed</code>	Published or public property used to configure or query the component.
<code>OnConnect</code>	Published or public property used to configure or query the component.
<code>OnKrakenConnect</code>	Published or public property used to configure or query the component.
<code>OnKrakenSystemStatus</code>	Published or public property used to configure or query the component.
<code>OnKrakenSubscriptionError</code>	Published or public property used to configure or query the component.
<code>OnKrakenData</code>	Published or public property used to configure or query the component.
<code>OnDisconnect</code>	Published or public property used to configure or query the component.

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**OnKrakenHTTPException**Published or public property used to configure or query the component.

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## Main methods

The principal public methods exposed by the component.

**SubscribeTrade()**Public procedure exposed by the component.

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**UnSubscribeTrade()**Public procedure exposed by the component.

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**SubscribeOwnTrades()**Public procedure exposed by the component.

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**UnSubscribeOwnTrades()**Public procedure exposed by the component.

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**SubscribeOpenOrders()**Public procedure exposed by the component.

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**UnSubscribeOpenOrders()**Public procedure exposed by the component.

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**SubscribeTicker()**Public procedure exposed by the component.

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**UnSubscribeTicker()**Public procedure exposed by the component.

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**SubscribeOHLC()**Public procedure exposed by the component.

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**UnSubscribeOHLC()**Public procedure exposed by the component.

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## Quick Start

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Drop the component on a form, configure the properties below and activate it. The snippet that follows shows the typical **API Kraken REST Private — Authentication** configuration sourced from the online help.

**About this scenario.** REST Private API requires an API Key and API Secret, these values are provided by Kraken in your account.

### Delphi (VCL / FireMonkey)

```
Kraken.ApiKey := 'api key';  
Kraken.ApiSecret := 'api secret';
```

### C++ Builder

```
Kraken→ApiKey = "api key";  
Kraken→ApiSecret = "api secret";
```

### .NET (C#)

```
Kraken.ApiKey = "api key";  
Kraken.ApiSecret = "api secret";
```

## Common scenarios

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The following scenarios are lifted verbatim from the online help. Each shows the configuration and method calls needed to drive the component through a specific real-world flow.

### 1 · API Kraken WebSockets Private — Authentication

The API client must request an authentication "token" via the following REST API endpoint "GetWebSocketsToken" to connect to WebSockets Private endpoints. The token should be used within 15 minutes of creation. The token does not expire once a connection to a WebSockets API private message (openOrders or ownTrades) is maintained.

```
Delphi (VCL / FireMonkey)
```

```
Kraken.ApiKey := 'api key';  
Kraken.ApiSecret := 'api secret';
```

```
C++ Builder
```

```
Kraken->ApiKey = "api key";  
Kraken->ApiSecret = "api secret";
```

```
.NET (C#)
```

```
Kraken.ApiKey = "api key";  
Kraken.ApiSecret = "api secret";
```

### 2 · API Kraken WebSockets Public — Methods

Client can ping server to determine whether connection is alive, server responds with pong.

```
Delphi (VCL / FireMonkey)
```

```
SubscribeTicker(['XBT/USD']);
```

```
C++ Builder
```

```
SubscribeTicker(["XBT/USD"]);
```

```
.NET (C#)
```

### 3 · API Kraken REST Public — Methods

This method is to aid in approximating the skew time between the server and client. Returns Time in Unix format.

```
Delphi (VCL / FireMonkey)
```

```
Kraken.REST_API.GetAssetPairs(['XBTUSD']);
```

```
C++ Builder
```

```
Kraken→REST_API→GetAssetPairs(ARRAYOFCONST((L"XBTUSD")));
```

```
.NET (C#)
```

```
Kraken.REST_API.GetAssetPairs("XBTUSD");
```

### 4 · API Kraken WebSockets Private — Methods

Get a list of own trades, on first subscription, you get a list of latest 50 trades

```
Delphi (VCL / FireMonkey)
```

```
SubscribeOwnTrades();
```

```
C++ Builder
```

```
SubscribeOwnTrades();
```

```
.NET (C#)
```

```
SubscribeOwnTrades();
```

## 5 · API Kraken REST Private — Methods

Returns your account balance.

Delphi (VCL / FireMonkey)

```
Kraken.REST_API.GetAccountBalance();
```

C++ Builder

```
Kraken→REST_API→GetAccountBalance();
```

.NET (C#)

```
Kraken.REST_API.GetAccountBalance();
```

## Sources used to build this document

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Every external claim links back to a primary source. The online-help references decode the canonical deep-link the company maintains for this component.

Primary standard / spec — Kraken WebSocket v2 API [docs.kraken.com/api/docs/websocket-v2/add\\_order/](https://docs.kraken.com/api/docs/websocket-v2/add_order/)

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Primary standard / spec — Kraken REST API [docs.kraken.com/api/docs/rest-api/get-server-time](https://docs.kraken.com/api/docs/rest-api/get-server-time)

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Online help — component page [www.esegece.com/help/sgcWebSockets/Components/APIs/API/API\\_Kraken.htm](http://www.esegece.com/help/sgcWebSockets/Components/APIs/API/API_Kraken.htm)

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Delphi demo project (in the sgcWebSockets package) `Demos\05.Crypto\08.Kraken`

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.NET demo project (in the sgcWebSockets package) `.net\demos\05.Crypto\08.Kraken`

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Component page [www.esegece.com/products/websockets/apis/kraken/](http://www.esegece.com/products/websockets/apis/kraken/)

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Product page [www.esegece.com/products/websockets/](http://www.esegece.com/products/websockets/)

**Document scope.** This document covers the publicly-documented surface of the Kraken API component shipped with sgcWebSockets. For full property, method and event reference consult the online help linked above.