

# Bitmex API

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Bitmex WebSocket and REST client — public market data plus authenticated trading and position streams.

## Overview

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Bitmex is a cryptocurrency exchange and derivative trading platform.

## At a glance

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### COMPONENT CLASS

`TsgcWSAPI_Bitmex`

### STANDARDS / SPEC

**Bitmex API explorer**

### 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="#">Bitmex API explorer</a>
Component class	<code>TsgcWSAPI_Bitmex</code> (unit <code>sgcWebSocket_API_Bitmex</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>OnBitmexSubscribed</code>	Published or public property used to configure or query the component.
<code>OnBitmexUnsubscribed</code>	Published or public property used to configure or query the component.
<code>OnBitmexAuthenticated</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>OnBitmexConnect</code>	Published or public property used to configure or query the component.
<code>OnBitmexMessage</code>	Published or public property used to configure or query the component.
<code>OnBitmexError</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.
<code>OnBitmexHTTPException</code>	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.

<code>Subscribe()</code>	Public procedure exposed by the component.
<code>Unsubscribe()</code>	Public procedure exposed by the component.

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**Authenticate()**

Public procedure exposed by the component.

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**CancelAllAfter()**

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 **Bitmex | Connect WebSocket API** configuration sourced from the online help.

**About this scenario.** In order to connect to Bitmex WebSocket API, just create a new Bitmex API client and attach to TsgcWebSocketClient.

### Delphi (VCL / FireMonkey)

```
oClient := TsgcWebSocketClient.Create(nil);
oBitmex := TsgcWSAPI_Bitmex.Create(nil);
oBitmex.Client := oClient;
oClient.Active := True;
```

### C++ Builder

```
TsgcWebSocketClient oClient = new TsgcWebSocketClient();
TsgcWSAPI_Bitmex oBitmex = new TsgcWSAPI_Bitmex();
oBitmex->Client = oClient;
oClient->Active = true;
```

### .NET (C#)

```
TsgcWebSocketClient oClient = new TsgcWebSocketClient();
TsgcWSAPI_Bitmex oBitmex = new TsgcWSAPI_Bitmex();
oBitmex.Client = oClient;
oClient.Active = true;
```

## 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 · Bitmex | Subscribe WebSocket Channel

Bitmex offers a variety of channels where you can subscribe to get real-time updates of market data, orders... Find below a sample of how subscribe to a Trade Channel:

Delphi (VCL / FireMonkey)

```
oClient := TsgcWebSocketClient.Create(nil);
oBitmex := TsgcWSAPI_Bitmex.Create(nil);
oBitmex.Client := oClient;
oBitmex.Subscribe(btmTrade, 'XBTUSD');
procedure OnBitmexMessage(Sender: TObject; const aTopic: TwsBitmexTopics; const aMessage: string)
begin
    // here you will receive the trade updates
end;
```

C++ Builder

```
TsgcWebSocketClient oClient = new TsgcWebSocketClient();
TsgcWSAPI_Bitmex oBitmex = new TsgcWSAPI_Bitmex();
oBitmex->Client = oClient;
oBitmex->Subscribe(btmTrade, "XBTUSD");
void OnBitmexMessage(Sender: TObject; const aTopic: TwsBitmexTopics; const aMessage: string)
{
    // here you will receive the trade updates
}
```

.NET (C#)

```

TsgcWebSocketClient oClient = new TsgcWebSocketClient();
TsgcWSAPI_Bitmex oBitmex = new TsgcWSAPI_Bitmex();
oBitmex.Client = oClient;
oBitmex.Subscribe(btmTrade, "xbtUSD");
void OnBitmexMessage(Sender: Tobject; const aTopic: TwsBitmexTopics; const aMessage: string)
{
    // here you will receive the tradeupdates
}

```

## 2 · Bitmex | How to Place Orders

The Bitmex REST API offer public and private endpoints. The Private endpoints require that messages are signed to increase the security of transactions.

Delphi (VCL / FireMonkey)

```

// buy market order
BITMEX.REST_API.PlaceMarketOrder(bmosBuy, 'XBTUSD', 100);
// sell limit order at 45000
BITMEX.REST_API.PlaceLimitOrder(bmosSell, 'XBTUSD', 100, 45000.00);
// stop order at 48000
BITMEX.REST_API.PlaceStopOrder(bmosSell, 'XBTUSD', 100, 48000.00);

```

C++ Builder

```

// buy market order
BITMEX→REST_API→PlaceMarketOrder(bmosBuy, "XBTUSD", 100);
// sell limit order at 45000
BITMEX→REST_API→PlaceLimitOrder(bmosSell, "XBTUSD", 100, 45000.00);
// stop order at 48000
BITMEX→REST_API→PlaceStopOrder(bmosSell, "XBTUSD", 100, 48000.00);

```

.NET (C#)

```

// buy market order
BITMEX.REST_API.PlaceMarketOrder(bmosBuy, "XBTUSD", 100);
// sell limit order at 45000
BITMEX.REST_API.PlaceLimitOrder(bmosSell, "XBTUSD", 100, 45000.00);
// stop order at 48000
BITMEX.REST_API.PlaceStopOrder(bmosSell, "XBTUSD", 100, 48000.00);

```

## 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 — Bitmex API explorer

[www.bitmex.com/api/explorer/](http://www.bitmex.com/api/explorer/)

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Online help — component page

[www.esegece.com/help/sgcWebSockets/Components/APIs/API/API\\_Bitmex.htm](http://www.esegece.com/help/sgcWebSockets/Components/APIs/API/API_Bitmex.htm)

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Delphi demo project (in the sgcWebSockets package)

Demos\05.Crypto\06.Bitmex

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.NET demo project (in the sgcWebSockets package)

.net\demos\05.Crypto\06.Bitmex

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Component page

[www.esegece.com/products/websockets/apis/bitmex/](http://www.esegece.com/products/websockets/apis/bitmex/)

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Product page

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

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