

Conio

platform [iOS](#)

platform [Android](#)

spm [compatible](#)

artifactory [v0.5.0](#)

Conio SDK provides a set of Android and iOS native APIs for Conio services to let you create native applications with Crypto Wallets and Crypto Trading functionalities.

Overview

- Installation
 - [iOS](#)
 - [Android](#)
- Configuration
 - [iOS](#)
 - [Android](#)
- Features
 - [User Service](#)
 - [Trading Info Service](#)
 - [Wallet Service](#)
 - [BTC Transaction Management Service](#)
 - [Trading Buy Service](#)
 - [Trading Sell Service](#)
 - [Trading Price Service](#)
 - [Swap Service](#)
 - [Transfer Service](#)
 - [Activities Service](#)

Old

Old [docs](#)

Changelog

- iOS
- Android

iOS

2.1.3 - 29-11-2024

Changed

- Replaced `SignupParams.LegalAcceptance` and `LegalAcceptancesParams.LegalAcceptance` models with unified `LegalAcceptance` model
- Replaced `SignupParams.LegalAcceptanceType` and `LegalAcceptancesParams.LegalAcceptanceType` models with unified `LegalAcceptanceType` model

Fixed

- Added missing `LegalAcceptancesResult.Acceptance.type`

2.1.2 - 22-10-2024

Changed

- Update ConioSDK

2.1.1 - 04-10-2024

Changed

- Update Fetch Historical Prices

iOS Installation

Prerequisites

- iOS 13+
- Swift 5.9

Swift Package Manger

Via Xcode

1. In Xcode, install Conio B2B SDK by navigating to *File > Add Packages*
2. In the prompt that appears, insert the repository:

```
git@bitbucket.org:squadrone/conio-sdk-b2b-ios.git
```

or

```
https://bitbucket.org/squadrone/conio-sdk-b2b-ios.git
```

Via `Package.swift`

Simply add the following lines to `dependencies` of your `Package.swift` manifest:

```
dependencies: [  
    .package(url: "git@bitbucket.org:squadrone/conio-sdk-b2b-ios.git")  
    // ...  
],
```

Note: in order to correctly fetch package you will need to have access to project repository.

Troubleshooting

If you get the following error:

```
autoreconf: failed to run aclocal: No such file or directory
```

Android Installation

Prerequisites

- Min Android SDK: 23 (Android 6.0 “Marshmallow”)

Installation

The Conio Android SDK is located in a private Maven repository on *JBfrog Artifactory*, so it is necessary to configure the authentication as follow.

- Add the Artifactory credentials provided by Conio to your global `gradle.properties`

```
artifactory_user=<username provided by Conio>
artifactory_password=<password provided by Conio>
```

- Add the Conio Artifactory repository to your `build.gradle`

```
repositories {
    // ...
    maven {
        url "https://artifactory.conio.com/artifactory/gradle-release-local"
        credentials(PasswordCredentials) {
            username "${artifactory_user}"
            password "${artifactory_password}"
        }
    }
}
```

- Add the Conio SDK dependency

```
dependencies {
    // ...
    implementation 'com.conio:sdm-b2b:[VERSION]'
}
```


iOS Configuration

`ConioB2BSDK` is divided into multiple services, each one providing a different set of APIs.

Each service is independent and can be initialized through a `ServiceConfiguration` configuration using its own factory.

```
let conioConfig = ConioConfiguration.makeTestConfiguration(baseUrl: ...)
let userService =
    UserServiceFactory().makeServiceUsingConfiguration(conioConfig)

// User Service ready to be used
userService
    .login(with: ...)
    .asPublisher()
    .sink { ... }
// ...
```

Otherwise, `ConioB2BServiceFactory` factory leverages on a single `ServiceFactory` to make the requested `Service`.

```
let conioConfig = ConioConfiguration.makeTestConfiguration(baseUrl: ...)
let userService =
    ConioB2BServiceFactory.makeServiceUsingFactory(UserServiceFactory(),
        serviceConfiguration: conioConfig)
let walletService =
    ConioB2BServiceFactory.makeServiceUsingFactory(WalletServiceFactory(),
        serviceConfiguration: conioConfig)
let activitiesService =
    ConioB2BServiceFactory.makeServiceUsingFactory(ActivitiesServiceFactory(),
        serviceConfiguration: conioConfig)
// ...
```

Usage

The single `Service` API is initialized with its specific `Params` parameters (if necessary) and the output can be read through its `OperationResult` result.

```
// ...
let params = LoginParams
    .make(
        username: ...,
        password: ...,
        cryptoRequest: ...
    )

userService
    .login(with: params)
```

Android Configuration

To use the Conio SDK, you need to create an instance of the `Conio` class, providing an Android `Context` and a `ConioConfiguration`.

The `ConioConfiguration` allow you to specify the execution environment of the Conio SDK (e.g. test or production) and can be created with the url of the Conio Back-end and with the related Bitcoin Network.

```
val configuration = ConioConfiguration(  
    // required  
  
    baseUrl = "https://example.test.com",  
    bitcoinNetwork = BitcoinNetwork.Testnet, // or BitcoinNetwork.Mainnet for  
    production enviroment  
  
    // optional  
  
    // http headers added to each request, usefull for debug purpose  
    headers = mapOf("header_key" to "header_value"),  
)  
  
val conio = Conio(configuration, context)
```

User Service

The `UserService` contains all the APIs used to manage a Conio user. It provides methods to manage a Conio user.

APIs

Login

- [User Login](#)

Signup

- [User Signup](#)

Logout

- [User Logout](#)

Fetch Legal Acceptances

- [Fetch Legal Acceptances](#)

Fetch User Permissions

- [Fetch Permissions](#)

Accept New Legal Acceptances

- [Accept New Legal Acceptances](#)

Trading Info Service

The `TradingInfoService` contains all the APIs used to manage a Conio user trading profile and information.

APIs

Fetch Trading Fees

- [Fetch Trading Fees](#)

Fetch Trading Summary

- [Fetch Trading Summary](#)

Fetch Trading Limits

- [Fetch Trading Limits](#)

Fetch Trading Report

- [Fetch Trading Report](#)

Wallet Service

The `WalletService` contains all the APIs that provides information about the user Wallets, such balance and mnemonic.

APIs

Balance

- [Fetch Balances](#)

Mnemonic

- [Fetch Mnemonic](#)

BTC Transaction Management Service

The `BtcTransactionManagementService` contains all the APIs responsible for managing Bitcoin transactions, including sending bitcoin, receiving bitcoin and speeding up transactions.

APIs

Receive

- [Fetch Address](#)

Send

- [Send Bitcoin](#)

Speed Up

- [Speed Up Transaction](#)

Transaction Available Fees

- [Fetch Transaction Available Fees](#)

Speed Up Transaction Available Fees

- [Fetch Speed Up Available Fees](#)

Trading Buy Service

The `TradingBuyService` contains all the APIs designed to facilitate the purchase of cryptocurrencies through trading operations. It provides methods for creating, updating, fetching and finalizing bid quotations.

APIs

Create New Bid

- [Create Bid](#)

Update Existing Bid

- [Update Bid](#)

Fetch Existing Bid

- [Fetch Bid](#)

Buy Cryptocurrency

- [Buy](#)

Trading Sell Service

The `TradingSellService` contains all the APIs designed to facilitate the sale of cryptocurrencies through trading operations. It provides methods for creating, updating, fetching and finalizing ask quotations.

APIs

Create New Ask

- [Create Ask](#)

Update Existing Ask

- [Update Ask](#)

Fetch Existing Ask

- [Fetch Ask](#)

Sell Cryptocurrency

- [Sell](#)

Trading Price Service

The `TradingPriceService` contains all the APIs that provides cryptocurrencies trading price information. It provides methods for fetching current or historical crypto prices and tradable metadata, including cryptocurrency ids.

APIs

Fetch Current Cryptocurrency Price

- [Fetch Price](#)

Fetch Historical Cryptocurrency Price

- [Fetch Historical Prices](#)

Fetch All Current Cryptocurrencies Prices

- [Fetch All Prices](#)

Fetch Tradable Cryptocurrencies Metadata

- [Fetch Tradable Crypto Metadata](#)

Swap Service

The `SwapService` contains all the APIs designed to facilitate the cryptocurrency swap functionality. It provides methods for creating, updating, fetching and finalizing swap quotations between cryptos.

APIs

Create New Swap

- [Create Swap](#)

Update Existing Swap

- [Update Swap](#)

Fetch Existing Swap

- [Fetch Swap](#)

Swap Cryptocurrency

- [Swap](#)

Transfer Service

The `TransferService` contains all the APIs designed to facilitate the cryptocurrency amount transferring from an On-Chain Wallet to an Off-Chain Wallet of the same cryptocurrency and viceversa. It provides methods for creating, updating, fetching and finalizing transfer cryptocurrency between On-Chain and Off-Chain Wallet.

APIs

Create New Transfer

- [Create Transfer](#)

Update Existing Transfer

- [Update Transfer](#)

Fetch Existing Transfer

- [Fetch Transfer](#)

Transfer Cryptocurrency Amount

- [Transfer](#)

Activities Service

The `ActivitiesService` contains all the API that provides information about wallets transactions.

APIs

Activities

- [Fetch Activities](#)

Single Activity

- [Fetch Activity](#)