Go+ Security API

Introduction

Welcome to Go+ Security API document.

Go+ Security Engine is the leading blockchain security server and platform. As a mean to provide easy access to security data, we've developed the Go+ Security API.

The token security API is currently available.

Please use what you need.

> **Source attribution** via a backlink or a mention that your app is **"Powered by GO+ Security"** is required except for personal/private usage.

GoPlus Security API

Provide you with fast, reliable and convenient security services

GOPlus Security API has four key points：

1.Token Security

Have Covered EVM chains, detecting 364k+ tokens and finding 183k+ risky tokens.The main components：Contract Security, Trading Security, Info Security.

2.Real-Time Risk Warning

Real-time monitoring of on-chain data, first warning.The main components：AdminKeyChange, FlashLoan, Price Slippage.

3.dApp Contract Security

Cover hundreds of major dAPPs and identify dApp contract risks.The main components：Contracts Own Vulnerability, FlashLoan Risk, Compatibility Issue, Project Side Security.

4.Interaction Security

20K+ phishing sites included.The main components：Phishing Site, Approval Contract, NFT Authenticity, Black Address Library.The token security API is currently available. Stay tuned for more content.

Reference

Quick Start

Good to know: A quick start guide can be good to help folks get up and running with your API in a few steps.

Get SDK for Quick Start

GoPlus SDK for Quick Start

Get Supported Blockchains

Get Supported Blockchains

Token Security API

Token Security API Response Detail

Malicious Address API

Malicious Address API Response Detail

NFT Security API

NFT Security API

Approval Security API

Approval Security API v1

Approval Management API (Approval Security API v2)

Signature Data Decode API

Signature Data Decode API

dApp Security Info API

dApp Security Info API

Phishing Site Detection API

Phishing Site Detection API

GoPlus SDK for Quick Start

The easiest way to connect your dApp to the blockchain security data and get the power of GoPlus's security infrastructure. Just download, write a few lines of code, and go.

Get GoPlus SDK?

GoPlus SDK currently supports Go and Node.js.

GoPlus SDK for Go

GitHub - GoPlusSecurity/goplus-sdk-go
GitHub

GoPlus SDK for Node.js

GitHub - GoPlusSecurity/goplus-sdk-js
GitHub

What is GoPlus SDK?

GoPlus SDK is one of the most data-rich and risk-detectable security service SDKs available.

GoPlus SDK integrates the following APIs.

API	Description	Location
Token Security API	Detect token security and identify token risks.	https://docs.gopluslabs.io/reference/token-security-api-response-detail
NFT Security API	Detect NFT security and identify NFT risks.	https://docs.gopluslabs.io/reference/nft-security-api
Malicious Address API	Check the address for malicious behavior.	https://docs.gopluslabs.io/reference/malicious-address-api-response-detail
Approval Security API v1	Approval Security API v1 mainly supports inputting approved contracts and detects the security of approved contracts.	https://docs.gopluslabs.io/reference/approval-security-api-v1
Approval Management API (Approval Security API v2)	Approval Management API (Approval Security API v2) mainly supports inputting a EOA, viewing the contracts approved by the address and the information of the approved contracts (basic information and risk detection).	https://docs.gopluslabs.io/reference/approval-management-api approval-security-api-v2
Signature Data Decode API	Decode transaction input data and detect it for security.	https://docs.gopluslabs.io/reference/signature-data-decode-api
dApp Security Info API	Detect whether the dApps' main contracts are open source or have malicious behaviors, and check whether the dApps are audited	https://docs.gopluslabs.io/reference/dapp-security-info-api
Phishing Site Detection API	Detect whether a website is a phishing website.	https://docs.gopluslabs.io/reference/phishing-site-detection-api

Get Supported Blockchains

URL: https://api.gopluslabs.io/api/v1/supported_chains?name=

Method：GET

Parameters:

Parameters	Required	Description
name	False	API name.

API Name	Description
token_security	Token Security API
address_security	Malicious Address API
approval_security	Approval Security API v1
token_approval_security	Approval Security API v2: Token Approval Security API
nft721_approval_security	Approval Security API v2: ERC721 NFT Approval Security API
nft1155_approval_security	Approval Security API v2: ERC1155 NFT Approval Security API
input_decode	Signature Data Decode API
nft_security	NFT Security API

Response:

Parameter	Description
code	`1` means success
message	`OK` for success, `Error message` for failure
result	supported blockchain list, in which `id` is the path for token security information API. "1" means Ethereum; "10" means Optimism; “25” means Cronos; "56" means BSC; “66” means OKC; "100" means Gnosis; "128" means HECO; "137" means Polygon; "250" means Fantom; "321" means KCC; "324" means zkSync Era; "10001" means ETHW; "201022" means FON; "42161" means Arbitrum; "43114" means Avalanche; "59140" means Linea; "1666600000" means Harmony; "tron" means Tron.

Code

Code

Token Security API Response Detail

The main components：Contract Security, Trading Security, Info Security.

GET https://api.goplusla bs.io/api/v1/token_security/{chain_id}?contract_addresses=

Parameters

No parameters

Responses

Method: GET

URL: https://api.goplusla bs.io/api/v1/token_security/{chain_id}?contract_addresses=

Parameters

Parameter	Type	Required	Description
chain_id	String	True	The `chain_id` of the blockchain. "1" means Ethereum; "10" means Optimism; “25” means Cronos; "56" means BSC; “66” means OKC; "100" means Gnosis; "128" means HECO; "137" means Polygon; "250" means Fantom; "321" means KCC; "324" means zkSync Era "10001" means ETHW; "201022" means FON; "42161" means Arbitrum "43114" means Avalanche; "59140" means Linea; "1666600000" means Harmony; "tron" means Tron.
contract_addresses	String	True	The contract address of tokens.

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Access Token

Contract Security Parameters

Contract Security

Trading Security Parameters

Trading Security

Info Security Parameters

Info Security

Sample Response

sample response for `https://api.gopluslabs.io/api/v1/token_security/1?contract_addresses=0x408e41876cccdc0f92210600ef50372656052a38`:

```
{
    "code": 1,
    "message": "OK",
    "result": {
        "0x408e41876cccdc0f92210600ef50372656052a38": {
            "is_in_dex": "1",
            "is_open_source": "1",
            "is_proxy": "0",
            "is_true_token": "1",
            "buy_tax": "0",
            "can_take_back_ownership": "0",
            "cannot_sell_all": "0",
            "creator_address": "0x9b1b265e548283430e6ae4721842c448f4bed559",
            "creator_balance": "10",
            "creator_percent": "0",
            "dex": [
                {
                    "name": "SushiSwapV2",
                    "liquidity": "3086483.28535010",
                    "pair": "0x611CDe65deA90918c0078ac0400A72B0D25B9bb1"
                },
                {
                    "name": "UniswapV2",
                    "liquidity": "593110.60111547",
                    "pair": "0x8Bd1661Da98EBDd3BD080F0bE4e6d9bE8cE9858c"
                },
                {
                    "name": "UniswapV3",
                    "liquidity": "157040.68656613191017053951937757 69",
                    "pair": "0x2dd56b633faa1a5b46107d248714c9ccb6e20920"
                },
                {
                    "name": "UniswapV3",
                    "liquidity": "8593.150053",
                    "pair": "0x8dd240195b2cd7c0a118166cba02512f52e9e360"
                },
                {
                    "name": "UniswapV3",
                    "liquidity": "6463.504842668805484531793163914657",
                    "pair": "0x08eac73f000d724678281155c879c50fc6094824"
                },
                {
                    "name": "UniswapV2",
                    "liquidity": "1279.74835168",
                    "pair": "0x5e4206B6AA6e919B2bc6E813EA0ffB9B3C8aC042"
                },
                {
                    "name": "SushiSwapV2",
                    "liquidity": "433.14817365",
                    "pair": "0x07d04AaAd8108ca86e0F1c792Bf165f63A5FedDE"
                },
```

```
            {
                "name": "UniswapV2",
                "liquidity": "253.71074866",
                "pair": "0x07F068ca326a469Fc1d87d85d448990C8cBa7dF9"
            },
            {
                "name": "UniswapV2",
                "liquidity": "8.84948422",
                "pair": "0x2d0A1c45cD6f7CDb718703d0897c877EFc9dB9F7"
            }
        ],
        "holder_count": "59517",
        "holders": [
            {
                "address": "0x60ab11fe605d2a2c3cf351824816772a131f8782",
                "is_locked": 0,
                "tag": "RenVM: Darknode Staking",
                "is_contract": 1,
                "balance": "190300000",
                "percent": "0.190300"
            },
            {
                "address": "0xf977814e90da44bfa03b6295a0616a897441acec",
                "is_locked": 0,
                "tag": "Binance 8",
                "is_contract": 0,
                "balance": "109859372",
                "percent": "0.109859"
            },
            {
                "address": "0xcc12abe4ff81c9378d670de1b57f8e0dd228d77a",
                "is_locked": 0,
                "tag": "Aave: aREN Token V2",
                "is_contract": 1,
                "balance": "57368739.62122353098751391",
                "percent": "0.057369"
            },
            {
                "address": "0xbe0eb53f46cd790cd13851d5eff43d12404d33e8",
                "is_locked": 0,
                "tag": "Binance 7",
                "is_contract": 0,
                "balance": "40000000",
                "percent": "0.040000"
            },
            {
                "address": "0x8d6f396d210d385033b348bcae9e4f9ea4e045bd",
                "is_locked": 0,
                "tag": "Gemini 6",
                "is_contract": 1,
                "balance": "17390001",
                "percent": "0.017390"
            },
```

```
            {
                "address": "0x28c6c06298d514db089934071355e5743bf21d60",
                "is_locked": 0,
                "tag": "Binance 14",
                "is_contract": 0,
                "balance": "13714495.247848966044514547",
                "percent": "0.013715"
            },
            {
                "address": "0x6cc5f688a315f3dc28a7781717a9a798a59fda7b",
                "is_locked": 0,
                "tag": "OKEx",
                "is_contract": 0,
                "balance": "13632492.016596650137406256",
                "percent": "0.013632"
            },
            {
                "address": "0x30e84f627ebc336eee72cd720a837e6f75d865d5",
                "is_locked": 0,
                "tag": "",
                "is_contract": 0,
                "balance": "13205867.071569348075742885",
                "percent": "0.013206"
            },
            {
                "address": "0x2faf487a4414fe77e2327f0bf4ae2a264a776ad2",
                "is_locked": 0,
                "tag": "FTX Exchange",
                "is_contract": 0,
                "balance": "12274585.835420964580064505",
                "percent": "0.012275"
            },
            {
                "address": "0x5a52e96bacdabb82fd05763e25335261b270efcb",
                "is_locked": 0,
                "tag": "",
                "is_contract": 0,
                "balance": "10465958",
                "percent": "0.010466"
            }
        ],
        "is_anti_whale": "0",
        "is_blacklisted": "0",
        "is_honeypot": "0",
        "is_mintable": "0",
        "is_whitelisted": "0",
        "lp_holder_count": "147",
        "lp_holders": [
            {
                "address": "0xfc07f5f616193db30c70423d7d96217e2fb04682",
                "is_locked": 0,
                "tag": "",
```

```
            "is_contract": 0,
            "balance": "6273.876103504917066567",
            "percent": "0.679651"
        },
        {
            "address": "0x9793fe3ce47d7f0939353e4e731d57b9c0bb623a",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "342.343466622386403758",
            "percent": "0.037086"
        },
        {
            "address": "0x4945c4f9a72ca6b86518758499005e280834003f",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "206.72170713300080538",
            "percent": "0.022394"
        },
        {
            "address": "0x61b497e54f6da155f0e38fd79d65a7daee7a8f3d",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "189.989508753129118904",
            "percent": "0.020582"
        },
        {
            "address": "0x5e1ddd11ccfa137a7b91c103f36c88a3e43f4ab1",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "142.65139303435340837",
            "percent": "0.015453"

        },
        {
            "address": "0x8f11a1f0c189347fb0479f84e8cd8b7dfbd52c7d",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "132.646048157518308472",
            "percent": "0.014370"
        },
        {
            "address": "0x11619d7d52b35980e2a6c40e76e13cc06b6858d1",
            "is_locked": 0,
            "tag": "",
            "is_contract": 0,
            "balance": "103.737485380477846697",
            "percent": "0.011238"
        },
        {
```

```
                    "address": "0x4d8106c1dbf9a2f06133d5b51780a1bc22286a66",
                    "is_locked": 0,
                    "tag": "",
                    "is_contract": 0,
                    "balance": "93.114219207940659276",
                    "percent": "0.010087"
                },
                {
                    "address": "0x7a21881bb29f53970ca9cfdecd199789e23f5880",
                    "is_locked": 0,
                    "tag": "",
                    "is_contract": 0,
                    "balance": "92.226142658043597113",
                    "percent": "0.009991"
                },
                {
                    "address": "0x91f84b22a64c0c4b7289c087f4ac549881131183",
                    "is_locked": 0,
                    "tag": "",
                    "is_contract": 0,
                    "balance": "88.252831538508955544",
                    "percent": "0.009560"
                }
            ],
            "lp_total_supply": "9231.023517826068380023",
            "owner_address": "0x0000000000000000000000000000000000000001",
            "owner_balance": "0",
            "owner_change_balance": "0",
            "owner_percent": "0",
            "sell_tax": "0",
            "slippage_modifiable": "0",
            "total_supply": "999999632.80375",
            "transfer_pausable": "1",
            "token_name": "Republic Token",
            "token_symbol": "REN"

        }
    }
}
```


Code

Code

API License Agreement

API License Agreement

Contract Security

Method: GET

URL: https://api.gopluslabs.io/api/v1/token_security/{chain_id}?contract_addresses=

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
Open Source	is_open_source	It describes whether this contract is open source. "1" means true; "0" means false.	Un-open-sourced contracts may hide various unknown mechanisms and are extremely risky. When th contract is not open source, we will not be able to detect other risk items.
Proxy Contract	is_proxy	It describes whether this contract has a proxy contract. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Most Proxy contracts are accompanied by modifiable implementation contracts and implementation contracts may contain significant potential risk. When the contract is a Proxy, we will stop detecting other risk items
Mint Function	is_mintable	It describes whether this contract has the function to mint tokens. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there will be no return. (3) Mint function will directly trigger a massive sell-off, causing the coin price to plummet. It is extremely risky. (4) This function general relies on ownership. When the contract does not have an owner (or if the owner is a black hole address) and the owner cannot be retrieved, this function will most likely b disabled.
			(1) When

Owner Address	owner_address	It describes this contract's owner address. Example: "owner_address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5"; No return means unknown; Return empty means there is no ownership or can't find ownership.	"is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there will be no return. (3) Ownership is mostly used to adjust the parameters and status of the contract, such as minting, modification of slippage, suspension of trading, setting blacklist, etc. When the contract does not have an owner (or if the owner is a black hole address) and the owner cannot be retrieved, these functions will most likely be disabled.
Take back Ownership	can_take_back_ownership	It describes whether this contract has the function to take back ownership. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there will be no return. (3) Ownership is mostly used to adjust the parameters and status of the contract, such as minting, modification of slippage, suspension of trading, setting blacklsit, etc. When the contract does not have an owner (or if the owner is a black hole address) and the owner cannot be retrieved, these functions will most likely be disabled.
			(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there will be no return. (3) Token with this featur

Owner Can Change Balance	owner_change_balance	It describes whether the contract owner has the authority to change the balance of any token holder. "1" means true; "0" means false; No return means unknown.	means that the owner ca modify anyone's balance resulting in an asset straight to zero or a massive minting and sel off. (4) This function general relies on ownership. When the contract does not have an owner (or if the owner is a black hole address) and the owner cannot be retrieved, this function will most likely b disabled.
With hidden owner	hidden_owner	It describes whether the contract has hidden owners. For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. “1” means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there will be no return. (3) Hidden owner is ofte used by developers to hide ownership and is often accompanied by malicious functionality. When the hidden owner exists, it is assumed that ownership has not been abandoned.
Self-destruct	selfdestruct	It describes whether this contract can self destruct. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) When the self-destru function is triggered, this contract will be destroye all functions will be unavailable, and all related assets will be erased.
With external call	external_call	It describes whether the contract would call functions of other contracts when primary methods are executed. "1" means true;	(1) When "is_open_source": "0", there will be no return. (2) External call would cause the implementatio of this contract to be

		"0" means false; No return means unknown.	highly dependent on oth external contracts, which may be a potential risk

Trading Security

Method: GET

URL: https://api.gopluslabs.io/api/v1/token_security/{chain_id}?contract_addresses=

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
Buy Tax	buy_tax	It describes the tax when buying the token. Example: "buy_tax": 0.1%. No return means unknown.	(1) When "is_in_dex": "0 there will be no return. (2) Buy tax will cause th actual value received when buying a token to be less than expected, and too much buy tax may lead to heavy losse (3) When "buy_tax": "1", means buy tax is 100% cannot buy. (4) Sometimes token's anti-bot mechanism would affect our sandbo system, leading to "cannoy_buy": "1", causing the display of "buy_tax": "1". (5)Some of the token is deisgned not for sale, leading to "cannot_buy":1, causing the display of "buy_tax": "1".
Sell Tax	sell_tax	It describes the tax when selling the token. Example: "sell_tax": 0.1%. No return means unknown.	(1) When "is_in_dex": "0 there will be no return. (2) Sell tax will cause th actual value received when selling a token to be less than expected, and too much buy tax may lead to large losses (3) When "sell_tax": "1", means sell-tax is 100% this token cannot be sol (4) Sometimes token's trading-cool-down mechanism would affec our sandbox system. When "trading_cooldown": "1" "sell_tax" may return "1"
			(1) Generally, "cannot_buy": "1" would

			be found in Reward Tokens. Such Tokens ar issued as rewards for some on-chain applications and cannot be bought directly by users.
Cannot be bought	cannot_buy	It deiscribes whether the Token can be bought. "1" means true; "0" means false; No return means unknown.	(2) Sometimes token's anti-bot mechanism would affect our sandbo system, causing the display of "buy_tax": "1" (3) When “cannot_buy”: "1", our sandbox system might be bloked, causin the display of "buy_tax": "1" and "sell_tax": "1"
Cannot Sell All	cannot_sell_all	It describes whether the contract has the function restricting token holder selling all the token. "1" means true; "0" means false; No return means unknown.	(1) When "is_in_dex": "0 there will be no return. (2) This feature means that you will not be able to sell all your tokens in single sale. Sometimes you need to leave a certain percentage of the token, e.g. 10%, sometimes you need to leave a fixed number of token, such as 10 token (3) When "buy_tax": "1", there will be no return.
Modifiable Tax	slippage_modifiable	It describes whether the trading tax can be modifiable by token contract. "1" means true; "0" means false; No return means	(1) When When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) Token with modifiabl tax means that the contract owner can modify the buy tax or se tax of the token. This ma cause some losses, especially since some contracts have unlimited modifiable tax rates,

		unknown.	which would make the token untradeable. (4) This function generally relies on ownership. When the contract does not have a owner (or if the owner is black hole address) and the owner cannot be retrieved, this function w most likely be disabled.
Honeypot	is_honeypot	It describes whether the token is a honeypot. "HoneyPot" means that the token maybe cannot be sold because of the token contract's function, Or the token contains malicious code. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) Hight risk, definitely scam.
Pausable Transfer	transfer_pausable	It describes whether trading can be pausable by token contract. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) This feature means that the contract owner will be able to suspend trading at any time, after that anyone will not be able to sell, except thos who have special authority. (4) This function generally relies on ownership. When the contract does not have a owner (or if the owner is black hole address) and the owner cannot be retrieved, this function w most likely be disabled.
			(1) When

			"is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) The contract owner may add any address in the blacklist, and the token holder in blacklist will not be able to trade. Abuse of the blacklist function will lead to grea risks. (4) For contracts without an owner (or the owner a black hole address), th blacklist will not be able to get updated. Howeve the existing blacklist is still in effect.
Blacklist	is_blacklisted	It describes whether the blacklist function is not included in the contract. If there is a blacklist, some addresses may not be able to trade normally. "1" means true; "0" means false; No return means unknown.	
Whitelist	is_whitelisted	It describes whether the whitelist function is not included in the contract. If there is a whitelist, some addresses may not be able to trade normally. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) Whitelisting is mostly used to allow specific addresses to make early transactions, tax-free, ar not affected by transaction suspension. (4) For contracts without an owner (or the owner a black hole address), th whitelist will not be able to get updated. Howeve the existing whitelist is still in effect.
In main Dex	is_in_dex	It describes whether the token can be traded on the main Dex. "1" means true; "0" means false	It only counts when the token has a marketing pair with mainstream coins/tokens.
		It describes Dex information of where the token that can be	(1) When "is_in_dex": "(

Dex info	dex	traded. Example: "dexs" [{"name":"PancakeV2", "liquidity":1.350124503 851149,"pair":"0x7148 76f7cc6978a44967aBa F89B5a947a3B4906d" }]	there will be empty arra (2) It only counts when the token has a marketi pair with mainstream coins/tokens. (3) Liquidity is converte to USDT denomination.
Anti Whale	is_anti_whale	It describes whether the contract has the function to limit the maximum amount of transactions or the maximum token position that for single address. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return.
Modifiable anti whale	anti_whale_modifiabl e	It describes whether the contract has the function to modify the maximum amount of transactions or the maximum token position. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3)When the anti whale value is set to a very small value, all tradinge would fail.
Trading with CooldownTime	trading_cooldown	It describes whether the contract has trading-cool-down mechanism which can limits the minimum time between two transactions. "1" means true; "0" means false; No return means unknown.	(1) When "is_open_source": "0", there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return.
			(1) When "is_open_source": "0",

Assinged Address' Slippage is Modifiable	personal_slippage_ modifiable	It describes whether the owner can set a different tax rate for every assigned address. "1" means ture; "0" means false; No return means unknown.	there will be no return. (2) Sometimes, when "is_proxy": "1", there wil be no return. (3) The contract owner may set a very outrageous tax rate for assigned address to block it from trading. Abuse of this funtcion w lead to great risks. (4) For contracts without an owner (or the owner a black hole address), this function would not able to be used. However, the existing ta rate would be still in effect.

Info Security

Method: GET

URL: https://api.gopluslabs.io/api/v1/token_security/{chain_id}?contract_addresses=

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
Token Name	token_name		
Token Symbol	token_symbol		
Token holder number	holder_count	It describes the number of token holders. Example:"holder_count": "4342"	
Token Total Supply	total_supply	It describes the supply number of the token. Example:"total_supply": 100000000	
Top10 holders info	"holders":[{ "address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5", "locked": 1, "tag": "", "is_contract": 1, "balance": 10000000, "percent": 0.1 "locked_detail": [{"amount": "99619.047369140000000000", "end_time": "2022-04-17T00:00:00+00:00", "opt_time": "2022-01-17T05:44:54+00:00" }]	It describes top10 holders info. The info includes: (1) "address" describes the holder address; (2) "locked." describes whether the tokens owned by the holder are locked "1" means true; "0" means false; (3) “tag” describes the address's public tag. Example:Burn Address/Deployer; (4) “is_contract” describes whether the holder is a contract "1" means true; "0" means false. (5) “balance” describes the balance of the holder. (6) "percent" describes the percentage of tokens held by this holder (7) "locked_detail" is an array, decribes lock position info of this holder, only shows when "locked": 1. This Array may contain multiple objects for	(1) About "locked": W only support the token lock addresses or black hole addresses that we have included (2) When "locked":0, lock address is a black hole address, "locked_detail" will be no return. (3) About "percent": 1 means 100% here.

		multiple locking info. In every objetc, "amount" describes the number of token locked, "end_time" describes when the token will be unlocked, "opt_time" describes when the token was locked.	
Owner Balance	owner_balance	It describes the balance of the contract owner. Example: "owner_balance": "100000000". No return or return empty means there is no ownership or can't find ownership.	When "owner_address" returns empty, or no return, there will be n return.
Token Percentage of Owner	owner_percent	It describes the percentage of tokens held by the contract owner. Example:"owner_balance": "0.1". No return or return empty means there is no ownership or can't find ownership.	(1) 1 means 100% here. (2) When "owner_address" returns empty, or no return, there will be n return.
Creator Address	creator_address	It describes this contract's owner address. Example: "creator_address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5";	
Creator Balance	creator_balance	It describes the balance of the contract owner. Example:"owner_balance": 100000000.	
		It describes the percentage of tokens	

Token Percentage of Creator	creator_percent	held by the contract owner. Example:"owner_balance": 0.1.	1 means 100% here.
LP token holder number	lp_holder_count	It describes the number of LP token holders. Example:"lp_holder_count": "4342". No return means no LP.	When "is_in_dex": "0 there will be no return
LP Token Total Supply	lp_total_supply	It describes the supply number of the LP token. Example:"lp_total_supply": "100000000". No return means no LP.	(1) When "is_in_dex" "0", there will be no return. (2) It is LP token number, NOT token number
Top10 LP token holders info	"lp_holders":[{ "address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5", "locked": 1, "tag": "", "is_contract": 1, "balance": 10000000, "percent": 0.1 "locked_detail": [{"amount": "99619.047369140000000000", "end_time": "2022-04-17T00:00:00+00:00", "opt_time": "2022-01-	It describes top10 LP holders info. The info includes: (1) "address" describes the holder address; (2) "locked" describes whether the tokens owned by the holder are locked. "1" means true; "0" means false; (3) “tag” describes the address's public tag. Example:Burn Address/Deployer; (4) “is_contract” describes whether the holder is a contract "1" means true; "0" means false. (5) “balance” describes the balance of the holder. (6) "percent" describes the percentage of tokens held by this holder (7) "locked_detail" is an array, decribes lock position info of this holder, only shows	(1) When "is_in_dex" "0", there will be no return. (2) About "locked": W only support the token lock addresses or black hole addresses that we have included (3) About "percent": 1 means 100% here. (4) When "locked":"0" or lock address is a black hole address, "locked_detail" will be no return.

	17T05:44:54+00:00" }] }] }]	when "locked": "1". This Array may contain multiple objects for multiple locking info. In every objetc, "amount" describes the number of token locked, "end_time" describes when the token will be unlocked, "opt_time" describes when the token was locked. No return means no LP.	
True/Fake Token	is_true_token	It describes whether the token is true or fake. "1" means true token; "0" means fake token; None means no result (Because we did not find decisive information about the truth or falsity)	Only "is_true_token": "0" means it is a fake token.
Airdrop Scam	is_airdrop_scam	It describes whether the token is an airdrop scam. "1" means true; "0" means false; None means no result (Because We did not find conclusive information on whether token is an airdrop scam).	Only "is_airdrop_scam": "1 means it is an airdrop scam.
Trust List	trust_list	It describes whether the token is a famous and trustworthy one. "1" means true; No return no result (Because We did not find conclusive information on whether token is a airdrop scam).	(1) Only "trust_list": "1 means it is a famous and trustworthy token (2) No return doesn't mean it is risky.

Other Potential Risks	other_potential_risks	It describes whether the contract has other potential risks. Example: “other_potential_risks”: “Owner can set different transaction taxes for each user, which can trigger serious losses.”	(1) If we haven't found any other potential risk yet, there will be no return. (2) Type: string.
Note	note	It describes whether the contract has other things investors need to know. Example: "note”: “Contract owner is a multisign contract.”	(1) If we haven't found any other thing which is valuable yet, there will be no return. (2) Type: string.

Change Logs

04/11/2023

V1.1.24

New Feature	Description	Location	Importance
New Chain supported: zkSync Era	Chain ID: 324; Dex supported: mute.io	https://docs.goplauslabs.io/reference/quick-start/goplus-sdk-for-quick-start	High

02/20/2023

V1.1.19

New Feature	Description	Location	Importance
New Chain supported: Linea(Consensys zkEVM)	Chain ID: 59140; Dex supported: Uniswap	https://docs.goplauslabs.io/reference/quick-start/goplus-sdk-for-quick-start	High

02/02/2023

V1.1.18

New Feature	Description	Location	Importance
New Chain supported: FON	Chain ID: 201022; Dex supported: RosSwap.	https://docs.goplauslabs.io/reference/quick-start/goplus-sdk-for-quick-start	High

01/28/2023

V1.1.17

New Feature	Description	Location	Importance
New parameter: anti_whale_modifiable	It describes whether the contract has the function to modify the maximum amount of transactions or the maximum token position.	https://docs.goplauslabs.io/reference/token-security-api-response-detail	High: This parameter is highly relevant to malicious functions. Please make sure you access to it.

01/18/2023

V1.1.16

New Feature	Description	Location	Importance
Algorithm optimization: is_mintable	Optimized minting function detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.
Algorithm optimization: is_blacklisted	Optimized blacklist function detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.
Algorithm optimization: is_honeypot	Optimized honeypot detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.

11/09/2022

V1.1.15

New Feature	Description	Location	Importance
New locker supported: Fatsale	Fatesale locker is supported		Low: The algorithm has been automatically upgraded, you don't need to change anything.

10/13/2022

V1.1.14

New Feature	Description	Location	Importance
Algorithm optimization: hidden_owner	Optimized minting function detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.

09/16/2022

V1.1.13

New Feature	Description	Location	Importance
Algorithm optimization: buy_tax	Optimized the buy-in tax rate detection for assets that can only be traded in small amounts.		Low: The algorithm has been automatically upgraded, you don't need to change anything.
Algorithm optimization: personal_slippage_modifiable	Optimized personal_slippage_modifiable detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.
Algorithm optimization: is_mintable	Optimized minting function detection algorithm.		Low: The algorithm has been automatically upgraded, you don't need to change anything.

07/28/2022

V1.1.12

New Feature	Description	Location	Importance
Algorithm optimization: hidden_owner	Optimized hidden owner detection algorithm		Low: The algorithm has been automatically upgraded, you don't nee to change anything.
New parameter: personal_slippage_ modifiable	It describes whether the owner can set a different tax rate for every assigned address.	https://docs.goplusla bs.io/reference/toke n-security-api-response-detail/trading-security	High: This parameter is highly relevant to malicious functions. Please make sure you access to it.
New parameter: selfdestruct	It describes whether this cantract can self destruct.	https://docs.goplusla bs.io/reference/toke n-security-api-response-detail/contract-security	High: This parameter is highly relevant to malicious functions. Please make sure you access to it.
New parameter: external_call	It describes whether the contract would call functions of other contracts when primary methods are executed.	https://docs.goplusla bs.io/reference/toke n-security-api-response-detail/contract-security	High: This parameter is highly relevant to malicious functions. Please make sure you access to it.

07/03/2022

V1.1.11

New Feature	Description	Location	Importance
New Locker supported: Mudra	Since the Mudra contract is unverified, we cannot display the locker details.	https://mudra.website/	Low
New parameter: cannot_buy	It describes whether the token is allowed to be bought.	https://docs.gopluslabs .io/reference/token-security-api-response-detail/trading-security	Medium

06/24/2022

V1.1.10

New Feature	Description	Location	Importance
New Chain supported: Cronos	Chain ID: 25; Dex supported: MMFinance, VVS Finance.	https://docs.gopluslabs.io/reference/quick-start	High

06/08/2022

V1.1.9

New Feature	Description	Location	Importance
Algorithm optimization: is_blacklisted	Optimized blacklist function detection algorithm.		Low
Algorithm optimization: is_honeypot	Optimized honeypot detection algorithm.		Low
New Chain supported: Harmony	Chain ID: 1666600000; Dex supported: SushiSwapV2	https://docs.gopluslabs.io/reference/quick-start	High
New Locker supported: DeepLock	DeepLock locker is supported.	https://deeplock.io/safe	Low

05/28/2022

V1.1.8

New Feature	Description	Location	Importance
New parameter: hidden_owner	It describes whether the contract has hidden owners. For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/contract-security	High. This parameter highly relevant to malicious functions. Please make sure yo have access to it.

05/18/2022

V1.1.7

New Feature	Descripion	Location	Importance
New locker supported: PinkLockV2	Pinksale locker V2 is supported	https://www.pinksale.finance/	Low

05/13/2022

V1.1.6

New Feature	Description	Location	Importance
New parameter: trading_cooldown	It describes whether the contract has trading-cool-down mechanism which can limit the minimum time between two transactions.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/trading-security	Medium
New parameter: other_potential_risks	It describes whether the contract has other potential risks.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/info-security	High. This parameter highly relevant to malicious functions. Please make sure yo have access to it.
New parameter: note	It describes whether the contract has other things investors need to know.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/info-security	Low
New locker supported: Team Finance	Team Finance locker is supported	https://www.team.finance/lockups	Medium

04/27/2022

V1.1.5

New Feature	Description	Location	Importance
New Chain supported: OEC	Chain ID: 66Dex supported: CherrySwap, Jswap	https://docs.gopluslabs.io/reference/quick-start	High
New locker supported: Token tool	Token tool locker is supported	https://tokentool.app/	Medium

04/15/2022

V1.1.4

New Feature	Description	Location	Importance
New locker supported: DexSale	DexSale locker is supported	https://dxsale.app/	Medium

04/10/2022

V1.1.3

New Feature	Description	Location	Importance
New Dex supported: FstSwap	FstSwap liquidity pair is supported on BSC	https://fstswap.exchange	Medium
New Chain supported: Fantom	Chain ID: 250Dex supported: SpookySwap	https://docs.gopluslabs.io/reference/quick-start	High

04/02/2022

V1.1.2

New Feature	Description	Location	Importance
Algorithm optimization: is_honeypot	Optimized honeypot detection algorithm		Low

03/28/2022

V1.1.1

New Feature	Description	Location	Importance
New parameter: cannot_sell_all	It describes whether the contract has the function restricting token holder selling all the token.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/trading-security	Medium

03/23/2022

V1.1.0

New Feature	Description	Location	Importance
New function: Access Token	Access token would give you more frequent and stable access	https://docs.gopluslabs.io/reference/access-token	High

02/17/2022

V1.0.1

New Feature	Description	Location	Importance
New parameter: is_anti_whale	It describes whether the contract has the function to limit the maximum amount of transactions or the maximum amount of coins held.	https://docs.gopluslabs.io/reference/token-security-api-response-detail/trading-security	High

Malicious Address API Response Detail

Free, timely and comprehensive malicious address library.

GET https://api.gopluslabs.io/api/v1/address_security/{address}?chain_id=

Parameters

No parameters

Responses

Method: GET

URL: https://api.gopluslabs.io/api/v1/address_security/{address}?chain_id=

PATH PARAM

Parameters	Type	Required	Description
addresses	String	True	Address needs to be detected

FORM PARAM

Parameters	Type	Required	Description
chain_id	String	True	The `chain_id` of the blockchain. "1" means Ethereum; "10" means Optimism; “25” means Cronos; "56" means BSC; “66” means OKC; "100" means Gnosis; "128" means HECO; "137" means Polygon; "250" means Fantom; "321" means KCC; "324" means zkSync Era; "10001" means ETHW; "201022" means FON; "42161" means Arbitrum; "43114" means Avalanche; "59140" means Linea; "1666600000" means Harmony; "tron" means Tron.

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Notice: If only the address is sent to the API and not the chain id, the "contract_address" will not be returned (This is because there are cases where the same address is a contract in one public chain but not in other public chains.)

Response Parameters

Security items	Parameter	Description	Notice
Data Source	data_source	It describes the data source for this address information. For example：GoPlus/SlowMist	
Addresses Related to Honeypot	honeypot_related_address	It describes whether this address is related to honeypot tokens or has created scam tokens. "1" means true; "0" means false.	Addresses related to honeypot mean the creators or owners of the honeypot tokens. This is a dangerous address if the address is ralated to honeypot tokens.
Phishing Activities	phishing_activities	It describes whether this address has implemented phishing activities. "1" means true; "0" means false.	
Black Mail Activities	blackmail_activities	It describes whether this address has implemented blackmail activities. "1" means true; "0" means false.	
Stealing Attack	stealing_attack	It describes whether this address has implemented stealing attacks. "1" means true; "0" means false.	
Fake KYC	fake_kyc	It describes whether this address is involved in fake KYC. "1" means true; "0" means false.	
Malicious Mining	malicious_mining_acti	It describes whether this address is involved in malicious mining activities.	

Activities	vities	"1" means true; "0" means false.	
Darkweb Transactions	darkweb_transactions	It describes whether this address is involved in darkweb transactions. "1" means true; "0" means false.	
Cybercrime	cybercrime	It describes whether this address is involved in cybercrime. "1" means true; "0" means false.	
Money Laundering	money_laundering	It describes whether this address is involved in money laundering. "1" means true; "0" means false.	
Financial Crime	financial_crime	It describes whether this address is involved in financial crime. "1" means true; "0" means false.	
Suspected Malicious Address	blacklist_doubt	It describes whether this address is suspected of malicious behavior. "1" means true; "0" means false.	
		It describes whether	If only the address is sent to the API and nc the chain id, the "contract_address" w not be returned (This because there are cases where the sam address is a contract one public chain but not in other public chains.) Determining

Contract Address	contract_address	this address is a contract address. "1" means true; "0" means false.	the contract address i achieved by calling a third-party blockchain browser interface. Since it takes time for the browser interface return, the field may b empty on the first request. Solution: the second call around 5s can return whether the address is the value c the contract normally.
Coin Mixer address	mixer	It describes whether this address is coin mixer address. "1" means true; "0" means false.	Interacting with coin mixer may result in your address being added to the risk list c third-party institutions
Sanctioned Address	sanctioned	It describes whether this address is coin sanctioned address. "1" means true; "0" means false.	
Number of malicious contracts	number_of_malicious_contracts_created	This parameter describes how many malicious contracts have been created by this address.	

Code

Code

API License Agreement

API License Agreement

Change Logs

12/27/2022

V1.0.2

New Feature	Description	Location	Importance
New parameter: number_of_malicious_contracts_created	This parameter describes how many malicious contracts have been created by this address.	https://docs.gopluslabs.io/reference/malicious-address-api-response-detail	Medium

11/25/2022

V1.0.1

New Feature	Description	Location	Importance
New parameter: mixer	It describes whether this address is a coin mixer address.	https://docs.gopluslabs.io/reference/malicious-address-api-response-detail	High
New parameter: sanctioned	It describes whether this address is sanctioned address.	https://docs.gopluslabs.io/reference/malicious-address-api-response-detail	High

Approval Security API v1

GET https://api.gopluslabs.io/api/v1/approval_security/{chain_id}?contract_addresses=

Parameters

No parameters

Responses

Method: GET

URL: https://api.gopluslabs.io/api/v1/approval_security/{chain_id}?contract_addresses=

PATH PARAM

Parameters	Type	Required	Description
chain_id	String	True	Chain id, (ETH: 1, BSC: 56 OKC: 66, Heco: 128, Polygon: 137, Fantom:250, Arbitrum: 42161, Avalanche 43114)

FORM PARAM

Parameters	Type	Required	Description
contract_addresses	String	True	Contract needs to be detected

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
Contract Name	contract_name	It describes the approved contract name.	
Contract Tag	tag	It describes which dapp uses the contract. Example:"tag": "Compound"	
Contract or not	is_contract	It describes whether the address is a contract. "1" means true; "0" means false.	
Creator Address	creator_address	It describes the creator address of the contract.	When the address is not a contract ("is_contract"=0), it w return "null".
Deployed Time	deployed_time	It describes the deployed time of the contract. **The value is presented as a timestamp.** Example: "deployed_time": 1626578345	When the address is not a contract ("is_contract"=0), it w return "null".
Open Source	is_open_source	It describes whether this contract is open source. "1" means true; "0" means false.	When the address is not a contract ("is_contract"=0), it w return "null".
Trust List	trust_list	It describes whether the address is a famous and trustworthy one. "1" means true; "0" means that we have not included this address in the trusted list;	Return "0" does not mean the address is not trustworthy. Mayb we just haven't included it yet.
		It describes whether the address is a	

Suspected Malicious Contract	doubt_list	suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this address.	Return "0" does not mean it is safe. Mayb we just haven't found its malicious behavio
Specific Malicious Behavior	malicious_behavior:[]	It describes specific malicious behaviors. **"honeypot_related_address"** means that the address is related to honeypot tokens or has created scam tokens. **"phishing_activities"** means that this address has implemented phishing activities. **"blackmail_activities"** means that this address has implemented blackmail activities. **"stealing_attack"** means that this address has implemented stealing attacks. **"fake_kyc"** means that this address is involved in fake KYC. **"malicious_mining_activities"** means that this address is involved in malicious mining activities. **"darkweb_transactions"** means that this address is involved in darkweb transactions. **"cybercrime"** means that this address is involved in cybercrime. **"money_laundering"** means that this address is involved in	Returning **an empty array** means that no malicious behavior was found at that address.

		money laundering. **"financial_crime"** means that this address is involved in financial crime. **“blacklist_doubt”** means that the address is suspected of malicious behavior and is therefore blacklisted.	

Sample Response


```
{
  "code": 1,
  "message": "ok",
  "result": {
    "contract_name": "TransparentUpgradeableProxy",
    "tag": "ALPACA",
    "is_contract": 1,
    "creator_address": "0xc44f82b07ab3e691f826951a6e335e1bc1bb0b51",
    "deployed_time": 1641541530,
    "is_open_source": 1,
    "trust_list": 1,
    "doubt_list": 0,
    "malicious_behavior":["phishing_activities"]
  }
}
```


Code

Code

API License Agreement

API License Agreement

Change Logs

09/23/2022

V1.0.9

New Feature	Description	Location	Importance
New parameter: malicious_behavior:[]	It describes the specific malicious behaviors of the address.	https://docs.gopluslabs.io/reference/approval-security-api-v1	Medium: This feature is a supplement to the original one. We recommend you access it.

Approval Management API (Approval Security API v2)

Differences between Version1 and Version2

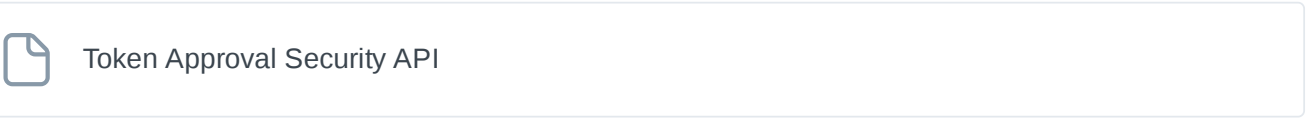
Different Usage

Version1 mainly supports inputting approved contracts and detects the security of approved contracts. Version2 mainly supports inputting a EOA, viewing the contracts approved by the address and the information of the approved contracts (basic information + risk detection) .

Different Application Scenarios

Version1 is more for the exchange, blockscan such as instant approval scenario. Version2 is more for the wallet, users can view the approval history and check the security of approved contracts.

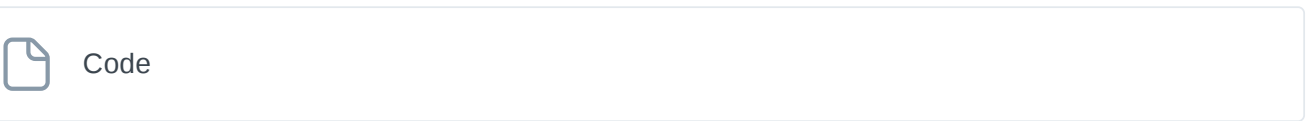
Token Approval Security



ERC721 NFT Approval Security API

ERC1155 NFT Approval Security API

Error Code



API License Agreement

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Token Approval Security API

API: https://api.gopluslabs.io/api/v2/token_approval_security/56?addresses=

METHOD: `GET`

PATH PARAM:

Parameters	required	description
chain_id	True	Chain id, (eth:1, bsc:56)

FORM PARAM

Parameters	Required	Description
addresses	True	EOA address

EXAMPLE:

https://api.gopluslabs.io/api/v2/token_approval_security/56?addresses=0xd018e2b543a2669410537f96293590138cacedf3

Request Headers:

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response ：

Security items	Parameter	Description	Notice
Token Contract	token_address	It describes the token contract address which is approved.	
Chain	chain_id	The `chain_id` of the blockchain. "1" means Ethereum; "56" means BSC.	
Token Name	token_name	token_name	
Token Symbol	token_symbol	token_symbol	
Token Precision	decimals	It describes the token precision.	
Token Holdings	balance	It describes the token balance of the address.	The type of return value is string.
Open Source	is_open_source	It describes whether this contract is open source. "1" means true; "0" means false.	Un-open-sourced contracts may hide various unknown mechanisms and are extremely risky. When the contract is not open source, we will not be able to detect other risk items
Malicious Token	malicious_address	It describes whether this token has performed malicious behaviors. "1" means true; "0" means false.	Malicious behaviors include random additions, blacklist abuse, falsified transactions, and othe high-risk behaviors. Interacting with token flagged as Malicious may contain a high level of risk.
		It describes specific malicious behaviors. **"honeypot_related_address"** means that the address is related to honeypot tokens or	

Specific Malicious Behavior	malicious_behavior:[]	has created scam tokens. **"phishing_activities"** means that this address has implemented phishing activities. **"blackmail_activities"** means that this address has implemented blackmail activities. **"stealing_attack"** means that this address has implemented stealing attacks. **"fake_kyc"** means that this address is involved in fake KYC. **"malicious_mining_activities"** means that this address is involved in malicious mining activities. **"darkweb_transactions"** means that this address is involved in darkweb transactions. **"cybercrime"** means that this address is involved in cybercrime. **"money_laundering"** means that this address is involved in money laundering. **"financial_crime"** means that this address is involved in financial crime. **“blacklist_doubt”** means that the address is suspected of malicious behavior and is therefore blacklisted	Returning **an empty array** means that no malicious behavior was found at that address.
Approved Contract	approved_contract	It describes the approved contract.	

Initial Approval Time	initial_approval_time	It describes when is the first time owner approved allowance to the spender. **The value is timestamp.**	
Initial Approval Hash	initial_approval_hash	It describes the initial approved allowance hash of the contract.	
Latest Approved Time	approved_time	It describes the latest allowance changeing time of the contract. **The value is timestamp.**	
Latest Approved Hash	hash	It describes the latest allowance changeing hash of the contract.	
Approved Amount	approved_amount	It describes the approved amount of the contract.	The type of return value is string.
	"address_info": {"contract_name": , "tag": , "is_contract": , "is_open_source": ,	It describes the approved contract info. The info includes: (1) "contract_name" describes the approved contract name. (2) "tag" describes which dApp uses the contract. Example: "tag": "Compound". (3) "is_contract" describes whether the address is a contract. "1" means true; "0" means false. (4) "is_open_source" describes whether this contract is open source. "1" means true; "0" means false. (5) "trust_list" describes whether the	When the address is not a contract ("is_contract"=0), "contract_name" , "creator_address", "deployed_time" will

Address Info	"trust_list": , "doubt_list": , "malicious_behavior": [], "creator_address": "", "deployed_time": ,}	address is a famous and trustworthy one. "1" means true; "0" means that we have not included this address in the trusted list. (6) "doubt_list" describes whether the address is a suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this address. (7)"malicious_behavior" describes specific malicious behaviors. (8) "creator_address" describes the creator address of the contract. (9) "deployed_time" describes the deployed time of the contract. **The value is presented as a timestamp.**	return "null". When no malicious behavior was found a that address, "malicious_behavior" will return **an empty array**.

Response Example:

```
{
  "code": 1,
  "message": "ok",
  "result": [
    {
      "token_address": "0x55d398326f99059ff775485246999027b3197955",
      "chain_id": "56",
      "token_name": "Tether USD",
      "token_symbol": "USDT",
      "decimals": 18,
      "balance": "244.312991926161305209",
      "is_open_source": 1,
      "malicious_address": 0,
      "malicious_behavior":["phishing_activities"],
      "approved_list": [
        {
          "approved_contract": "0x10ed43c718714eb63d5aa57b78b54704e256024e",
          "approved_amount": "Unlimited",
          "approved_time": 1619498864,
          "hash": "0x9568d7fa18d3a23562dc61ff0a0457b177fea1e61b6661aa7729ee4bdf62c0b9",
          "address_info": {
            "contract_name": "PancakeRouter",
            "tag": "Pancakeswap",
            "creator_address": "0xdb6f5fb9311ae8885620ee893887c3d85c8293d6",
            "is_contract": 1,
            "doubt_list": 0,
            "malicious_behavior":[],
            "deployed_time": 1619165545,
            "trust_list": 1,
            "is_open_source": 1
          }
        }
      ]
    }
  ]
}
```

ERC721 NFT Approval Security API

API: http://api.goplusla bs.io/api/v2/nft721_approval_security/1?addresses=

METHOD: `GET`

PATH PARAM:

Parameters	required	description
chain_id	True	Chain id, (eth:1, bsc:56)

FORM PARAM

Parameters	Required	Description
addresses	True	EOA address

EXAMPLE:

http://api.goplusla bs.io/api/v2/nft721_approval_security/1?addresses=0xd95dbdab08a9fed2d71ac9c3028aac40905d8cf3

Request Headers:

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response ：

Security items	Parameter	Description	Notice
Token Contract	nft_address	It describes the NFT contract address which is approved.	
Chain	chain_id	The `chain_id` of the blockchain. "1" means Ethereum; "56" means BSC.	
NFT Name	nft_name	token_name	
NFT Symbol	nft_symbol	token_symbol	
Open Source	is_open_source	It describes whether this contract is open source. "1" means true; "0" means false.	Un-open-sourced contracts may hide various unknown mechanisms and are extremely risky. When the contract is not open source, we will not be able to detect other risk items
The NFT verified	is_verified	It describes whether the NFT is verified. "1" means that the NFT is verified; "0" means that we did not find any information about whether the NFT is verified.	
Malicious NFT	malicious_address	It describes whether this token has performed malicious behaviors. "1" means true; "0" means false.	Malicious behaviors include random additions, blacklist abuse, falsified transactions, and othe high-risk behaviors. Interacting with token flagged as Malicious may contain a high level of risk.
		It describes specific malicious behaviors. **"honeypot_related_a**	

Specific Malicious Behavior	malicious_behavior:[]	**ddress"** means that the address is related to honeypot tokens or has created scam tokens. **"phishing_activities"** means that this address has implemented phishing activities. **"blackmail_activities"** means that this address has implemented blackmail activities. **"stealing_attack"** means that this address has implemented stealing attacks. **"fake_kyc"** means that this address is involved in fake KYC. **"malicious_mining_activities"** means that this address is involved in malicious mining activities. **"darkweb_transactions"** means that this address is involved in darkweb transactions. **"cybercrime"** means that this address is involved in cybercrime. **"money_laundering"** means that this address is involved in money laundering. **"financial_crime"** means that this address is involved in financial crime. **“blacklist_doubt”** means that the address is suspected of malicious behavior and is therefore blacklisted	Returning **an empty array** means that no malicious behavior was found at that address.

Approved Contract	approved_contract	It describes the approved contract.	
Initial Approval Time	initial_approval_time	It describes when is the first time owner approved allowance to the spender. **The value is timestamp.**	
Initial Approval Hash	initial_approval_hash	It describes the initial approved allowance hash of the contract.	
Latest Approved Time	approved_time	It describes the latest allowance changeing time of the contract. **The value is timestamp.**	
Latest Approved Hash	hash	It describes the latest allowance changeing hash of the contract.	
Approved Type(Approved for all /Approved for single NFT)	approved_for_all	It describes the type approved. "1" means "approved for all"; "0" means "approved for single NFT".	The type of return value is bool.Note: Only the ERC721 NFTs have the two types of approved for all /approved for singl The ERC1155 NFTs have only one type - approved for all.
The Token_id of Approved NFT	approved_token_id	It describes the token_id of the approved NFT if the approved type is "approved for single".	When the approved type is "approved for all" ("approved_for_all"=1 it will return "null".
		It describes the approved contract info. The info includes: (1) "contract_name" describes the approved contract name. (2) "tag" describes which dApp uses the contract.	

Address Info	"address_info": {"contract_name": , "tag": , "is_contract": , "is_open_source": , "trust_list": , "doubt_list": , "malicious_behavior": [], "creator_address": "", "deployed_time": ,}	Example: "tag": "Compound" (3) "is_contract" describes whether the address is a contract. "1" means true; "0" means false. (4) "is_open_source" describes whether this contract is open source. "1" means true; "0" means false. (5) "trust_list" describes whether the address is a famous and trustworthy one. "1" means true; "0" means that we have not included this address in the trusted list. (6) "doubt_list" describes whether the address is a suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this address. (7)"malicious_behavior" describes specific malicious behaviors. (8) "creator_address" describes the creator address of the contract. (9) "deployed_time" describes the deployed time of the contract. **The value is presented as a timestamp.**	When the address is not a contract ("is_contract"=0), "contract_name" , "creator_address", "deployed_time" will return "null". When no malicious behavior was found a that address, "malicious_behavior" will return **an empty array**.

Response Example:

```
{
  "code": 1,

  "message": "ok",
  "result": [
    {
      "nft_address": "0xb045248a632907df9565a5b8d4df4eaa0e81e7ca",
      "chain_id": "56",
      "nft_name": "WitchMagicBox721",
      "nft_symbol": "WitchMagicBox721",
      "is_open_source": 0,
      "is_verified": 1,
      "malicious_address": 0,
      "malicious_behavior":["phishing_activities"],
      "approved_list": [
        {
          "approved_contract": "0x1ccc54b5f38a758a1c922c3dbe374e2f41c45409",
          "approved_for_all": 1,
          "approved_token_id": null,
          "approved_time": 1641319315,
          "hash": "0x7134e533e4f0ebd4b0c14c8d0000f986a073d3b1fd84ccedf1c2fb89db743692",
          "address_info": {
            "contract_name": "NormalMarket",
            "tag": null,
            "creator_address": "0x615759d8519dc77f7b2a42a90a9512cd015197a7",
            "is_contract": 1,
            "doubt_list": 0,
            "malicious_behavior":[],
            "deployed_time": 1624961887,
            "trust_list": 0,
            "is_open_source": 1
          }
        }
      ]
    },
    {
      "nft_address": "0x0000f22ffe0866ffb8834600dad9259cf4956853",
      "chain_id": "56",
      "nft_name": "BSC Name Service (.bnb)",
      "nft_symbol": "TD",
      "is_open_source": 1,
      "is_verified": 0,
      "malicious_address": 0,
      "malicious_behavior":[],
      "approved_list": [
        {
          "approved_contract": "0x1ccc54b5f38a758a1c922c3dbe374e2f41c45409",
          "approved_for_all": 1,
          "approved_token_id": null,
          "approved_time": 1628015932,
          "hash": "0x6149242cd0e44d7fae3663841cb872aedc3b6b0b26a98dbfb0553a44d73d93f5",
          "address_info": {
```

```
            "contract_name": "NormalMarket",
            "tag": null,
            "creator_address": "0x615759d8519dc77f7b2a42a90a9512cd015197a7",
            "is_contract": 1,
            "doubt_list": 0,
            "malicious_behavior":[],
            "deployed_time": 1624961887,
            "trust_list": 0,
            "is_open_source": 1
          }
        }
      ]
    }
  ]
}
```

ERC1155 NFT Approval Security API

API: https://api.goplus labs.io/api/v2/nft1155_approval_security/56?addresses=

METHOD: `GET`

PATH PARAM:

Parameters	required	description
chain_id	True	Chain id, (eth:1, bsc:56)

FORM PARAM

Parameters	Required	Description
addresses	True	EOA address

EXAMPLE:

https://api.goplus labs.io/api/v2/nft1155_approval_security/56?addresses=0xb0dccbb9c4a65a94a41a0165aaea79c8b2fc54ce

Request Headers:

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response ：

Security items	Parameter	Description	Notice
Token Contract	nft_address	It describes the NFT contract address which is approved.	
Chain	chain_id	The `chain_id` of the blockchain. "1" means Ethereum; "56" means BSC.	
NFT Name	nft_name	token_name	
NFT Symbol	nft_symbol	token_symbol	
Open Source	is_open_source	It describes whether this contract is open source. "1" means true; "0" means false.	Un-open-sourced contracts may hide various unknown mechanisms and are extremely risky. When the contract is not open source, we will not be able to detect other risk items
The NFT verified	is_verified	It describes whether the NFT is verified. "1" means that the NFT is verified; "0" means that we did not find any information about whether the NFT is verified.	
Malicious NFT	malicious_address	It describes whether this token has performed malicious behaviors. "1" means true; "0" means false.	Malicious behaviors include random additions, blacklist abuse, falsified transactions, and othe high-risk behaviors. Interacting with token flagged as Malicious may contain a high level of risk.
		It describes specific malicious behaviors. **"honeypot_related_a**	

Specific Malicious Behavior	malicious_behavior:[]	**ddress"** means that the address is related to honeypot tokens or has created scam tokens. **"phishing_activities"** means that this address has implemented phishing activities. **"blackmail_activities"** means that this address has implemented blackmail activities. **"stealing_attack"** means that this address has implemented stealing attacks. **"fake_kyc"** means that this address is involved in fake KYC. **"malicious_mining_activities"** means that this address is involved in malicious mining activities. **"darkweb_transactions"** means that this address is involved in darkweb transactions. **"cybercrime"** means that this address is involved in cybercrime. **"money_laundering"** means that this address is involved in money laundering. **"financial_crime"** means that this address is involved in financial crime. **“blacklist_doubt”** means that the address is suspected of malicious behavior and is therefore blacklisted	Returning **an empty array** means that no malicious behavior was found at that address.

Approved Contract	approved_contract	It describes the approved contract.	
Initial Approval Time	initial_approval_time	It describes when is the first time owner approved allowance to the spender. **The value is timestamp.**	
Initial Approval Hash	initial_approval_hash	It describes the initial approved allowance hash of the contract.	
Latest Approved Time	approved_time	It describes the latest allowance changeing time of the contract. **The value i**	
Latest Approved Hash	hash	It describes the latest allowance changeing hash of the contract.	
	"address_info": {"contract_name": , "tag": , "is_contract": , "is_open_source": ,	It describes the approved contract info. The info includes: (1) "contract_name" describes the approved contract name. (2) "tag" describes which dApp uses the contract. Example: "tag": "Compound". (3) "is_contract" describes whether the address is a contract. "1" means true; "0" means false. (4) "is_open_source" describes whether this contract is open source. "1" means true; "0" means false. (5) "trust_list" describes whether the	When the address is not a contract ("is_contract"=0), "contract_name" , "creator_address", "deployed_time" will

Address Info	"trust_list": , "malicious_behavior": "doubt_list": [], "creator_address": "", "deployed_time": ,}	"1" means true; address is a famous and trustworthy one. "0" means that we have not included this address in the trusted list. (6) "doubt_list" describes whether the address is a suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this address. (7)"malicious_behavior" describes specific malicious behaviors. (8) "creator_address" describes the creator address of the contract. (9) "deployed_time" describes the deployed time of the contract. **The value is presented as a timestamp.**	return "null". When no malicious behavior was found a that address, "malicious_behavior" will return **an empty array**.

Response Example:

```
{
  "code": 1,
  "message": "ok",
  "result": [
    {
      "nft_address": "0x1c226595ff8fd09e9ea2f2e779338afc95d17c2e",
      "chain_id": "1",
      "nft_name": "xNFT1155",
      "nft_symbol": "xNFT1155",
      "is_open_source": 0,
      "is_verified": 0,
      "malicious_address": 0,
      "malicious_behavior":["phishing_activities"],
      "approved_list": [
        {
          "approved_contract": "0xa1f4ea3d0b36565cc11fe03fd6f86045e6593ca1",
          "approved_time": 1631221666,

          "hash": "0xd617f0a3019d58e8a97a03855050e019e8eac71af1f567c5b06733f3cf1fa708",
          "address_info": {
            "contract_name": null,
            "tag": null,
            "creator_address": "0x615759d8519dc77f7b2a42a90a9512cd015197a7",
            "is_contract": 1,
            "doubt_list": 0,
            "malicious_behavior":[],
            "deployed_time": 1631015480,
            "trust_list": 0,
            "is_open_source": 0
          }
        }
      ]
    },
    {
      "nft_address": "0xd07dc4262bcdbf85190c01c996b4c06a461d2430",
      "chain_id": "1",
      "nft_name": "Rarible",
      "nft_symbol": "RARI",
      "is_open_source": 1,
      "is_verified": 1,
      "malicious_address": 0,
      "malicious_behavior":[],
      "approved_list": [
        {
          "approved_contract": "0x1e0049783f008a0085193e00003d00cd54003c71",
          "approved_time": 1656622732,
          "hash": "0xc59445405a9e2509153a1913adc75579c21882e73e3fb5484dba3881f88bcc43",
          "address_info": {
            "contract_name": null,
            "tag": null,
            "creator_address": "0x939c8d89ebc11fa45e576215e2353673ad0ba18a",
            "is_contract": 1,
```

```
            "doubt_list": 0,
            "malicious_behavior":[],
            "deployed_time": 1654994918,
            "trust_list": 0,
            "is_open_source": 0
          }
        }
      ]
    }
  ]
}
```

Change Logs

01/12/2023

V1.0.5

New Feature	Description	Location	Importance
New parameter: initial_approval_hash	It describes the initial approved allowance hash of the contract.	https://docs.gopluslabs.io/reference/approval-management-api-approval-security-api-v2	Medium: This feature a supplement to the original one. We recommend you access it.

12/30/2022

V1.0.4

New Feature	Description	Location	Importance
New parameter: initial_approval_time	It describes when is the first time owner approved allowance to the spender.	https://docs.gopluslabs.io/reference/approval-management-api-approval-security-api-v2	Medium: This feature a supplement to the original one. We recommend you access it.

09/23/2022

V1.0.3

New Feature	Description	Location	Importance
New parameter: malicious_behavior:[]	It describes the specific malicious behaviors of the address.	https://docs.gopluslabs.io/reference/approval-management-api-approval-security-api-v2	Medium: This feature is a supplement to the original one. We recommend you access it.

Signature Data Decode API

Method: POST

URL: http://api.gopluslabs.io/api/v1/abi/input_decode

Request Body

name	required	description
chain_id	True	Chain id, (ETH: 1, Cronos:25, BSC: 56, Heco: 128, Polygon: 137, Fantom:250, KCC: 321, Arbitrum: 42161, Avalanche: 43114)
signer	False	Carrying the signer and contrac address will help to decode more information.
contract_address	False	Carrying the signer and contrac address will help to decode more information.
data	True	Transaction input

Example:

```
{
  "chain_id": "56",
  "signer": "0xA8dfd1f310C6e3DE99DaA81096fd0dA5DA5e4399",
  "contract_address": "0x10ed43c718714eb63d5aa57b78b54704e256024e",
  "data": "0x38ed173900000000000000000000000000000000000000000000000016345785d8a0000000000000
}
```

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token
Content-Type	String	True	application/json

Response

Security items	Parameter	Description	Notice
Method Name	method	It describes the method name in ABI, for example "transfer".	
Parameter Type	type	It describes the parameter type in ABI, for example "address", "uint256", "bool".	
Parameter Name	name	It describes the parameter name in ABI, for example "_from", "_to", "_value".	
Input Data	input	It describes the input data in ABI.	
Address Info	"address_info": { "is_contract":, "contract_name": , "standard": ,"symbol": , "name": ,"malicious_address": , }	It describes the info about the address as a parameter. The info includes: (1) "is_contract" describes whether the address is a contract. "1" means true; "0" means false. (2) "contract_name" describes the contract name if the address is a contract. (3) "standard" describes the standard type of the contract.Example:"erc 20". (4) "symbol" describes the token symbol if the address is an ERC20 contract. (5) "name" describes the token name if the address is an ERC20 contract. (6) "malicious_address" describes whether the address is a	When the address is not a contract ("is_contract"=0), "contract_name", "standard", "symbol", "name" will return "null". When the address is contract but not an erc20 contract, "standard", "symbol", "name" will return "null".

		suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this address.	
Contract Name	contract_name	The name of the contract that the user is interacting with.	
Contract Description	contract_description	Description of the contract.	
Is Malicious Contract	malicious_contract	It tells if contract that the user is interacting with is malicious contract.	
Signature Detail	signature_detail	It explain the function of the method	
Is Risky Signature	risky_signature	It tells if the transaction that users are signing contains risk.	Even non-malicious, commonly used, well known contracts can be highly risky if not used properly.
Risk Detail	risk	It explains why the transaction that users are signing contains risk.	Even non-malicious, commonly used, well known contracts can be highly risky if not used properly.

Response Example

```
{
        "code": 1,
        "message": "ok",
        "result": {
                "method": "swapExactTokensForTokensSupportingFeeOnTransferTokens",
                "risk": "The ultimate beneficiary of this transaction is not the your address
                "params": [
                        {
                                "type": "uint256",
                                "name": "amountIn",
                                "input": "100000000000000000",
                                "struct": null,
                                "tuple": null,
                                "address_info": null
                        },
                        {
                                "type": "uint256",
                                "name": "amountOutMin",
                                "input": "13632900000000000",
                                "struct": null,
                                "tuple": null,
                                "address_info": null
                        },
                        {
                                "type": "address[]",
                                "name": "path",
                                "input": [
                                        {
                                                "type": "address",
                                                "name": null,
                                                "input": "0x55d398326f99059ff775485246999027b3
                                                "struct": null,
                                                "tuple": null,
                                                "address_info": {
                                                        "standard": "ERC20",
                                                        "symbol": "USDT",
                                                        "name": "Tether USD",
                                                        "contract_name": "Tether USD",
                                                        "malicious_address": 1,
                                                        "is_contract": 1
                                                }
                                        },
                                        {
                                                "type": "address",
                                                "name": null,
                                                "input": "0xccb52799b9c843d15c8018e082927f0ba5
                                                "struct": null,
                                                "tuple": null,
                                                "address_info": {
                                                        "standard": null,
                                                        "symbol": null,
                                                        "name": null,
```

```
                                                "contract_name": null,
                                                "malicious_address": 0,
                                                "is_contract": 0
                                        }
                                }
                        ],
                        "struct": null,
                        "tuple": null,
                        "address_info": null
                },
                {
                        "type": "address",
                        "name": "to",
                        "input": "0xa8dfd1f310c6e3de99daa81096fd0da5da5e4398",
                        "struct": null,
                        "tuple": null,
                        "address_info": {
                                "standard": null,
                                "symbol": null,
                                "name": null,
                                "contract_name": null,
                                "malicious_address": 0,
                                "is_contract": 0
                        }
                },
                {
                        "type": "uint256",
                        "name": "deadline",
                        "input": "1682097634",
                        "struct": null,
                        "tuple": null,
                        "address_info": null
                }
        ],
        "contract_name": "PancakeSwap",
        "contract_description": "PancakeSwap Router",
        "malicious_contract": null,
        "signature_detail": "Swap token for another token on PancakeSwap.",
        "risky_signature": 1
    }
}
```


Error Code

Code

API License Agreement

API License Agreement

Ghange Logs

12/20/2022

V1.0.7

New Feature	Description	Location	Importance
Algorithm optimization: Decode of Array and Struct		https://docs.gopluslabs.io/reference/signature-data-decode-api	Medium: This feature is a supplement to the original one. We recommend you access it.

NFT Security API

GET https://api.gopluslabs.io/api/v1/nft_security/{chain_id}?contract_addresses=

Parameters

No parameters

Responses

Method: GET

URL: https://api.gopluslabs.io/api/v1/nft_security/{chain_id}?contract_addresses=

PATH PARAM

Parameters	Type	Required	Description
chain_id	String	True	Chain id, (eth: 1, bsc: 56, Polygon: 137, Avalanche: 43114)

FORM PARAM

Parameters	Type	Required	Description
contract_addresses	String	True	NFT contract address

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
NFT Name	nft_name		
NFT Symbol	nft_symbol		
NFT Description	nft_description	It describes the introduction of the NFT. Return “null” means there is no description of the NFT.	
NFT ERC	nft_erc	It describes the ERC protocol of the NFT. Example: "nft_erc": "erc721"	
Creator Address	creator_address	It describes the creator address of the NFT. Example: "creator_address": "0x1ee0af784b96bb55ece98c9b15675726b0da1b6b"; Return “null” means that we didn't find the creator address.	
The number of blocks created	create_block_number	It describes the number of blocks created for the NFT. Return “null” means that we didn't find the number of blocks created for the NFT.	
Website URL	website_url	It describes the website url of the NFT. Return “null” means there is no website url or didn't find the website url.	
Discord URL	discord_url	It describes the discord url of the NFT. Return “null” means there is no discord url or didn't find the discord url.	
		It describes the github url	

Github URL	github_url	of the NFT. Return “null” means there is no github url or didn't find the github url.	
Twitter URL	twitter_url	It describes the twitter url of the NFT. Return “null” means there is no twitter url or didn't find the twitter url.	
Medium URL	medium_url	It describes the medium url of the NFT. Return “null” means there is no medium url or didn't find the medium url.	
Telegram URL	telegram_url	It describes the telegram url of the NFT. Return “null” means there is no telegram url or didn't find the telegram url.	
NFT Items	nft_items	It describes the numbers of the NFT.	
NFT Holders	nft_owner_number	It describes the holders of the NFT.	
The average price in 24h	average_price_24h	It describes the average price of the NFT in 24h.	
The lowest price in 24h	lowest_price_24h	It describes the lowest price of the NFT in 24h.	
The sales in 24h	sales_24h	It describes the sales of the NFT in 24h.	
The trading volume in 24h	traded_volume_24h	It describes the trading volume of the NFT in 24h.	
The total volume	total_volume	It describes the total volume of the NFT.	
The highest price	highest_price	It describes the highest price of the NFT.	
		It describes whether the NFT is verified. "1" means that the NFT is	

The NFT is verified	nft_verified	verified; "0" means that we did not find any information about whether the NFT is verified.	
The info of duplicate name NFTs	"same_nfts": [{"nft_name":"Landbox Club","nft_symbol":"Land","nft_address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5","nft_owner_number": "1111","create_block_number": "1111"}, {"nft_name":"Landbox Club", "nft_symbol":"Land","nft_address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5","nft_owner_number": "1111"}]	It describes the info of other NFTs with duplicate name and symbol. The info includes: (1) "nft_name" describes the name of the NFT; (2) "nft_symbol" describes the symbol of the NFT; (3) “nft_address” describes the address of the NFTs; (4) “nft_owner_number” describes the holders of the NFT; (5) “create_block_number” describes the number of blocks created for the NFT. Return "null" means no NFTs with duplicate name and symbol.	
Trust List	trust_list	It describes whether the NFT is a famous and trustworthy one. "1" means true; Return "null" means no result.	(1) Only "trust_list": "1" means it is a famous and trustworthy NFT. (2) Return "null" doesn't mean it is risky.Th
Malicious NFT	malicious_nft_contract	It describes whether this NFT has performed malicious behaviors. "1" means true; "0" means false.	Malicious behaviors include random additions, blacklist abuse, falsified transactions, and other high-risk behaviors. Interacting with NFTs flagged as Malicious may contain a high level of risk
Open Source	nft_open_source	It describes whether this contract is open source.	Un-open-sourced contract may hide various unknow mechanisms and are extremely risky. When the

		"1" means true; "0" means false.	contract is not open sourc we will not be able to dete other risk items.
NFT Contract is Proxy	nft_proxy	It describes whether this NFT contract has a proxy contract. "1" means true; "0" means false; "Null" means unknown.	(1) When "is_open_source": "0", it will return "null". (2) Most Proxy contracts are accompanied by modifiable implementation contracts, and implementation contracts may contain significant potential risk.
Metadata is frozen	metadata_frozen	It describes whether the metadata of this NFT is stored in IPFS, AR, generated by contract, or other decentralized way. "1" means true; "0" means false; "Null" means unknown.	When "is_open_source": "0", it will return "null".
Can burn others	privileged_burn: { value:	It describes whether the NFT owner can burn others NFT. **(1)value** The **"value"** describes the status of the risk. **null:** the contract is not open source or there is a proxy, it is not possible to detect whether the risk exists. **-1:** the risk is detected but the ownership give up. If the detection of a code vulnerability, it can also be considered risk-free. **0:** the risk is not detected. **1:** the risk is detected, and the owner address is a common address (EOA), then it can be said that there is a clear risk. **2:** The risk is detected, but the owner address is a contract address, the	Privileged_burn means th the owner can burn others

NFT	owner_address: owner_type: }	risk is not significant. **3:** The risk is detected, but the owner address is not detectable / or an array. **(2)owner_address** Owner_address describes the owner address. null: the owner address cannot be fetched. **(3)owner_type** "**blackhole**" : the owner is a blackhole address. **"contract" :** the owner is a contract. "**eoa**" : the owner is a common address (eoa). "**multi-address"**: the owner is an array/list. **null**: the address is not detected.	NFTs directly through the method.

Can transfer NFT without approval (sleep mint)	transfer_without_appr
	oval:{
	value: owner_address:
	owner_type:
	}
		It describes whether the NFT owner can transfer NFT without approval.
		Other contents are the same as above.
			Transfer_without_approva
			generally means the scammer does not need to get approvals to transfer another address's NFT.
			One typical example is sleep_minting.
			Sleep_minting means tha the scammer will first add the NFT to a well-known wallet address and then retrieve the NFT. After the value of the NFT has appreciated , it will be put back on the market.

Privileged Minting	privileged_minting: { value: owner_address: owner_type }	It describes whether the NFT contract has minting methods which can only be triggered by an address with special privileges. **Other contents are the same as above.**	Some minting methods ca only be triggered by an address with special privileges. Generally speaking, these are usual for the owner to mint.

Selfdestruct	self_destruct: { value: owner_address: owner_type }	It describes whether this NFT contract can self destruct. **Other contents are the same as above.**	When the self-destruct function is triggered, this contract will be destroyed all functions will be unavailable, and all relate assets will be erased.
Approval Restriction	restricted_approval	It describes whether the NFT contract can restrict the approval, resulting in NFT can not be traded on the NFT DEX. "1" means true; "0" means false; "Null" means unknown.	If this risk exists, it means that users will not be able to trade the NFT on the exchange and only privileged users in the whitelist will be able to trade normally.
Oversupply Minting	oversupply_minting	It describes whether this NFT owner can bypass the maximum amount of minting specified in the contract, and continue to mint NFTs beyond this limit. "1" means true; "0" means false; "Null" means unknown.	Oversupply minting refers to the existence of a speci mint method in the NFT contract — the owner can bypass the maximum amount of minting specifie in the contract, and continue to mint NFTs beyond this limit.

Sample Response

Response for a successful request:

```
{
  "code": 1,
  "message": "string",
  "result": {
    "average_price_24h": 0,
    "create_block_number": 0,
    "creator_address": "string",
    "discord_url": "string",
    "github_url": "string",
    "highest_price": 0,
    "lowest_price_24h": 0,
    "medium_url": "string",
    "nft_address": "string",
    "nft_description": "string",
    "nft_erc": "string",
    "nft_items": 0,
    "nft_name": "string",
    "nft_owner_number": 0,
    "nft_symbol": "string",
    "nft_verified": 1,
    "sales_24h": 0,
    "same_nfts": [
            {
                "symbol": "CJWJ",
                "createBlockHeight": 28501671,
                "ownerCount": 2,
                "contractAddress": "0xfb29f518cfca87a2c0dc562a9d9f25829fa53c3e",
                "fullName": "CJWJTOKEN"
            },
    ],
    "telegram_url": "string",
    "total_volume": 0,
    "traded_volume_24h": 0,
    "trust_list": 1,
    "twitter_url": "string",
    "website_url": "string",
    "nft_open_source":1,
    "nft_proxy":0,
    "privileged_burn": {
    value:0,
    owner_address: null
    owner_type: null
    }
    "transfer_without_approval": {
    value:0,
    owner_address: null
    owner_type: null
    }
    "privileged_minting": {
    value:0,
    owner_address: null
```

```
    owner_type: null
    }
    "self_destruct": {
    value:0,
    owner_address: null
    owner_type: null
    }
    "restricted_approval":0,
    "oversupply_minting":0,

  }
}
```

Code

Code

API License Agreement

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dApp Security Info API

GET https://api.gopluslabs.io/api/v1/dapp_security?url=

Parameters

No parameters

Responses

Method: GET

URL: https://api.gopluslabs.io/api/v1/dapp_security?url=

example: https://api.gopluslabs.io/api/v1/dapp_security?url=https://for.tube

Parameters

Parameters	Type	Required	Description
url	String	True	Url or domain

Request Headers

Parameters	Type	Required	Description
Authorization	String	False	Carrying Token obtained through Get Access Token

Response Parameters

Security items	Parameter	Description	Notice
dApp Project Name	project_name	It describes the dApp project name.	
dApp Url	url	It describes the dApp's website link.	
Contract Security Info	"contracts_security": [{"chain_id":56, "contracts": [{"contract_address": "0x744aF9cBb7606BB040f6FBf1c0a0B0dcBA6385E5", "is_open_source": 1, "malicious_contract":1, "malicious_behavior": [], “deployment_time”: "creator_address": "0xb6a70e26be27cda6ec4bf8e0df4a49ebc2	It describes the security information for this dApp's contracts. **The info includes:** (1) **"chain_id"** describes the chains that contracts are deployed on; "1" means Ethereum; "25" means Cronos; "56" means BSC; "128" means HECO; "137" means Polygon; "250" means Fantom; "42161" means Arbitrum; "43114" means Avalanche. (2) **"contract_address"** describes the dAap's contract address. (3) **"is_open_source"** describes whether this contract is open source. "1" means true; "0" means false. (4) **"malicious_contract"** describes whether the address is a suspected malicious contract. "1" means true; "0" means that we have not found malicious behavior of this contract. (5)"**malicious_behavior**" describes specific	"malicious_contract" and "malicious_creator" return "0" does not mean the address is completely safe. Maybe we just haven found its malicious behavior.

	6f087b", "malicious_creator":1, "malicious_creator_behavior":[], }] }]	malicious behaviors of the contract. (6) "**deployment_time**" describes the deployed time of the contract. **The value is presented as a timestamp.** Example: "deployed_time": 1626578345 (7) "**creator_address**" describes the creator address of the contract. (8) **"malicious_creator"** describes whether the creator is a suspected malicious address. "1" means true; "0" means that we have not found malicious behavior of this address. (9)"**malicious_creator_behavior**" describes specific malicious behaviors of the contract creator.	
is_audit	is_audit	It describes whether the dApp was audited by a reputable audit firm. "1" means true; "0" means that we have not found audit information for this dApp .	Return "0" does not mean the dApp was not audited. Maybe w just haven't found auc information for this dApp yet.
Audit Info	"audit_info": [{"audit_time": "2021.03.26" ,"audit_link": "https://for.tube/PeckSh	It describes the audit information of the dpp. **The info includes:** (1) "audit_time" describes the time shown in the latest audit report.	When the dApp was not audited, ("is_audit"=0), it will return "null".If there ai

	ield-Audit-Report-ForTubeV3-v1.0.pdf","audit_firm": "PeckShield",}]	(2) "audit_link" describes the website link of the audit report. (3) "audit_firm" describes the firm that audited the dApp.	multiple audit reports, the information of the latest audit report is displayed.
Trust List	trust_list	It describes whether the dapp is a famous and trustworthy one. "1" means true; "0" means that this dapp is not yet in our trusted list.	(1) Only "trust_list": "1 means it is a famous and trustworthy dapp. (2) "0" return doesn't mean it is risky.

Sample Response

Response for a successful request:

```
{
  "code": 1,
  "message": "ok",
  "result": {
    "project_name": "DALAL",
    "url": "https://dalal.eth.link",
    "trust_list": 0,
    "is_audit": 0,
    "audit_info": [
      {
        "audit_time":"2021.10.19",
        "audit_link":"https://www.Certik.com/projects/microverse",
        "audit_firm":"Certik"
      }
    ],
    "contracts_security": [
      {
        "chain_id": 56,
        "contracts": [
          {
            "contract_address": "0x307b7ce5ddca26a8ed63cf75cacab2539c7e551e",
            "is_open_source": 1,
            "creator_address": "0xc0204db6798e944c4e8bbf5e223a073cb4ad2859",
            "malicious_contract": 0,
            "malicious_behavior":[],
            "deployment_time": 1615400768,
            "malicious_creator": 0,
            "malicious_creator_behavior":[],
          }
        ]
      },
      {

        "chain_id": 137,
        "contracts": [
          {
            "contract_address": "0x307b7ce5ddca26a8ed63cf75cacab2539c7e551e",
            "is_open_source": 1,
            "creator_address": "0xc0204db6798e944c4e8bbf5e223a073cb4ad2859",
            "malicious_contract": 0,
            "malicious_behavior":[],
            "deployment_time": 1615400768,
            "malicious_creator": 0,
            "malicious_creator_behavior":[],
          }
        ]
      }
    ]
  }
}
```

Code

Code

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Change Logs

02/21/2023

New Feature	Description	Location	Importance
New parameter: trust_list	It describes whether the dapp is a famous and trustworthy one.	https://docs.goplusla bs.io/reference/dapp -security-info-api	High: This parameter is highly relevant to malicious functions. Please make sure you access to it.

01/12/2023

V1.0.4

New Feature	Description	Location	Importance
Support Cronos chain, including many dApps on Cronos chain	GoPlus dApp Security Info API supports the Cronos chain (chain_id:25) and includes the major dApps on Cronos chain, such as VVS, Tectonic, Ferro, etc.	https://docs.gopluslabs.i o/reference/dapp-security-info-api	Low: The Feature has been automatically upgraded, you don't need to change anything.

09/23/2022

V1.0.3

New Feature	Description	Location	Importance
Algorithm optimization: "contracts_security": []	New items: (5)"**malicious_behavior**" describes specific malicious behaviors of the contract. (9)"**malicious_creator_behavior**" describes specific malicious behaviors of the contract creator.	https://docs.gopluslabs.io/reference/dapp-security-info-api	Low: The algorithm has been automatically upgraded, you don't need to change anything.

Phishing Site Detection API

> Method: GET
>
> URL: https://api.gopluslabs.io/api/v1/phishing_site?url=
>
> Example: https://api.gopluslabs.io/api/v1/phishing_site?url=https://xn--cm-68s.cc/

Parameters

Parameters	Type	Required	Description
url	String	TRUE	Url

Request Headers

Parameters	Type	Required	Description
Authorization	String	FALSE	Carrying Token obtained through Get AccessToken

Response Parameters

Parameter	Description
phishing_site	It means whether the website is a phishing site. "1" means true; "0" means that we have not found malicious behavior of this website.

Sample Response

Response to a successful request:

```
{
    "code": 1,
    "message": "OK",
    "result": {
        "phishing_site": 1
    }
}
```


Code

Code

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Access Token

POST https://api.gopluslabs.io/api/v1/token

Parameters

No parameters

Responses

Method: POST

URL: https://api.gopluslabs.io/api/v1/token

Content-Type: multipart/form-data or application/json

Parameters:

Parameters	Type	Required	Description
app_key	string	True	App key
time	int	True	Quest timestamp (Secon
sign	string	True	Signature

Sign Method

Concatenate app_key, time, app_secret in turn, and do sha1().

Example

app_key = mBOMg20QW11BbtyH4Zh0

time = 1647847498

app_secret = V6aRfxlPJwN3ViJSIFSCdxPvneajuJsh

sign = sha1(mBOMg20QW11BbtyH4Zh01647847498V6aRfxlPJwN3ViJSIFSCdxPvneajuJsh)

= 7293d385b9225b3c3f232b76ba97255d0e21063e

Response Example

Response for a successful request:

```
{
 "code" : 1,
 "message" : "OK",
 "result" : {
  "access_token" : "Bearer 6|OgThu2jAjFJlXpBBjMWICsBpssyUFNbY5745uosS",
  "expires_in" : 7200
 }
}
```

Parameters

Parameter	Description
access_token	API call credential
expires_in	The time to expiration of the API call credential (access_token), in seconds.

Error Code

Code

Code

Code	Description
1	Complete data prepared
2	Partial data obtained. The complete data can b requested again in about 15 seconds.
2004	Contract address format error!
2018	ChainID not supported
2020	Non-contract address
2021	No info for this contract
2026	dApp not found
2027	ABI not found
2028	The ABI not support parsing
4010	App_key not exist
4011	Signature expiration (the same request parameters cannot be requested more than once)
4012	Wrong Signature
4023	Access token not found
4029	Request limit reached
5000	System error
5006	Param error!

Support

Rate Limits

Our API is free.

The Rate Limit is 30 calls/minute.

If you require a higher limit than the available plans, please contact us to apply for access token.

Contact us for help

Our official Email is **service@gopluslabs.io**Please email us. Beware of **phishing attempts** and emails **impersonating the team.**

API License Agreement

Last Updated | November 17,2022

This API License Agreement (this "Agreement") is a binding contract between you ("you" or "your") and Tops Labs Ltd ("Company," "we," or "us"). This Agreement governs your access to and use of the GoPlus Security application programming interface.BY ACCESSING OR USING THE API, YOU (A) ACKNOWLEDGE THAT YOU HAVE READ AND UNDERSTAND THIS AGREEMENT; (B) REPRESENT AND WARRANT THAT YOU HAVE THE RIGHT, POWER, AND AUTHORITY TO ENTER INTO THIS AGREEMENT; AND (C) ACCEPT THIS AGREEMENT AND AGREE THAT YOU ARE LEGALLY BOUND BY ITS TERMS. IF YOU DO NOT ACCEPT THESE TERMS, YOU MAY NOT ACCESS OR USE THE API.

1. Definitions.

- (a) "**API**" means the GoPlus Security application programming interface and any API Documentation or other API materials made available by Company on its website https://gopluslabs.io/.
- (b) "**API Documentation**" means the API documentation described at https://docs.gopluslabs.io/ from time to time.
- (c) "**API Key**" means the security key Company makes available for you to access the API.
- (d) "**Company Marks**" means Company's proprietary trademarks, trade names, branding, or logos made available for use in connection with the API pursuant to this Agreement.
- (e) "**Company Offering**" means Company's operating system/software described at https://gopluslabs.io/ the technology and application software made available by Company on a hosted basis as listed and described at https://gopluslabs.io/.
- (f) "**Your Applications**" means any applications developed by you to interact with the API.

2. License Grant[s]. Subject to and conditioned on your compliance with all terms and conditions set forth in this Agreement, we hereby grant you irrevocable, non-exclusive, royalty-free, transferable, sublicensable license during the term of the Agreement.to use the API and display certain Company Marks in compliance with usage guidelines that we may specify from time to time solely in connection with the use of the API and the Applications. You may not share your API Key with any third party, must keep your API Key and all log-in information secure, and must use the API Key as your sole means of accessing the API. Your API Key may be revoked at any time by us.

3. Attribution. Except for personal usage, Your Application should source attribution via a backlink or a mention that Your Application is “Powered by GoPlus Security”.

4. Your Applications. You agree to monitor the use of Your Applications for any activity that violates applicable laws, rules, and regulations or any terms and conditions of this Agreement, including any fraudulent, inappropriate, or potentially harmful behavior, and promptly restrict any offending users of Your Applications from further use of Your Applications. You agree to provide a resource for users of Your Applications to report abuse of Your Applications. As between you and us, you are responsible for all acts and omissions of your end users in connection with Your Application and their use of the API, if any. You agree that you are solely responsible for posting any privacy notices and obtaining any consents from your end users required under applicable laws, rules, and regulations for their use of Your Applications. [All use by you of the Company Marks, if any, will comply with any usage guidelines that we may specify from time to time. You agree that your use of the Company Marks in connection with this Agreement will not create any right, title, or interest in or to the Company Marks in favor of you, and all goodwill associated with the use of the Company Marks will inure to the benefit of Company.]

5. Display of GoPlus Logo. You agree that in using our services, you shall display our Company Mark, specifically the GoPlus logo with “Powered by GoPlus” expression. In any situation shall you use our API services and failed to display our logo, we reserve the right to terminate this Agreement and sue for any possible loss. You are aware that GoPlus will only provide API results. We do not suggest any modification to our API results, nor will we be responsible for any of such modifications in front-end or back-end.

6. No Support; Updates. This Agreement does not entitle you to any support for the API. You acknowledge that we may update or modify the API from time to time and at our sole discretion (in each instance, an "Update"), and may require you to obtain and use the most recent version of the API. Updates may adversely affect how Your Applications communicate with the Company Offering. You are required to make any changes to the Applications that are required for integration as a result of such Update at your sole cost and expense. Your continued use of the API following an Update constitutes binding acceptance of the Update.

7. No Fees. You acknowledge and agree that no license fees or other payments will be due under this Agreement in exchange for the rights granted under this Agreement. You acknowledge and agree that this fee arrangement is made in consideration of the mutual covenants set forth in this agreement, including, without limitation, the disclaimers, exclusions, and limitations of liability set forth herein. Notwithstanding the foregoing, we reserve the right to start charging for access to and use of the API at any time.

8. Collection and Use of Your Information. We may collect certain information through the API or the Licensor Offering about you or any of your employees, contractors, or agents. By accessing, using, and providing information to or through the API or the Company Offering, you consent to all actions taken by us with respect to your information in compliance with the then-current version of our privacy policy and data protection requirements, available at [https://gopluslabs.io/].

9. Intellectual Property Ownership. You acknowledge that, as between you and us, (a) we own all right, title, and interest, including all intellectual property rights, in and to the API and the Company Offering and the Company Marks and (b) you own all right, title, and interest, including all intellectual property rights, in and to Your Applications, excluding the aforementioned rights in Section 8(a).You will promptly notify us if you become aware of any infringement of any intellectual property rights in the API and Company Marks and will fully cooperate with us, in any legal action taken by us to enforce our intellectual property rights.

10. Disclaimer of Warranties. THE API AND COMPANY MARKS ARE PROVIDED "AS IS" AND COMPANY SPECIFICALLY DISCLAIMS ALL WARRANTIES, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE. COMPANY SPECIFICALLY DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT, AND ALL WARRANTIES ARISING FROM COURSE OF DEALING, USAGE, OR TRADE PRACTICE. COMPANY MAKES NO WARRANTY OF ANY KIND THAT THE API OR COMPANY TRADEMARKS, OR ANY PRODUCTS OR RESULTS OF THE USE THEREOF, WILL MEET YOUR OR ANY OTHER PERSON'S REQUIREMENTS, OPERATE WITHOUT INTERRUPTION, ACHIEVE ANY INTENDED RESULT, BE COMPATIBLE OR WORK WITH ANY OF YOUR OR ANY THIRD PARTY'S SOFTWARE, SYSTEM OR OTHER SERVICES, OR BE SECURE, ACCURATE, COMPLETE, FREE OF HARMFUL CODE, OR ERROR-FREE, OR THAT ANY ERRORS OR DEFECTS CAN OR WILL BE CORRECTED.

11. Indemnification. You agree to indemnify, defend, and hold harmless Company and its officers, directors, employees, agents, affiliates, successors, and assigns from and against any and all losses, damages, liabilities, deficiencies, claims, actions, judgments, settlements, interest, awards, penalties, fines, costs, or expenses of whatever kind, including [reasonable] attorneys' fees, arising from or relating to (a) your use or misuse of the API [or Company Trademarks], (b) your breach of this Agreement, and (c) Your Applications, including any end user's use thereof. In the event we seek indemnification or defense from you under this provision, we will promptly notify you in writing of the claim(s) brought against us for which we seek indemnification or defense. We reserve the right, at our option and in our sole discretion, to assume full control of the defense of claims with legal counsel of our choice. You may not enter into any third-party agreement that would, in any manner whatsoever, constitute an admission of fault by us or bind us in any manner, without our prior written consent. In the event we assume control of the defense of such claim, we will not settle any such claim requiring payment from you without your prior written approval.

12. Limitations of Liability. TO THE FULLEST EXTENT PERMITTED UNDER APPLICABLE LAW, IN NO EVENT WILL WE BE LIABLE TO YOU OR TO ANY THIRD PARTY UNDER ANY TORT, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER LEGAL OR EQUITABLE THEORY FOR (a) ANY LOST PROFITS, LOST OR CORRUPTED DATA, COMPUTER FAILURE OR MALFUNCTION, INTERRUPTION OF BUSINESS, OR OTHER SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING OUT OF THE USE OR INABILITY TO USE THE API; OR (b) ANY DAMAGES, IN THE AGGREGATE, IN EXCESS OF FIFTY DOLLARS EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES AND WHETHER OR NOT SUCH LOSS OR DAMAGES ARE FORESEEABLE OR COMPANY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

13. Term and Termination. The term of this Agreement commences when you execute this Agreement and will continue in effect until terminated as set forth in this Section. We may immediately terminate or suspend this Agreement, any rights granted herein, and/or your licenses under this Agreement, in our sole discretion at any time and for any reason, by providing notice to you or revoking access to the API and Company Marks. In addition, this Agreement will terminate immediately and automatically without any notice if you violate any of the terms and conditions of this Agreement. You may terminate this Agreement at any time by ceasing your access to and use of the API and Company Trademarks.

14. Modifications. You acknowledge and agree that we have the right, in our sole discretion, to modify this Agreement from time to time. You will be notified of modifications through notifications or posts on https://docs.gopluslabs.io/ or direct email communication from us. You will be responsible for reviewing and becoming familiar with any such modifications.

15. Governing Law and Jurisdiction. This agreement is governed by and construed in accordance with the internal laws of the State of [STATE] without giving effect to any choice of conflict of law provision or rule that would require or permit the application of the laws of any jurisdiction other than those of the State of [STATE]. [Except as otherwise set forth herein,] any legal suit, action, or proceeding arising out of [or related to] this agreement or the licenses granted hereunder will be instituted [exclusively] in the federal courts of the United States or the courts of the State of [STATE] in each case located in the city of [CITY] and County of [COUNTY], and each party irrevocably submits to the [exclusive] jurisdiction of such courts in any such suit, action, or proceeding.

16. Miscellaneous. This Agreement constitutes the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior and contemporaneous understandings, agreements, representations, and warranties, both written and oral, with respect to such subject matter. his Agreement is personal to you and may not be assigned or transferred for any reason whatsoever without our prior written consent and any action or conduct in violation of the foregoing will be void and without effect. We expressly reserve the right to assign this Agreement and to delegate any of its obligations hereunder.