1 2 3 4 5	QUINN EMANUEL URQUHART & SULLIVAN, Michael E. Liftik (CA Bar No. 232430) Sarah Heaton Concannon (pro hac vice) 1300 I Street, Suite 900 Washington, D.C. 20005 Telephone: (202) 538-8000 michaelliftik@quinnemanuel.com sarahconcannon@quinnemanuel.com	LLP
6	Emily C. Kapur (CA Bar No. 306724)	
7	555 Twin Dolphin Dr., 5th Fl. Redwood Shores, California 94065	
8	Telephone: (650) 801-5000	
9	emilykapur@quinnemanuel.com	
10	Attorneys for Defendants Fei Labs Inc., Joseph Santoro, Brianna Montgomery, and	
11	Sebastian Delgado	
12	SUPEDIOD COUDT OF THE ST	CATE OF CALIFORNIA
13	SUPERIOR COURT OF THE STATE OF CALIFORNIA COUNTY OF SAN FRANCISCO	
14		
15	JONATHAN SHOMRONI, Individually and on behalf of all others similarly situated,	Case No. CGC-22-598995
16	Plaintiff,	DECLARATION OF EMILY C. KAPUR
17		
18	V.	Date: June 22, 2023 Time: 2:30 pm
19	FEI LABS INC., a Delaware Corporation, JOSEPH SANTORO, an Individual,	Dept: 304 Judge: Hon. Ethan P. Schulman
20	BRIANNA MONTGOMERY, an Individual, SEBASTIAN DELGADO, an Individual, and	
21	DOES 1-10,	
22	Defendants.	
23		
24		
25		
26		
27		
28		

3

4

5 6

7 8

10

11

9

12 13

14

15

16 17

18 19

20

21 22

23

24

25 26

27 28 I, Emily C. Kapur, declare as follows:

- I am a partner at Quinn, Emanuel, Urquhart, & Sullivan LLP. I have personal knowledge of the matters set forth in this declaration, and if called as a witness I would testify competently to those matters.
- 2. I submit this declaration in support of Defendants' Notice of Motion and Renewed Motion to Temporarily Seal Portions of the Supplemental Agreement to the Stipulation of Settlement filed concurrently herewith.
- A true and correct redacted copy of the parties' Supplemental Agreement to the 3. Stipulation of Settlement is attached hereto as **Exhibit A**.
- 4. The risk that an individual or group may be able to manipulate the parties' Settlement is relatively heightened in the current context, where participation in the Genesis Event through digital wallet addresses is public, as compared to a situation involving traditional financial instruments held in and transacted through more traditional financial accounts.
- 5. Digital wallets that transact on the Ethereum blockchain share some similarities with traditional individual financial accounts, but additional characteristics distinguish them. Similar to how a traditional brokerage or bank account might allow an individual to store and transact in fiat currency, stocks, or bonds, digital wallets allow an individual or entity to send and receive cryptocurrency, and provide access to cryptocurrency stored on the blockchain. (See Investopedia, "Cryptocurrency Wallet: What Is Is, How It Works, Types, Security" accessible at https://www.investopedia.com/terms/b/bitcoin-wallet.asp, a true and correct copy of which is attached hereto as Exhibit B; see also Business Insider, "What is a crypto wallet? Understanding the software that allows you to store and transfer crypto securely" accessible at https://www.businessinsider.com/personal-finance/crypto-wallet, a true and correct copy of which is attached hereto as Exhibit C.)
- 6. Many digital wallets, however, lack typical privacy protections of traditional financial accounts. Bank and brokerage account numbers generally are not publicly available and cannot be employed by members of the public to trace the transactions of or to communicate with an account holder. Conversely, a digital wallet's previous transactions and current holdings are

27

28

generally publicly accessible on the blockchain. For instance, transactions that take place on the Ethereum blockchain can be viewed through a free tool called Etherscan. (*See* Cointelegraph, "What is Etherscan, and how does it work?" accessible at https://cointelegraph.com/news/what-isetherscan-and-how-does-it-work, a true and correct copy of which is attached hereto as **Exhibit D** ["Etherscan is the most trusted tool for navigating through all the public data on the Ethereum blockchain[. It's] data includes transaction data, wallet addresses, smart contracts and much more. . . . Etherscan allows users to view the assets held on any public Ethereum wallet address. Using Etherscan, enter any Ethereum address into the search box to see the current balance and transaction history of the wallet under consideration."].)

- 7. Additionally, a digital wallet address can be used to communicate directly with the holder of that wallet without any further information. (*See* Supplemental Declaration of Simpluris In Support of Plaintiffs' Motion for Preliminary Approval of Class Action Settlement [describing how NFTs will be used to communicate directly with all potential class members across the Ethereum blockchain].)
- 8. Accordingly, while the individual owner of any given digital wallet address may remain anonymous, such an owner can still be identified publicly by their digital wallet address. With that information alone, it is possible both to (a) identify transactions in which that individual has previously engaged and that individual's present holdings; and (b) communicate with that individual. Furthermore, the ownership of some digital wallet addresses can be publicly determined, for instance using the Ethereum Name Service. (See CoinDesk, "What Is the Ethereum Name Service? For" How **ENS** Works and What It's Used accessible at https://www.coindesk.com/learn/what-is-the-ethereum-name-service-how-ens-works-and-what-<u>its-used-for/</u>, a true and correct copy of which is attached hereto as **Exhibit E**.)
- 9. With respect to the Genesis Event specifically, details of that transaction and the wallets that participated in it are readily available on the Ethereum blockchain and can be viewed using a standard browser window. (See Etherscan, "0xc9851f374701f76024c1f44f7166e0ef8a99456750463dc9d7b426e6359b9b20 Transaction Details," accessible at

1	https://etherscan.io/tx/0xc9851f374701f76024c1f44f7166e0ef8a99456750463dc9d7b426e6359b9			
2	b20, a true and correct copy of which is attached hereto as Exhibit F [showing details of the Genesis			
3	Event, including that the transaction interacted with all those wallets in the "Fei Protocol: Genesis			
4	Group"]; Etherscan, "Fei Protocol: Genesis Group," accessible at			
5	$\underline{https://etherscan.io/txs?a=0xbffb152b9392e38cddc275d818a3db7fe364596b\&p=1129}, \ a \ true \ and \ a \ a \ a \ a \ a \ a \ a \ a \ a \ $			
6	correct copy of which is attached hereto as $\mathbf{Exhibit} \ \mathbf{G}$ [detailing the individual transfers involved in			
7	the Genesis Transaction, including those wallets that participated].) As a result, strategic conduct			
8	and coordination between a small group of participants is possible due to the unique nature of the			
9	technology involved that would not be possible between holders of traditional financial accounts.			
10	I declare under penalty of perjury under the laws of the State of California that the foregoing is true			
11	and correct.			
12				
13				
14	Dated: May 30, 2023			
1.5				
15	/s/ Emily C. Kapur			
16	/s/ Emily C. Kapur Emily C. Kapur			
16 17				
16 17 18				
16 17 18 19				
16 17 18				
16 17 18 19 20				
16 17 18 19 20 21				
16 17 18 19 20 21 22				
16 17 18 19 20 21 22 23				
16 17 18 19 20 21 22 23 24				
16 17 18 19 20 21 22 23 24 25				
16 17 18 19 20 21 22 23 24 25 26				

EXHIBIT A

Public - Redacts materials from conditionally sealed record

<u>STIPULATION OF SETTLEMENT – SUPPLEMENTAL AGREEMENT</u>

[CONFIDENTIAL - NOT TO BE DISCLOSED PUBLICLY EXCEPT AS OTHERWISE PROVIDED]

Plaintiff Jonathan Shomroni ("Plaintiff"), on behalf of himself and other members of the Class, by and through their counsel; and defendants Fei Labs Inc. ("Fei Labs"), Joseph Santoro, Sebastian Delgado, and Brianna Montgomery ("Defendants" and, as to the individuals, the "Individual Defendants"), by and through their counsel, hereby enter into this confidential supplemental agreement (the "Supplemental Agreement") with respect to the subject matter identified in ¶ 8.3 of the Stipulation of Settlement dated March 30th 2023 (the "Stipulation"). All capitalized terms not otherwise defined shall have the meanings ascribed to them in Section III.1 of the Stipulation.

IT IS HEREBY AGREED AS FOLLOWS:

1. Pt	ursuant to and in accordance	with the provisions of \P 8.3 of t	the Stipulation
Defendants shall	have the right ("Option") to v	withdraw from and terminate the S	ettlement in its
entirety and to re	ender the Stipulation null and v	oid if those Persons who properly	elect to exclude
themselves from	the Settlement ("Opt-Out Plain	tiffs") in the aggregate,	
			(the "Opt-Ou
Threshold").			

2. Plaintiff's counsel shall direct the Claims Administrator to provide copies of all requests for exclusion from the Class received by the Claims Administrator to Defendants' Counsel as they are received, and no later than five (5) calendar days after the deadline to submit requests for exclusion from the Class.

- 3. Whether the Opt-Out Threshold has been exceeded shall be determined based on Ethereum wallet addresses disclosed by the Opt-Out Plaintiffs in requests for exclusion, and pursuant to an analysis by Defendants executed in good faith and shared with Plaintiff. Defendants shall provide notice to Plaintiff's counsel in writing within fourteen (14) calendar days following Defendants' receipt of all requests for exclusion from the Claims Administrator if Defendants determine the Opt-Out Threshold has been exceeded. If Defendants do not provide this notice within fourteen (14) calendar days, Defendants may not exercise the Option.
- 4. If there is a dispute between the Plaintiff and Defendants as to whether the Opt-Out Threshold has been met, the parties shall present such dispute to Michelle Yoshida of Phillips ADR for resolution prior to the Settlement Hearing.
- 5. Plaintiff's Counsel shall have the right but not the obligation to communicate with any Persons that submit requests for exclusion and, if requests for exclusion are withdrawn such that the Opt-Out Threshold is no longer met, Plaintiff's Counsel shall immediately inform Defendant's Counsel.
- 6. The Option to terminate under Paragraph 1 of this Supplemental Agreement may only be exercised by Defendants within fourteen (14) calendar days following the issue of notice under Paragraph 3 above. If there a dispute as set forth in Paragraph 4 above, the period for exercising the Option shall be extended by the period during which the dispute is being resolved. Notwithstanding the preceding sentences, in no event shall Defendants exercise the Option later than five (5) calendar days prior to the reply deadline for Plaintiff's Motion for Final Approval as set by the Court in the Preliminary Approval Order. Defendants shall exercise the Option by notifying Plaintiff's Counsel in writing of their decision to exercise the Option to terminate. Any election by Defendants to exercise the Option shall be final and irrevocable unless sufficient

requests for exclusion are withdrawn such that the Opt-Out Threshold is no longer met, prior to the Settlement Hearing, in which case the election of the Option to terminate will automatically become null and void and of no further effect.

7. Each counsel executing the Supplemental Agreement on behalf of any party hereto hereby warrants that he or she has the full authority to do so.

Agreed on behalf of Plaintiff and Plaintiff's counsel:		
Dated: 03/31/23	Sh	
	Jonathan Shomroni	
Dated:		
	The Restis Law Firm	
	William R. Restis, Esq.	
	225 Broadway, Ste 2220	
	San Diego, CA 92101 Telephone: (619) 270-8383	
	william@restislaw.com	
Dated:	AFN Law PLLC Angus Ni 506 2nd Ave, Suite 1400 Seattle, WA 98104	
	Telephone: (646) 453-7294	
	angus@afnlegal.com	
Dated:		
	HGT Law Hung Ta and Alex Hu 250 Park Avenue, 7th Floor New York, NY 10177 Telephone: (646) 453-7288 hta@hgtlaw.com	

Dated: Jonathan Shomroni Dated: March 31, 2023 The Restis Law Firm William R. Restis, Esq. 225 Broadway, Ste 2220 San Diego, CA 92101 Telephone: (619) 270-8383 william@restislaw.com Dated: March 31, 2023 AFN Law PLLC Angus Ni 506 2nd Ave, Suite 1400 Seattle, WA 98104 Telephone: (646) 453-7294 angus@afnlegal.com Dated: _____ HGT Law Hung Ta and Alex Hu 250 Park Avenue, 7th Floor New York, NY 10177 Telephone: (646) 453-7288 hta@hgtlaw.com

Agreed on behalf of Plaintiff and Plaintiff's counsel:

Agreed on behalf of Plaintiff and Plaintiff's counsel:	
Dated:	Jonathan Shomroni
Dated:	The Restis Law Firm William R. Restis, Esq. 225 Broadway, Ste 2220 San Diego, CA 92101 Telephone: (619) 270-8383 william@restislaw.com
Dated:	AFN Law PLLC Angus Ni 506 2nd Ave, Suite 1400 Seattle, WA 98104 Telephone: (646) 453-7294 angus@afnlegal.com
Dated: 3/30/2013	HGT Law Hung Ta and Alex Hu 250 Park Avenue, 7th Floor New York, NY 10177 Telephone: (646) 453-7288 hta@hgtlaw.com

Agreed on behalf of Defendants and Defendants' counsel:

Dated: _____

Joseph Santoro, on behalf of himself and as CEO of Fei Labs Inc.

Schastian Delgado

DocuSigned by:

Dated: _____3/31/2023

Sebastian Delgado

DocuSigned by:

Dated: 3/30/2023

Brianna Montgomery

Dated: 03/30/2023

Quinn Emanuel Urquhart & Sullivan LLP

Michael E. Liftik

Sarah Heaton Concannon 1300 I Street, Suite 900

Washington, D.C. 20005 Telephone: (202) 538-8000

michaelliftik@quinnemanuel.com sarahconcannon@quinnemanuel.com

Emily C. Kapur 555 Twin Dolphin Dr., 5th Fl. Redwood Shores, California 94065 Telephone: (650) 801-5000

emilykapur@quinnemanuel.com





BUYING & SELLING > CRYPTO WALLETS

Cryptocurrency Wallet: What It Is, How It Works, Types, Security

By JAKE FRANKENFIELD Updated May 27, 2022

Reviewed by AMILCAR CHAVARRIA

Fact checked by KATRINA MUNICHIELLO

What Is a Cryptocurrency Wallet?

A cryptocurrency wallet is an application that functions as a <u>wallet</u> for your cryptocurrency. It is called a wallet because it is used similarly to a wallet you put cash and cards in. Instead of holding these physical items, it stores the passkeys you use to sign for your cryptocurrency transactions and provides the interface that lets you access your crypto.

Modern cryptocurrency wallets make the blockchain accessible to everyone. When cryptocurrency was first introduced, sending cryptocurrency was a manual task that required entering long keys. Today, the software does most of it for you.

The first wallet was that of Bitcoin's developer, Satoshi Nakamoto. The second wallet belonged to Hal Finney, who corresponded with Nakamoto and reportedly was the first to run the Bitcoin client software wallet. Nakamoto sent him 10 bitcoin as a test, and the cryptocurrency craze began.

KEY TAKEAWAYS:

- A cryptocurrency wallet is a device or program that stores your cryptocurrency keys and allows you to access your coins.
- Wallets contain a public key (the wallet address) and your private keys needed to sign cryptocurrency transactions. Anyone who knows the



and levels of security.

• Many cryptocurrency wallets can be used to store key for different cryptocurrencies.



Click Play to Better Understand the Intricacies of Bitcoin Wallets

Understanding Cryptocurrency Wallets



the blockchain network for the cryptocurrency you're using.

Cryptocurrencies are not "stored" anywhere—they are bits of data stored in a database. These bits of data are scattered all over the database; the wallet finds all of the bits associated with your public address and sums up the amount for you in the app's interface.

Sending and receiving cryptocurrency is very easy using these applications. You can send or receive cryptocurrency from your wallet using various methods. Typically, you enter the recipient's wallet address, choose an amount to send, sign the transaction using your private key, add an amount to pay the transaction fee, and send it.

FAST FACT

Many wallets have integrated QR codes and near-field scanner technology that allows you to scan a code, select an amount, enter your key, select the transaction fee, and click send.

Receiving is even easier—the sender enters your address and goes through the same routine. You accept the payment, and the transaction is done.

Cryptocurrency Wallet Types

The are two main types of wallets, custodial and noncustodial. Custodial wallets are hosted by a third party that stores your keys for you. This could be a company that provides enterprise-level data security systems businesses use to preserve and secure data. Some <u>cryptocurrency exchanges</u> offer custodial wallets for their customers. Noncustodial wallets are wallets in which you take responsibility for securing your keys. This is the type that most cryptocurrency wallets on devices are.

There are two subcategories of wallets, <u>hot and cold</u>. A hot wallet has a connection to the internet or to a device that has a connection, and a <u>cold</u>



cold wallet.

So, you can have a noncustodial software hot wallet, a noncustodial hardware cold or hot wallet, or a custodial hardware cold wallet. These are the most common types, but you may also encounter other combinations.

Software Wallets

Software wallets include applications for desktops and mobile devices. These wallets are installed on a desktop or laptop computer and can access your cryptocurrency, make transactions, display your balance, and much more. Some software wallets also include additional functionality, such as exchange integration if you're using a wallet designed by a cryptocurrency exchange.

Many mobile wallets can facilitate quick payments in physical stores through near-field communication (NFC) or by scanning a QR code. Mobile wallets tend to be compatible with iOS or Android devices. Trezor, Electrum, and Mycelium are examples of wallets that you can use. Software wallets are generally hot wallets.

Warning: You use private keys to access your cryptocurrency. Anyone who has your private key can access your coins.

Hardware Wallets

Hardware wallets are the most popular type of wallet because you can store your private keys and remove them from your device. These devices resemble a USB drive, and modern hardware wallets have several features.

You can make a cryptocurrency transaction on your computer or device by plugging in the hardware wallet. Most of them can sign cryptocurrency transactions automatically without requiring you to enter the key, circumventing a hacker's ability to log your keypresses or record your screen.



wallets because they don't have an active connection until they are plugged in.



Important: Some new hardware wallets come with the ability to connect to your device through Bluetooth. Use these with caution because Bluetooth is a wireless signal that can be accessed by unwanted parties when it is turned on.

Paper Wallets

Early crypto users would write or type their keys on paper, which they called <u>paper wallets</u>. These evolved to include the keys and QR codes so wallets on mobile devices could scan them. However, paper wallets are easily damaged or lost, so many crypto owners do not use them anymore.

However, there is nothing wrong with using a paper wallet if you take measures to store it properly in a safe or deposit box and check on it once in a while to ensure it hasn't deteriorated.

Crypto Wallet Security

Wallet safety is essential, as cryptocurrencies are high-value targets for <u>hackers</u>. Some safeguards include encrypting the wallet with a strong password, using two-factor authentication for exchanges, and storing any large amounts you have offline.



Important: There have been many cases of malware disguised as wallets, so it is advisable to research carefully before deciding which one to use.

Seed Words

Most modern wallets generate a twelve-word mnemonic seed phrase. An example phrase could be "airport bedroom impression sample reception protection road shirt..." which seems random but is created and linked to your



anyone who finds them will be able to access your cryptocurrency.

Cryptocurrency Exchanges

Cryptocurrency exchanges have started offering custodial key storage for their users. However, you should use this service cautiously. Cryptocurrency exchanges are highly-prized targets for cybercriminals.

Additionally, if the cryptocurrency exchange goes out of business, there may be no guarantees that you'll get your cryptocurrency back. For example, Coinbase, a popular exchange, announced in its quarterly report to the Securities and Exchange Commission in May 2022 that: [1]

...custodially held crypto assets may be considered to be the property of a bankruptcy estate, in the event of a bankruptcy, the crypto assets we hold in custody on behalf of our customers could be subject to bankruptcy proceedings and such customers could be treated as our general unsecured creditors.

General unsecured creditors are lower in priority on the list of creditors in a bankruptcy proceeding. Therefore, if there are not enough <u>assets</u> to liquidate and meet financial requirements for higher priority creditors, it is possible to lose your crypto assets if your custodial wallet company declares bankruptcy.

The best cryptocurrency key security measures involve removing your keys from your wallet, placing them in a form of cold storage, and securing them in a vault, safe, or deposit box. The more steps it takes for you to access your cryptocurrency, the harder it is for a criminal to access them. This way, you ensure you don't lose your keys. It also ensures that someone you have entrusted with your keys doesn't lose them or deny you access to them.

Which Cryptocurrency Wallet Is Best?

There are various wallets you can choose from with many options. It's best to read as many reviews as possible to find one that fits your needs while ensuring



The <u>safest crypto wallet</u> has no connection on its own or to a device with internet access. It also should not deny you access to your crypto because the custodian has financial issues. Many so-called "safe" wallets have wireless connection technology that determined cybercriminals can access.

Do I Need a Wallet for Cryptocurrency?

Yes. You cannot access your cryptocurrency without your private keys and an interface that accesses a blockchain. All wallets can store keys, but only hot wallets can access the blockchain, so it's important to keep your keys off your hot wallet until you need them.

Investing in cryptocurrencies and other Initial Coin Offerings ("ICOs") is highly risky and speculative, and this article is not a recommendation by Investopedia or the writer to invest in cryptocurrencies or other ICOs. Since each individual's situation is unique, a qualified professional should always be consulted before making any financial decisions. Investopedia makes no representations or warranties as to the accuracy or timeliness of the information contained herein.

Personal Advice When You Need it Most

SPONSORE

If you're looking for a better way to <u>maximize your retirement income</u> while minimizing your investment taxes, Vanguard Personal Advisor Services® can help. Their advisors will work closely with you to build a customized financial plan. You'll also benefit from innovative service at a low cost, and ongoing access to advisors. Learn more about how you can <u>access personal financial</u> advice and start the conversation.

Paid non-client promotion.

ARTICLE SOURCES ▼

Take the Next Step to Invest

Advertiser Disclosure



A BANK OF AMERICA COMPANY

Merrill Edge	eToro
Get up to \$600 when you invest in a new Merrill Edge Self-Directed account	Interested in crypto? Get \$10, free, through eToro. eToro USA LLC; Investments are subject to market risk, including the possible loss of principal.
LEARN	LEARN
	Get up to \$600 when you invest in a new Merrill Edge Self-Directed account

Related Terms

Private Key: What It Is, How It Works, Best Ways to Store

A private key is a secret number that is used to send encrypted messages. Private keys are also used in cryptocurrency transactions. <u>more</u>

Cold Storage: What It Is, How It Works, Theft Protection

Cold wallets, a type of crypto wallet, are digital cryptocurrency storage on a platform not connected to the internet, which protects them from hackers. more

What Is a Paper Wallet? Definition and Role in Cryptocurrency

A paper wallet is an offline mechanism for storing bitcoins. The process involves printing the private keys and bitcoin addresses onto paper. <u>more</u>

Hot Wallet: Definition, Types, Examples, and Safety Tips

Hot wallets are used to conduct transactions in digital currencies. Learn how they work, if they're secure, and what you can do to secure your cryptocurrency. more

What Is a Digital Wallet?

A digital wallet is an application on an electronic device that stores payment information and allows you to securely make purchases without carrying cash or cards. more

What Is OpenSea?

TRADE







Partner Links

Seamlessly connect w/ the markets & your accounts on the award-winning E*TRADE Mobile app

Get a free personalized learning experience with TD Ameritrade.

Start making moves with your money. Invest w/ E*TRADE today!

Find yourself on solid ground. Find your Fidelity and apply today.

Related Articles



BITCOIN

What Are the Safest Ways To Store Bitcoin?

Woman Holds
Smartphone,
Analyzes Crypto
Investment Trading

CRYPTOCURRENCY

Hot Wallet vs. Cold Wallet



FINANCIAL LITERACY

What You Must Know Before Investing in Cryptocurrency









How to Buy
Bitcoin illustration

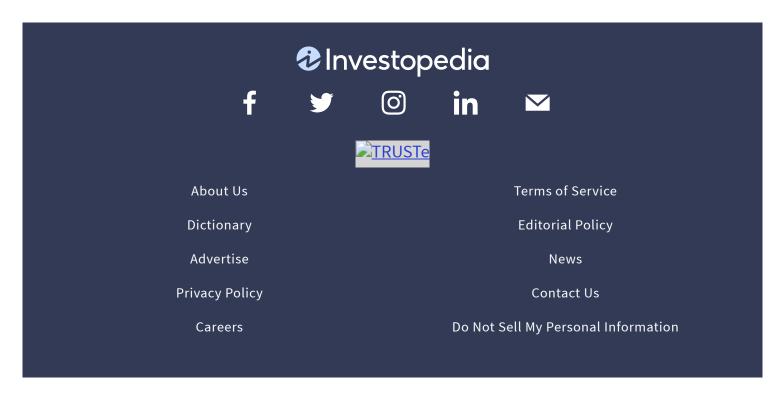
BITCOIN

How To Buy Bitcoin

gold Ethereum coin

CRYPTO WALLETS

How to Stake Ethereum





Investopedia is part of the **Dotdash Meredith** publishing family.



PERSONAL FINANCE



Advertiser Disclosure

< CRYPTOCURRENCY

What is a crypto wallet? Understanding the software that allows you to store and transfer crypto securely

Written by Brian Nibley; edited by Jasmine Suarez Updated Jul 26, 2022, 10:31 AM PDT





Each type of crypto wallet has its own use case depending on the goals of the user, although they all accomplish the same things. Alyssa Powell/Insider

Our experts answer readers' investing questions and write unbiased product reviews (here's how we assess investing products). Paid non-client promotion: In some cases, we receive a commission from our partners. Our opinions are always our own.

Jump to

Main content

Search

Account

- A crypto wallet is a device or program that allows you to transfer and store cryptocurrency.
- There are different types of crypto wallets, such as paper wallets, hardware wallets, and software wallets.
- A crypto wallet's security depends on how the private key is stored.

Jump to

Main content Search Account ninent crypto exchange FTX recently filed for bankruptcy, setting off a mpacting other exchanges and leading various cryptocurrency values

to plummet. Until the dust settles, proceed with extreme caution; it may be wiser to park your funds in a <u>high-yield savings account</u> until the crypto market stabilizes.

You can't fold up a bitcoin and put it in your wallet. Yet you can hold the keys to your crypto by using a crypto wallet of your own.

What is a crypto wallet?

Quick tip: Wallets have many public keys. This means that you can give out multiple different public addresses and use them to receive crypto to the same wallet.

The important part of a wallet — and the part where new users often find themselves getting into trouble — is the private key. A private key is like the key to a safe deposit box. Anyone who has access to the private key of a wallet can take control of the balance held there.

But unlike a safe deposit box, crypto users who hold their own private keys and make transactions using non-custodial wallets (i.e., a wallet not hosted by an exchange or other third-party) become their own bank.

Jump to

Main content

Search

Account

"It is similar to a bank account but the main difference is it is controlled by a key that only you control. You use this [private] key to initiate transactions, which is called 'signing,'" says Joel Dietz, founder of <u>Art Wallet</u> and contributing developer to MetaMask.

While the idea of crypto itself is still new to many people, crypto wallets themselves are designed to be user-friendly. Web wallets like MetaMask and desktop wallets like Electrum come with a graphical user interface (GUI) that is made to be as simple as possible.

Understanding how crypto wallets work

<u>Blockchain</u> is a public ledger that stores data in what's known as "blocks." These are records of all transactions, the balances held at any given address, and who holds the key to those balances. Crypto isn't stored "in" a wallet, per se. The coins exist on a blockchain and the wallet software allows you to interact with the balances held on that blockchain. The wallet itself stores addresses and allows their owners to move coins elsewhere while also letting others see the balance held at any given address.

Jump to

Main content
Search
Account

hen sending a crypto transaction, always make sure you're sending for a wallet of the same type of cryptocurrency. If you send Bitcoin coin Cash (BCH) address, for example, those funds will be lost "Most Crypto wallets allow users to send, receive, and store crypto. Some have a feature to buy and spend cryptocurrencies," says <u>Utsav Dar</u>, co-founder of <u>Incub8 Finance</u>.

"Certain crypto wallets have additional features like swapping between tokens, staking tokens for a fixed return paid out to users, as well as access to dApps (decentralized applications) built on various networks."

While each wallet has its own specific nuances, here are the general steps involved in sending or receiving funds using a crypto wallet:

- To **receive** funds, you need to retrieve an address (also known as a public key) from your wallet. Locate the "generate address" feature in your wallet, click it, then copy the alphanumeric address or QR code and share it with the person who wants to send you crypto.
- To **send** funds, you need the address of the receiving wallet. Locate the "send" feature in

 enter an address of the wallet you intend to send coins to. Select the

 to you'd like to send, and click "confirm." Consider sending a small test

 Main content

 Search
 Account

 I to miners in exchange for processing the transaction.

 Account

Sending money via QR codes or long strings of numbers and letters may seem strange at first. But after doing it a few times, the process becomes quite simple.

Types of crypto wallets

Crypto wallets fall under two general categories: software wallets and hardware wallets.

Software wallets are simply desktop programs or browser extensions that make it easy for people to send, receive, and store crypto. Hardware wallets serve a similar purpose but are physical devices that can be plugged into a computer.

Software wallets are sometimes called "hot" wallets because the funds are kept online. Hardware wallets keep private keys held offline or in "cold" storage.

Hardware wallets

Jump to

t is a small device that can store crypto offline. "A hardware wallet

Main content
Search
Account

Main content
Search
Account

Tappens on or your computer."

The typical hardware wallet costs around \$100, give or take. These tend to be slightly more complicated to use than software wallets.

Most hardware wallets interact with a computer in one of three ways:

- A web-based interface
- A company-created app
- A separate software wallet

Software wallets

A software wallet is a computer program or mobile app that holds private keys online. Software wallets are unique to each cryptocurrency while hardware wallets often

Currencies (more on these differences later).

Main content
Search
Account

Currencies (more on these differences later).

device," says Dar. "These may be connected to the internet, again making them less secure."

Quick tip: When using software wallets, be sure to create backups on a regular basis. If a problem occurs with your web browser or hard drive, you could lose the private keys to your wallet, resulting in permanent loss of funds.

The three main types of software wallets are:

• **Web-based wallets**, like MetaMask, which work as a browser extension and can send ETH transactions, making it easy for users to interact with things like decentralized applications and decentralized finance (DeFi) protocols

Jump to

Main content
Search
Account

 ${f ts}$, such as the Electrum wallet, that can be used on a desktop or laptop

s, such as the Blockchain.com wallet, that allow users to store crypto, send/receive transactions, and "sweep" the private keys of an existing wallet into the app

by scanning a QR code on their smartphones

Each type of crypto wallet has its own use case depending on the goals of the user, although they all accomplish the same things.

Quick tip: Paper wallets are another way to store your private keys. But the creation and use of paper wallets comes with a high risk of user error, and is too dangerous for storing any significant amount of crypto. It's generally advised to use other kinds of crypto wallets.

Pros and cons of crypto wallets

Pros	Cons
Self-ownership of money	User responsibility
Censorship-resistant transactions	Learning curve
Quick and easy access	Chance of making mistakes

Some pros of using non-custodial crypto wallets include:

Jump to

Main content

Search

Account

- **Self-ownership of money**. If you hold your own private keys, then that crypto belongs to you and only you. By comparison, money in a bank is technically property of the bank.
- The ability to send transactions to whomever you like, whenever you like.

 Decentralized cryptocurrencies are censorship-resistant because no one controls the network, making it hard for anyone to stop transactions.

Some cons of using crypto wallets include:

- **User responsibility**. Becoming your own bank means you have to assume 100% liability for anything that goes wrong.
- **Learning curve**. Using a crypto wallet requires a basic level of computer knowledge in addition to getting familiar with a new kind of financial ecosystem.

The bottom line

The answer to the question "what is a crypto wallet" is that it's like a crypto bank account that only you control. Software wallets are built for convenience while hardware wallets are built for security. To get started, you should research what wallet types work best for you. Research the options available to you, including cost and security.

Jump to

Main content

Search

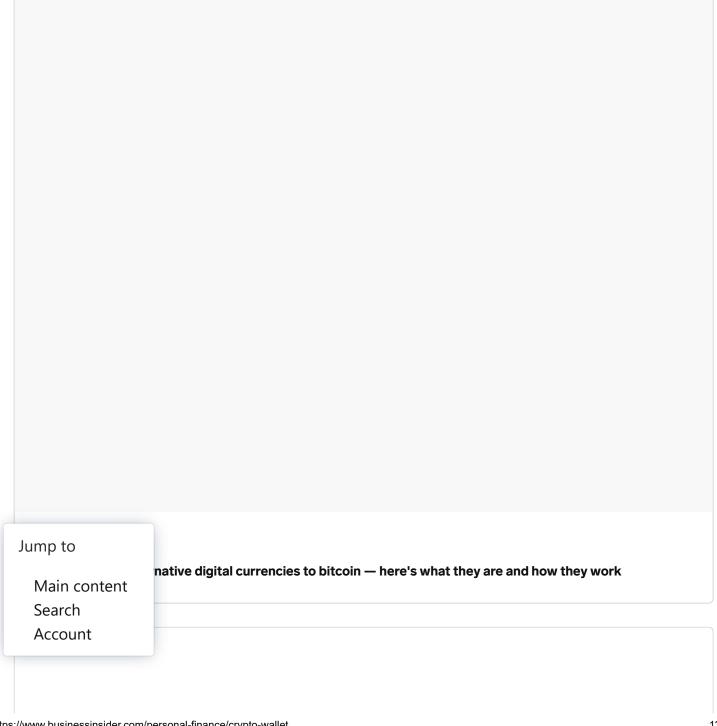
Account

Those interested in going a step further can invest in a hardware wallet since doing so is one of the best ways to take ownership of your own private keys. Learning to use these might take a little longer for beginners, but doing so could be worth it for the added security. For those holding large sums of money in the form of cryptocurrency, most experts agree that using a hardware wallet is a must.

MAY'S TOP BANKING OFFE **360 PERFORMANC** Capital(Member FDIC **MOBILE BANKING** Earn up to \$2,000 Cas **CITI CHECKING** Open a new eligible ch Member FDIC account with required Earn up to \$2,000 Cas **CITIGOLD®** Open a new eligible ch account with required Jump to Main content Search Account **Brian Nibley**

Brian Nibley is a freelance writer, author, and investor who has been covering the cryptocurrency space since 2017. His work has appeared in publications such as MSN Money, Blockworks, Robinhood Learn, SoFi Learn, and The Balance. He's helped tech and... Read more

Related articles



PERSONAL FINANCE

Digital assets are becoming the new normal — here's how to buy cryptocurrency

Jump to

Main content Search

Account

MARKETS

Ready to invest in Bitcoin? Here are 4 steps to get started

Jump to

Main content Search

Account

FINANCE

What to know about non-fungible tokens (NFTs) — unique digital assets built on blockchain technology

cryptocurrency

service graphics

Alyssa Powell

More...

Jump to

Main content Search Account



* Copyright © 2023 Insider Inc. All rights reserved. Registration on or use of this site constitutes acceptance of our

Terms of Service and Privacy Policy.

Contact Us | Masthead | Sitemap | Disclaimer | Accessibility | Commerce Policy | Advertising Policies | Coupons

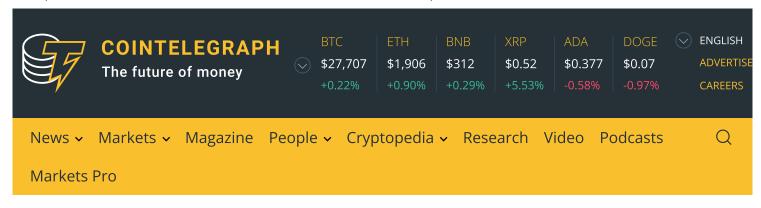
Made in NYC Jobs @ Insider

Your Privacy Choices

International Editions:

INTL | AS | AT | DE | ES | IN | JP | MX | NL | PL

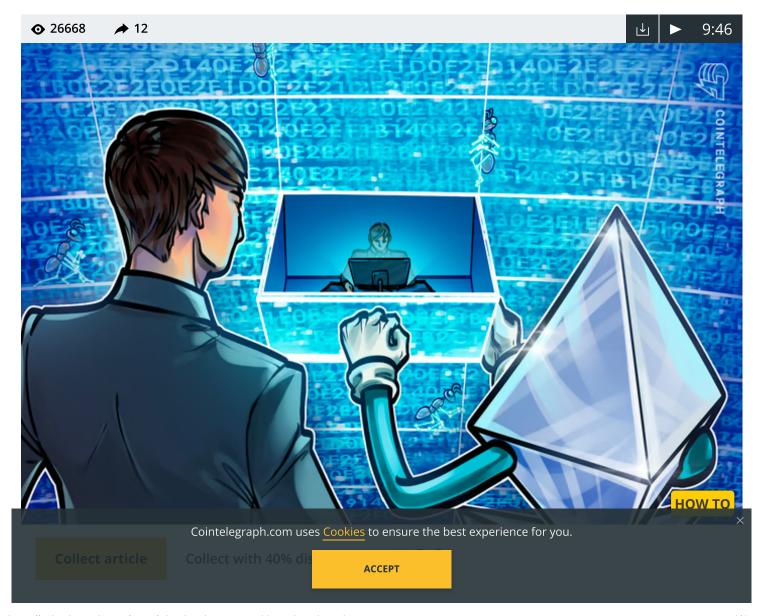






What is Etherscan, and how does it work?

Etherscan is a block explorer and analytics platform that allows you to access details on any Ethereum blockchain transactions that are pending or confirmed.



Join us on social networks















Etherscan is the most trusted tool for navigating through all the public data on the Ethereum blockchain and is sometimes called "Ethplorer." This data includes transaction data, wallet addresses, smart contracts and much more. The application is self-contained and is neither sponsored nor administered by the Ethereum Foundation, which is a non-profit organization.

The team behind Etherscan includes seasoned developers and industry professionals, who developed the Etherscan app to make the Ethereum blockchain more accessible to everyday users.

Although Etherscan is a centralized platform, the app does make it easier for people to search through the Ethereum blockchain.

Is Etherscan a wallet?

Etherscan is not an Ethereum wallet, nor is it a wallet service provider. Users don't receive an Etherscan wallet when they search the Ethereum blockchain on Etherscan.

Etherscan.io is an independent Ethereum-based block explorer. The Etherscan app keeps track of blockchain transactions on the Ethereum network. The app then displays the results like a search engine.

This allows users to find the details of transactions on the Ethereum blockchain, which may give someone peace of mind if their transferred funds have not yet appeared in their wallet.

While Etherscan can track the activity on an Ethereum wallet address, users will need to link the app to an existing crypto wallet to do so.

You may wonder — Is Etherscan free to use? Yes, Etherscan is completely free.

What is Etherscan used for?

Etherscan allows users to view the assets held on any public Ethereum wallet address. Using Etherscan, enter any Ethereum address into the search box to see the current balance and transaction history of the wallet under consideration. Etherscan will also display any gas fees and smart contracts involving that address.

Users can use Etherscan to:

- Calculate Ethereum gas fees with the Etherscan gas tracker
- Lookup and verify smart contracts
- View the crypto assets held in or associated with a public wallet address
- Observe live transactions taking place on the Ethereum blockchain
- Lookup a single transaction made from any Ethereum wallet
- Discover which smart contracts have a verified source code and security audit
- Keep track of how many smart contracts a user has authorized with their wallet
- Review and revoke access to a wallet for any decentralized applications (DApps)

Users can view any transaction of the Ethereum blockchain on Etherscan. These transactions include failed and pending transactions.

Etherscan can also keep track of the progress of an incoming transfer. One way to track a transaction using Etherscan is to look it up on Etherscan.io using its hash key. The hash provides users with an estimate of how long the transaction will take to confirm. The page refreshes once the transaction is complete.

Etherscan also works as an analytics platform. Anyone can use Etherscan to analyze on-chain metrics like changes to Ether **ETH** \$1,906 gas costs, as well as keep track of their portfolio and monitor their transaction history for suspicious activity.

Only information that is public on the Ethereum blockchain is displayed on Etherscan, so information like a user's private keys can't be viewed on the app. Etherscan doesn't store any private keys and is not involved in any of the transactions shown. The app also cannot be used to solve a transaction failure.

Do users need an account to use Etherscan?

Users are not required to sign up for an account before using the Etherscan app. However, signing up for an Etherscan account does give users access to additional features. These features include the ability to track addresses and receive notifications whenever a transaction occurs. Developers may also sign up to gain free access to Etherscan's blockchain explorer data and application programming interfaces (APIs).

Thus, users with accounts can add their addresses to the "watch list" on the block explorer to monitor or track their investments. Users can also set alerts so that they're notified of every incoming transaction via email. Etherscan also provides API services for developers so that they can create decentralized applications.

Etherscan provides the following information for all incoming and outgoing transactions:

Advertisement

Stay safe in Web3. Learn more about Web3 Antivirus →

- Transaction hash
- Number of blocks within which the transaction was recorded and the time at which the transaction was confirmed
- Sender and receiver addresses
- Gas fee
- Amount sent
- Total transaction fee

How does Etherscan work?

To use Etherscan, simply enter any public Ethereum wallet address into the search field at the top of the Etherscan.io homepage. Doing so will allow users to view all the transactions associated with that address.

Viewing a transaction and wallet on Etherscan

Exploring a wallet address on Etherscan under the "Transactions" tab will show a list of all ETH transactions (Txns), or transactions that have used gas (Gwei) associated with that specific wallet.

Viewing a transaction and wallet on Etherscan

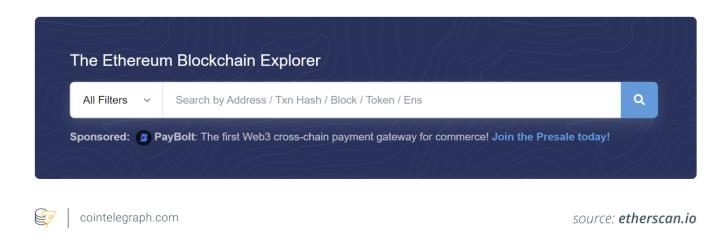
Гх	0x0a4e3a27a48f 15 secs ago	From 0x2360ee220e559dce99 To 0x4cfda7be4d62db7214	0.004 Etl
Гх	0xf1c8f224f32b6 15 secs ago	From 0x4d76336b5344c2f637 To 0xb2e4e69527d57fa108	0 Eth
Гх	0x27f7935eeb95 15 secs ago	From 0x796da87d9c87d490cd To 0x7be8076f4ea4a4ad08	0 Eth
Гх	0xca3042ea4c2df 15 secs ago	From 0x2afa5c040873c1181bd To 0xe592427a0aece92de3	0 Eth
Гх	0x5ae447834b58 15 secs ago	From 0x6064df93ad940c78b8 To 0xc02aaa39b223fe8d0a	3 Eth
Гх	0x1881dcedca6d	From 0xc0f9e8de7ce5ad4097	0 Eth



source: etherscan.io

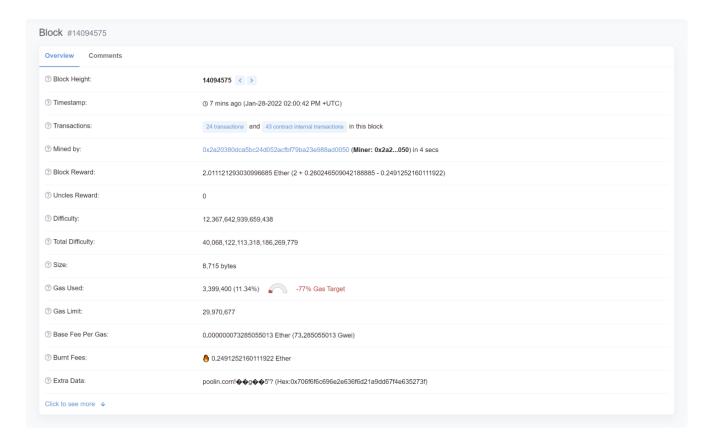
Type the wallet address on Etherscan's homepage and click "Search" to be redirected to a page that displays all of that wallet's information. The data will include its ETH balance and its value denominated in United States dollar, as well as an overview of the wallet's transaction history.

'Search' tab in the Etherscan to retrieve wallet information



Click on the wallet's Transactions tab, which will open up a new page displaying details on all the transactions involving that address. Details include the transaction ID, block height and when the transaction was confirmed.

Transaction details of ETH wallet address





source: etherscan.io

The block height refers to the block in which the transaction was included. The sender and recipient addresses and the total transaction fee are shown as well.

To explore and track a single transaction, users will need the transaction hash or transaction ID, or TxHash. A TxHash is a unique string of numbers that identifies a transaction on the blockchain.

When users input the TxHash into the Etherscan search bar, a list of information on that transaction will be populated on the page. From here, users can go to the Transactions tab to review additional information about the said transaction. Such data includes whether the transaction status was successful, pending or failed, as well as the total amount that was transferred.

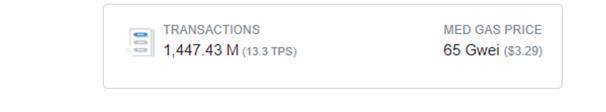
The value of the transaction in ETH, as well as the USD value of ETH at the time of the transaction, can also be viewed. Etherscan also displays the timestamp for each transaction in addition to the transaction cost, denominated in USD.

How to use the Etherscan gas tracker?

"Gas" refers to the transaction fee associated with a transaction to be executed successfully on the Ethereum blockchain. Transaction costs on Ethereum are referred to as gas fees.

Ethereum's network can get highly congested. When a considerable amount of traffic is running on Ethereum's blockchain due to Ethereum's auction-based model, the average gas price goes up as users compete against one another and bid to have their transactions included in the next block. Consequently, transactions are delayed and some transactions fail.

Etherscan gas tracker



cointelegraph.com

Gas prices vary depending on the block that the user transaction has been included in, as well as the degree of network congestion. Moreover, users may not be able to discern an accurate estimate of the gas fees they'll be required to pay before initiating a transaction.

To determine a transaction's gas fees with accuracy, it's best to use Etherscan's gas tracker. Etherscan's gas tracker does more than simply show users the difference in gas prices at various time intervals. It's also useful for estimating how congested the network is and what the transaction cost will be per transaction.

The Etherscan gas tracker functions as an ETH gas calculator. It examines pending transactions on the Ethereum blockchain to determine how much gas a transaction will require.

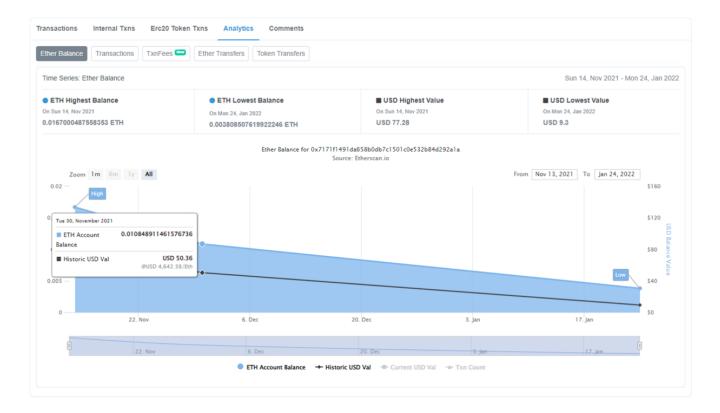
Users receive a gas fee estimate so they can adjust the timing of their transactions to avoid high network traffic. Doing so saves transaction costs and allows for cheaper and smoother transactions, without suffering the anxiety that comes with not knowing whether a transaction will fail or succeed.

How to use Etherscan to check the wallet balance and history?

To see how the balance in a user's wallet has changed over time, look up the address of the wallet on Etherscan and select "Analytics." From here, users can see the data analytics of a user's wallet, such as the user's ETH balance, the entire transfer history, transactions and fees paid.

source: **Ethhub**

Data analytics of a user's wallet on Etherscan



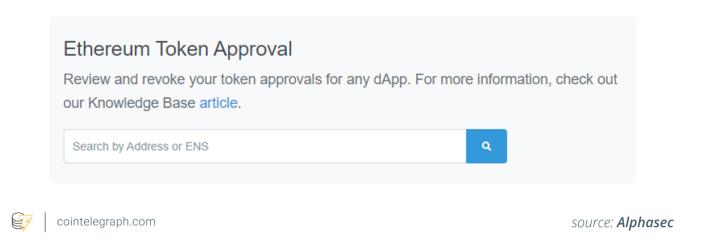


source: LongZePonzi (Twitter)

Using Etherscan to review smart contracts and wallet access

Smart contracts can be read and edited without the need for special permissions by using the Etherscan app's "Read Contract" and "Write Contract" features. These tabs provide real-time information on various tokens and smart contracts. Users may also use these features to initiate a token transfer and approve smart contract transactions.

Ethereum token approval on Etherscan



Removing a token's access to the user's wallet can be achieved using Etherscan's Token Approval Checker. When users interact with DApps to buy or swap tokens, they tap directly into a user's wallet with their permission. Therefore, DApps are an appealing target for scammers looking to gain access to users' Ethereum wallet addresses.

If users see suspicious activity or believe that a DApp has been compromised, they can use Etherscan to revoke its access to a specific wallet address. The user's assets inside the wallet will not be lost, but users will need to reauthorize the tokens when they access the DApp the next time around.

To use Etherscan to review a user's approved token list, look up the user's wallet address on Etherscan's Token Approval Checker. Doing so will provide users with a list of all approved smart contract interactions with that wallet. From there, users can connect their wallet to Etherscan and click "revoke" to ensure that the specific DApp no longer has access to the user's wallet.

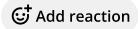
The road ahead

Etherscan is one of the leading tools for accessing reliable Ethereum blockchain data. Etherscan can review smart contract code, track gas prices and monitor the Ethereum blockchain in real time.

Finally, Etherscan is free and doesn't require a user to register to access all of its features. Overall, it's a great place to start for users who would like to learn the full range of functionalities of a blockchain, as well as their Ethereum wallet and what information they can garner from a blockchain explorer.

#Blockchain #Cryptocurrencies #Business #Wallet #Ethereum #Technology #Markets

#CryptoMarket #Ethereum novice



RELATED NEWS



How to check an Ethereum transaction



Decentralized NFT data networks empower communities and make the market safer



Could NFTs and crypto help Japan's 'Cool Japan' strategy?



With its own public offering, wallet maker focuses on easy-to-use stock sales



Crypto wallets: An important battlefront to gain wallet share and mind share



Enegra migrates digitized equity tokens from Ethereum to Polygon blockchain

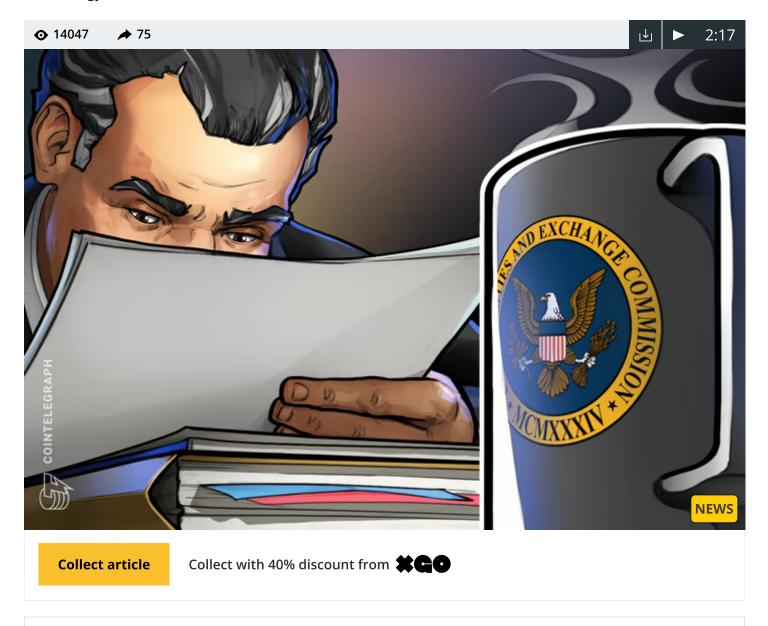




JAN 29, 2022

SEC approves BSTX for blockchain settlements on traditional markets

BSTX's SEC approval does not involve crypto trading or any other form of use of blockchain technology.



Join us on social networks



The Boston Security Token Exchange (BSTX), a new facility of the Boston-based BOX exchange, received regulatory approval from the United States Securities and Exchange Commission (SEC) to operate as a blockchain-based securities exchange.

BSTX was launched jointly by BOX and Overstock's blockchain arm tZERO, originally seeking approval for launching publicly-traded registered security tokens. However, the SEC approval to operate as a national securities exchange allows BSTX to use blockchain technology for faster settlements in traditional markets. According to the SEC,

"

"The Commission notes that the [BSTX] Exchange's current proposal does not involve the trading of digital tokens and such a proposal, or any other additional use of blockchain technology."

While the SEC has previously <u>denied BSTX permission</u> to offer crypto-focused services, the latest approval allows the facility to use a proprietary market data feed, BSTX Market Data Blockchain.

In addition, BSTX will also use blockchain technology to help investors experience faster transaction times on the same day ("T+0") or the next day ("T+1"), instead of the standard two business-day ("T+2") settlement cycle sported by traditional markets.

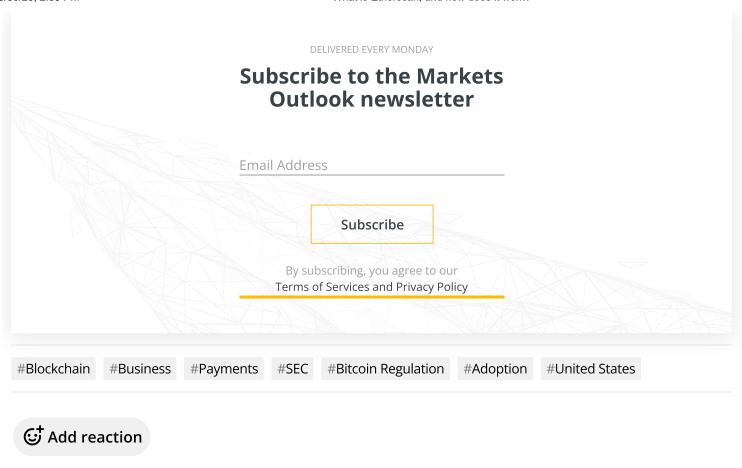
Along with the regulatory approval based on BSTX's rule change proposals (SR-BOX-2021-06), the SEC placed four conditions for BOX in line with BSTX's operations.

The requirement includes joining all relevant national market system plans related to equities trading, ensuring Regulatory Services Agreement with FINRA, Intermarket Surveillance Group membership for the BSTX facility and an applicable governance structure.

Related: SEC reportedly probing crypto lending products by Gemini and Celsius

In line with the above developments, the SEC is also reportedly reviewing some of the high-yield crypto lending products offered by Gemini, Celsius Network and Voyager Digital.

As Cointelegraph reported, the SEC is conducting an inquiry into considering registering crypto lending services as securities. A Bloomberg report on the matter suggests that the SEC's main concern lies with the high-yield offering by crypto lending services.



RELATED NEWS



Can memecoins be used as real currency?



Emirati-based blockchain Bahamut goes live with PoSA consensus



Could NFTs and crypto help Japan's 'Cool Japan' strategy?



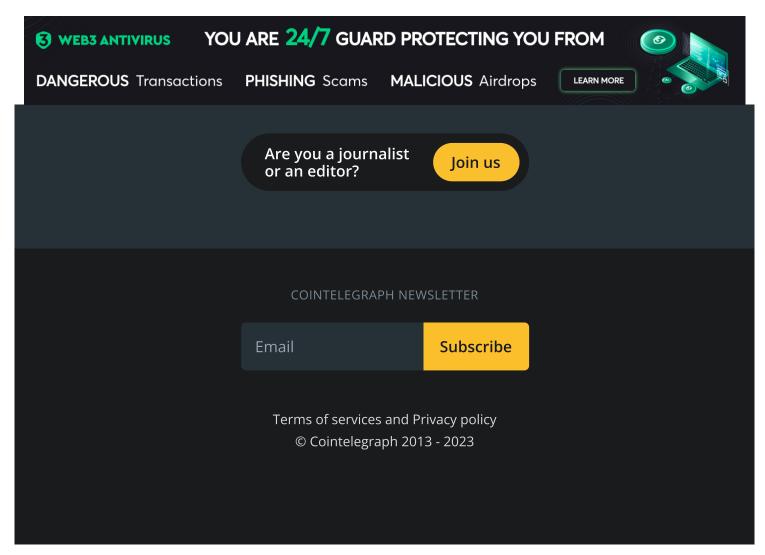
PayPal to start letting US customers pay in Bitcoin at global merchants



SEC Chair Gary Gensler responds to concerns about first Bitcoin-linked ETF



Crypto Bahamas: Regulations enter critical stage as gov't shows interest









Ethereum > What Is the Ethereum Name Service? How ENS Works and What It's Used For



Ethereum

What Is the Ethereum Name Service? How ENS ... I works and what it's Use



The Ethereum Name Service (ENS) takes inspiration from a technological challenge first contended with when the U.S. military was developing the building blocks of the internet.

By Stephan Roth

Updated May 11, 2023 at 8:50 a.m. PDT





During the early days of the internet, one of the central problems computer scientists faced was that domain names and internet protocol addresses had not been matched up, making them unfriendly to an average user.

What that meant is if you wanted to access a website, you would need to type out the full IP address of the site you wanted to visit, such as 54.235.191.121. Since IP addresses are just strings of numbers and dots that are long and difficult to remember, It made it hard to browse the web.

However, following the cutting-edge research done by Elizabeth Feinler, an American scientist, in the 1970s, Paul Mockapetris, an American computer scientist, developed the Domain Name System (DNS) in 1983.

The DNS matches IP addresses with human-friendly domain names. For instance, as opposed to typing out 54.235.191.121, you can simply type coindesk.com into your search bar and be directed to the website.

Read more: What Is Ethereum?

Despite all the technological wizardry occurring in the crypto sector, cryptocurrencies still mostly use a system similar to the old IP address setup.

If you want to send your bitcoin to someone else's address, you will have to use that person's wallet address as opposed to using something human-friendly like the wallet owner's name.

That's where the Ethereum Name Service (ENS) comes in.

What is the Ethereum Name Service?

The Ethereum Name Service is a distributed, open and expandable naming system that interacts with the Ethereum blockchain.

Help us improve by sharing your feedback.



Similar to the role of the DNS mentioned above, the role of the ENS is to map human-readable names such as "john.eth" to a machine-readable name such as a wallet address like "8g978dl39ji9xl."

Through the ENS, users can buy and manage their own domains, meaning that secure and decentralized transactions can take place without having to deal with long and complex addresses. It also reduces the likelihood of any input errors when typing out the recipient's address to send funds.

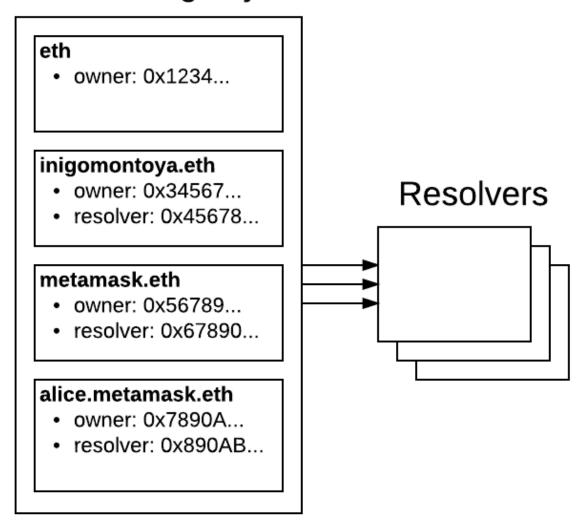
Now, the ENS may sound identical to the DNS system developed in the 1980s, but its architecture differs greatly.

Like the DNS, the ENS uses a system of hierarchical names called domains, with the creator and owner of the domain having control over his top-level domain and subsequent subdomains.

How the ENS works



ENS Registry



Ethereum Name Service (Source: ENS domain)

Registry

First, all the domain names that are recorded inside the ENS have an owner. An owner owns a named domain and can transfer that name to a new owner at his own discretion.

The owner who wishes to buy a domain is called a "registrant" because he must register that domain on the ENS. Recording, monitoring and tracking of who has made registration for a domain – the registrar – is undertaken by a functionality of the ENS called the "registry."

"Registrars" are smart contracts that allocate the subdomain names and are governed by the main registrar called the permanent registrar. They can be altered at any point or at any level within the ENS and can be referred to by the owner of the registry.



A registrant of a registration can also transfer his registration of a domain to another given account. Additionally, in case the individual wishes to recover a given domain name, he can do so by reclaiming that name and domain.

This resets the ownership of the ENS name to the registrar who has reclaimed a given account.

Names

As mentioned above, there is a difference between owning a name and owning a registration. A "name" acts as a way for the ENS to identify a given domain such as "john.eth" and can consist of different labels that are separated by dots.

The algorithm that is used to process domain names registered on the ENS is called the "namehash." The namehash comes into play because human-friendly names are replaced on the ENS system, which functions only with a finite length of 256-bit cryptographic hashes.

If one wishes to derive the hash from the name and still preserve the domain's hierarchical properties, a namehash is used. For instance, for "john.eth," the namehash is 0x787192fc5378cc32aa.

Representing names in this manner is exclusive to the ENS.

Now, before the namehash comes into play, names must first be normalized, meaning upper- and lower-case names are treated equally. This is important because the namehash process ensures that all users get the same view of the names and domains available on the ENS.

Why is ENS important?

Because the ENS was developed for Ethereum smart contracts – and is native to the Ethereum ecosystem – it doesn't suffer from security issues faced by a DNS system. DNS records of domains and names are stored on a centralized server. That means they are prone to hacks.

For instance, in October 2020, Google's threat analysis group monitored a record-breaking 180,000 attacks on DNSs as well as on other network targets that were launched from Chinese internet service providers.

Conversely, ENS records cannot be destroyed and are secured by th



Additionally, through the ENS, names and addresses become more transparent and easier to interact with. Anyone can create or register an ".eth" domain by participating in an auction process. The highest bid will win the domain name, allowing the winner to create subdomains as well as lease the domains.

That gives users on the Ethereum blockchain a unique opportunity to set up shop on the Ethereum network and become a clear point of contact within a sea of addresses.

See Also: How Does Ethereum Work?

This article was originally published on Jul 11, 2022 at 7:59 a.m. PDT

Newsletter → | Weekly every Tuesday

Crypto Investing Course

Sign up for Crypto Investing Course, A weekly newsletter to be a smarter, safer investo

Enter your Email

By clicking 'Sign Up', you agree to recieve newsletter from CoinDesk as well as other partner offers and accept our te

DISCLOSURE

Please note that our privacy policy, terms of use, cookies, and do not sell my personal information has been updated.

The leader in news and information on cryptocurrency, digital assets and the future of money, CoinDesk is a media outlet abides by a strict set of editorial policies. CoinDesk is an independent operating subsidiary of Digital Currency Group, whi startups. As part of their compensation, certain CoinDesk employees, including editorial employees, may receive exposur rights, which vest over a multi-year period. CoinDesk journalists are not allowed to purchase stock outright in DCG.



Stephan Roth

Stephan Roth is a London-based financial journalist and has reported on cr worked for KPMG, CNNMoney and ACCOINTING.

Follow @sep_roth on Twitter



Learn more about **Consensus 2024**, CoinDesk's longest-running and most influential ever crypto, blockchain and Web3. Head to **consensus.coindesk.com** to register and buy your

Related stories

Consensus Magazine

CoinDesk at 10: The Ghost of Libra Lives On

May 25, 2023

Learn

How to Manage Risk When Trading Cryptocurrency

May 30, 2023

CoinDesk's Money Reimagined

'Flipping the Narrative': Stories and Statistics of Bitcoin With Troy Cross | Part 2

May 26, 2023

Consensus Magazine

How Crypto Can Help Secure Al

May 25, 2023









Crash Courses All →

Bitcoin 101

4 Courses | 20 Minutes





DeFi 101

3 Courses | 15 Minutes

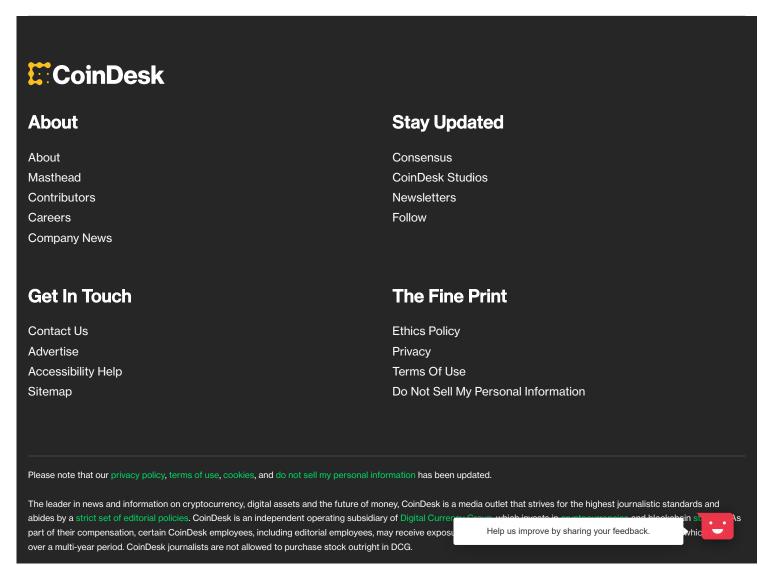


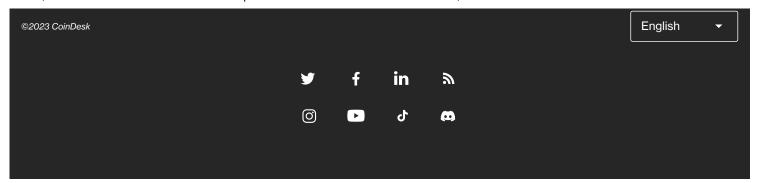




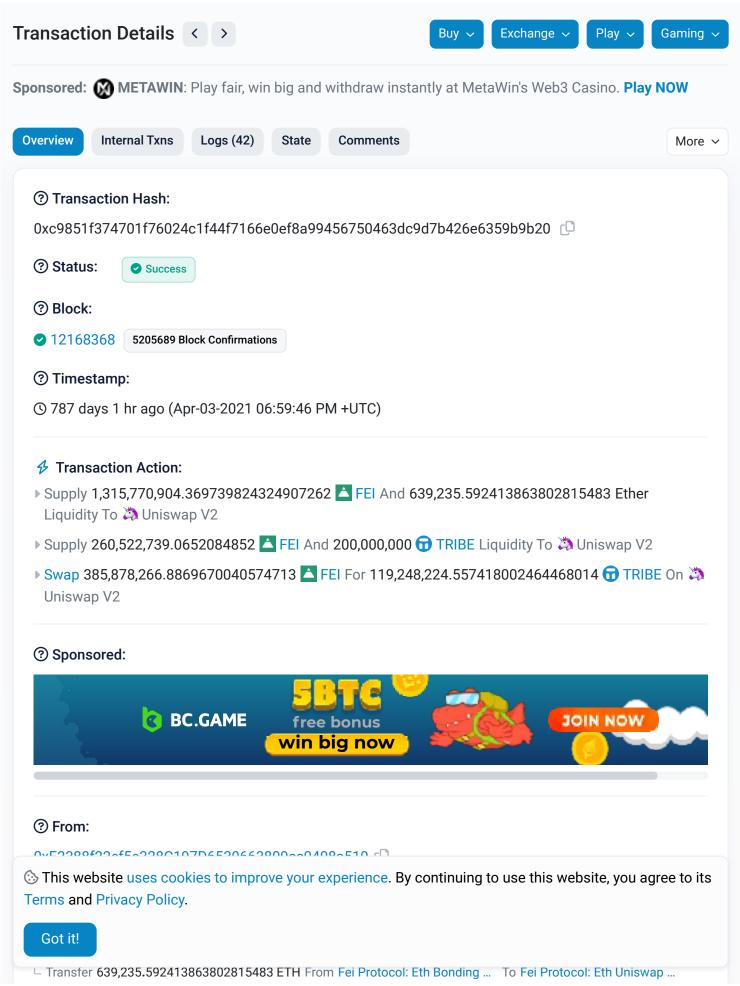
Other Topics











- Transfer 639,235.592413863802815483 ETH From Uniswap V2: Router 2	
③ ERC-20 Tokens Transferred: 16	
From Null: 0x000000 To Fei Protocol: Genesis Group For 1,302,	613,195.326042426081658189
\$1,298,683,211.32	
From Null: 0x000000 To Fei Protocol: Eth Uniswap PCV Deposit	
1,315,770,904.369739824324907262 \$1,311,801,223.55	D (FEI)
From Fei Protocol: Eth Uniswap PCV Deposit To Uniswap V2: FEI	
1,315,770,904.369739824324907262 \$1,311,801,223.55	SD (FEI)
From Uniswap V2: Router 2 To Uniswap V2: FEI 3 For 639,235.592	2413863802815483
From Null: 0x000000 To Null: 0x000000 For 0.00000000000000000000000000000000000	001 (\$0.00)
From Null: 0x000000 To Fei Protocol: Eth Uniswap PCV Deposit	For
Scroll for more	
③ Value:	
♦ 0 ETH (\$0.00)	
Transaction Fee:	
0.39858105 ETH \$760.06	
③ Gas Price:	
350 Gwei (0.00000035 ETH)	
More Details:	+ Click to show mo
? Private Note:	
To access the Private Note feature, you must be Logged In	
This website uses cookies to improve your experience. By continu	ling to use this website, you agree to
	aning to doc time website, you agree to



Transactions

For 0xbffb152b9392e38cddc275d818a3db7fe364596b Fei Protocol: Genesis Group

Sponsored: 3 - Gasless execution and MEV protection on 1inch - #1 DEX aggregator. Try now!

?	Txn Hash	Method ?	Block	Age	From
•	0x18bf9f5f93d1e7053	Purchase	12148930	790 days 1 hr ago	() binary.eth [
•	0x7de8fc960d10081a0	Purchase	12148930	790 days 1 hr ago	0x1140E0083274A3
•	0xe0c8c12ad0d6c417	Purchase	12148930	790 days 1 hr ago	0x11497c09CA36c0
©	0x1f3d11f4441be8922	Purchase	12148930	790 days 1 hr ago	0хA01F5588cfa8Сс 🖰
©	0xd88a041206f970514	Purchase	12148930	790 days 1 hr ago	() degencake.eth [
©	0xcb8a1f8d27a1217e9	Purchase	12148930	790 days 1 hr ago	0x6CD6ee349dA986
•	0x3ef52e8a4923046a2	Purchase	12148930	790 days 1 hr ago	0x357401168ACa19
•	0x3d59ece403ff9628a	Purchase	12148930	790 days 1 hr ago	0xd2d2A1Ca075695
•	0x0c01a36069730ba5	Purchase	12148930	790 days 1 hr ago	<> 57901.eth □ □
©	0xc2d72004d9870ca2	Purchase	12148930	790 days 1 hr ago	0xa13e93EF424986 🚨
©	0x59e55484133fbce21	Purchase	12148930	790 days 1 hr ago	0x522DD4d798E445
•	0x14e50773a229b796	Purchase	12148930	790 days 1 hr ago	0x3374472FC3A2BA С

Got it!

?	Txn Hash	Method ?	Block	Age	From
©	0x0359146abe533282	Purchase	12148929	790 days 1 hr ago	0xc8Fec3762A7175 🚨
©	0x47edd7f9d41156fb5	Purchase	12148929	790 days 1 hr ago	0x85b10cb21f7d9f 🕒
©	0x03a6beae82de5bdc	Purchase	12148929	790 days 1 hr ago	0xc8Db7E0E81885A
©	0xa5d67f7ce41b5e00f	Purchase	12148929	790 days 1 hr ago	0x92d7Fe9749c8af 🚨
©	0xd9b2376f213bcc63a	Purchase	12148929	790 days 1 hr ago	₽ 233333333.crypto □
©	0x7ee0177be5b681da	Purchase	12148929	790 days 1 hr ago	<>> moksal.eth □□
©	0x4ca96965615c82de	Purchase	12148929	790 days 1 hr ago	() akhileshdubba.eth 🚨
©	0x77dd77ad3f6a7d171	Purchase	12148929	790 days 1 hr ago	0x0A5fC61D758581
©	0x4491e963d4266ac7	Purchase	12148929	790 days 1 hr ago	0xbE09d4e3A62d23
•	0xd5a7a0d454243218	Purchase	12148929	790 days 1 hr ago	0x6165fD92df5b01
©	0x0668228075b72b4b	Purchase	12148929	790 days 1 hr ago	0x24E09fA38339DD 🗘
©	0xc011e04c1cffe6783	Purchase	12148929	790 days 1 hr ago	0xd4154905A1AB4f 🗘
©	0x46762468020a61f44	Purchase	12148929	790 days 1 hr ago	0xFE4B04E31fA27e 🚨
©	0xf0eab06dd47670279	Purchase	12148929	790 days 1 hr ago	0x13FeFdc3C12946 🚨
©	0x86b60c2a1a240d01	Purchase	12148929	790 days 1 hr ago	0x1F711B26084eCD
©	0xf9f18c6b54355b210	Purchase	12148929	790 days 1 hr ago	0x04D13DfEA99a77 🚨
©	0x9e5fc6d49fd707040	Purchase	12148929	790 days 1 hr ago	() henpaiverse.eth [

?	Txn Hash	Method ?	Block	Age	From
•	0x6348151a840c3b81	Purchase	12148928	790 days 1 hr ago	() mrhmh.eth [
•	0xd600d5590bde620e	Purchase	12148928	790 days 1 hr ago	() trappist.eth [
•	0x6da29d0d8df07cfd4	Purchase	12148928	790 days 1 hr ago	0xAB090072B2D450 🗗
•	0xe772e055573385a5	Purchase	12148928	790 days 1 hr ago	() comunitaria.eth [
•	0x73c1545da6c52e30	Purchase	12148928	790 days 1 hr ago	0xc1dc79FEaa859F 🗗
•	0xe27e45b9c918c978	Purchase	12148928	790 days 1 hr ago	0x7A4c6e0D613F57 🗗
•	0xeb055bc2fbbc0544d	Purchase	12148927	790 days 1 hr ago	0x8cE9ec30cd7DF0 🗗
•	0xbf460bcfa80edca0f	Purchase	12148927	790 days 1 hr ago	0x3fcD7a1545B0eE 🗗
•	0x2db09ad0eb0b4109	Purchase	12148927	790 days 1 hr ago	0x47C6E3613A878d 🗗
•	0x931d53857cfb69618	Purchase	12148927	790 days 1 hr ago	0xff282653a245D4 🚨
•	0xa28e8ee2fa8b7cade	Purchase	12148927	790 days 1 hr ago	0x20aDc2E56dEC6e 🚨
•	0xd9051efae74c03b19	Purchase	12148927	790 days 1 hr ago	₩ 838.crypto 🗅
•	0x6362870b33d28f72	Purchase	12148927	790 days 1 hr ago	0x89136603e4bA2a 🗗
•	0x51d542d5b23fa4f78	Purchase	12148927	790 days 1 hr ago	0x8770Ec9332e8d8 📮
•	0xc9aa66d7626ac621f	Purchase	12148927	790 days 1 hr ago	0x7d4e467068FF43 🗘
•	0x2256b2b485c64592	Purchase	12148927	790 days 1 hr ago	0xA3B481325c26Cb 🗗
Show	r: 50 V Records			First 〈 Pa	ge 1129 of 1129 > Last
	s website uses cookies to in and Privacy Policy.	nprove your	experience. E	By continuing to use t	this website, you agree to its

A transaction is a cryptographically signed instruction that changes the blockchain state. Block explorers track the details of all transactions in the network. Learn more about transactions in our Knowledge Base.

This website uses cookies to improve your experience. By continuing to use this website, you agree to its Terms and Privacy Policy.