BRIDGE

Bridge Passport Browser Extension v2.0

User Guide and Feature Overview

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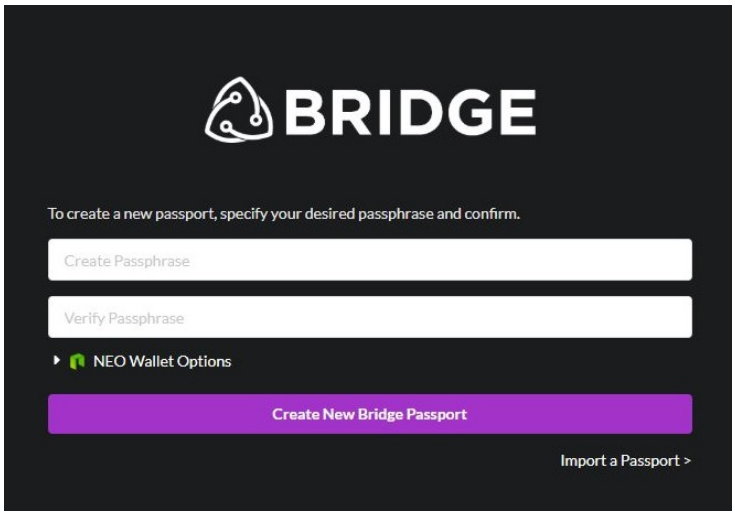
Opening Your Bridge Passport

Creating a new passport

To create a Bridge Passport, simply open the extension and enter the passphrase you would like to use to unlock your passport private keys and blockchain wallets in the future. By default a new NEO address is generated and included in the passport, After creating a new passport, the passport is automatically loaded into the extension and opened.

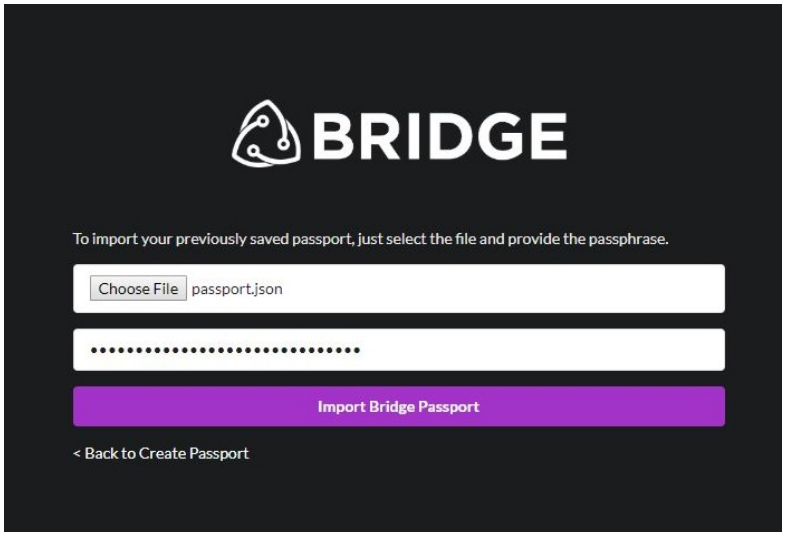


Importing an Existing NEO Wallet

If you have an existing NEO wallet you would like to import, simply expand the NEO Wallet Options dropdown and enter the private key WIF (wallet import format) of the wallet you wish to import. This private key will then be included in the passport and protected by the passphrase you used with your passport.

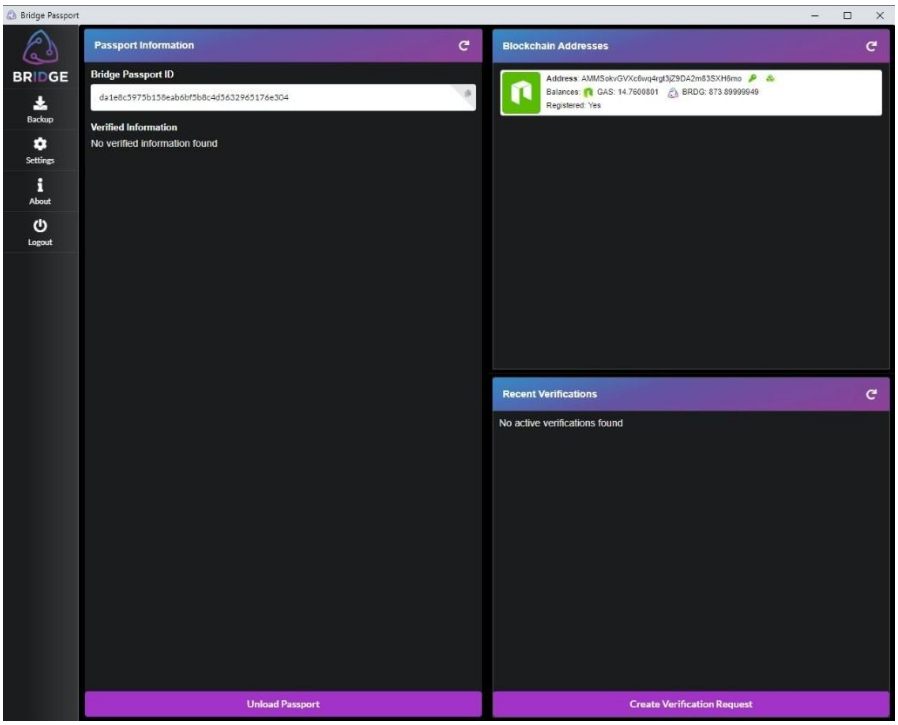
Importing an existing passport

If you already have a Bridge Passport you would like to use after installing the extension, simply click the link on the “Create Passport” screen to switch to import mode. In this screen you simply need to select the Bridge Passport JSON file you would have exported from your extension previously, and provide the passphrase you defined when creating that passport. If the passphrase is correct, the passport is loaded into the extension and automatically opened.



Managing Your Bridge Passport

Your Bridge Passport is a container for all the tools you need to manage your portable digital identity. This includes your cryptographic signing keys for secure p2p communication, blockchain wallets and keys to create blockchain transactions, and most importantly the information that has been verified about you that has been securely packaged so you can transmit to other passports and network partners that implement the protocol.



The main interface of your Bridge Passport is broken down by areas that contain different types of information and tools to help you manage your portable digital identity

Backing up your passport

The most important thing you can do is to backup your Bridge Passport regularly. When a passport is created, it is loaded and exists only in the browser extension. To create a backup file, simply click “Backup” in the left side menu and a JSON file will be exported containing all the keys, blockchain wallets, and verified information in your passport. This exported passport can only be imported and unlocked using the passphrase you defined when creating it.

Logging out of your passport

Since your passport and passphrase were loaded into the browser extension previously, your passport and associated blockchain wallets are in an active state and actions can be taken simply by opening the extension. As convenient as this is, it is always a good idea to “log out” of your passport which removes your passphrase from the memory of the extension. Your passport data will still be loaded into the extension, but a passphrase will be required to unlock the passport next time you want to use it after logging out.

Unlocking your passport

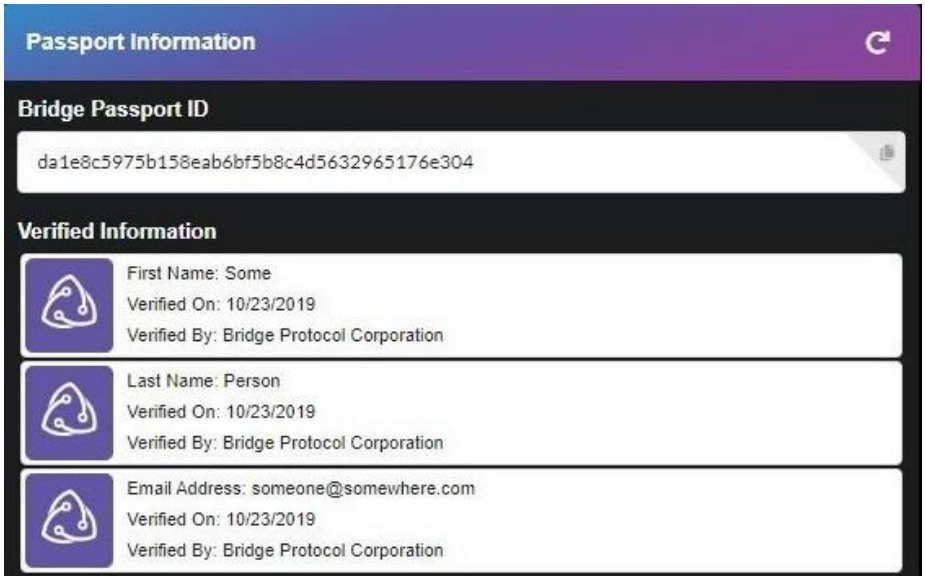
If you have previously logged out of your passport, a passphrase will be required to use your passport. Simply open the browser extension and you will be prompted to enter your passphrase to unlock and open the passport for use.

Unloading your passport

If you have multiple passports or simply do not want to keep your passport data loaded into the browser extension, click “Unload Passport” at the bottom of the passport information section and both the passphrase and passport will be removed from memory and the passport closed.

Passport information

The left column of the passport is where all your passport information and verified information about you is displayed.



Bridge Passport ID

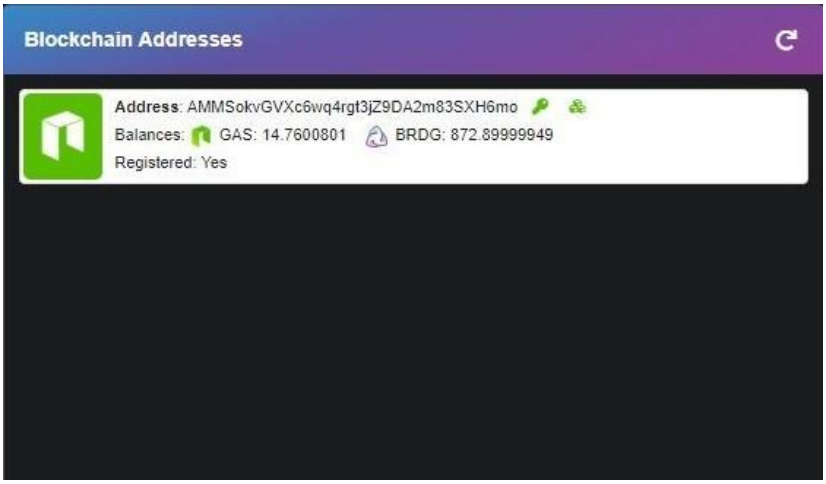
This is the unique identifier for your passport that can be used to find transactions and identify you on the Bridge Network.

Verified Information

This contains the pieces of information about you (claims) that you have had verified by a Bridge Marketplace Provider that are able to be securely transmitted to third parties that implement the Bridge Protocol.

Blockchain addresses

The blockchain addresses section is in the upper right of the passport and is the area where you will manage your blockchain wallets containing your address and keys to create blockchain transactions. Your blockchain addresses are also used to publish verified information about you (claims) to the blockchain.



Address

The NEO address that is associated with the passport

Balances

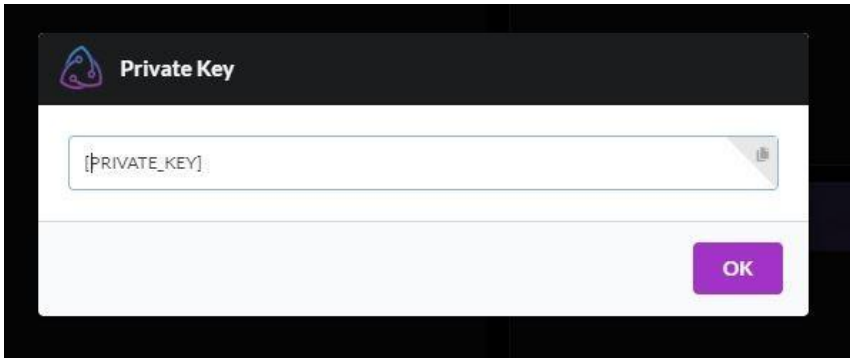
Balances of your NEO assets GAS and BRDG that are in in this wallet

Registered

Whether or not this passport and NEO address are registered on the blockchain in the keyserver contract. This is a prerequisite to perform any blockchain transactions or take action on the Bridge Network. If the address is unregistered, a button will appear next to the status. Simply click this button to register the passport and address on the blockchain.

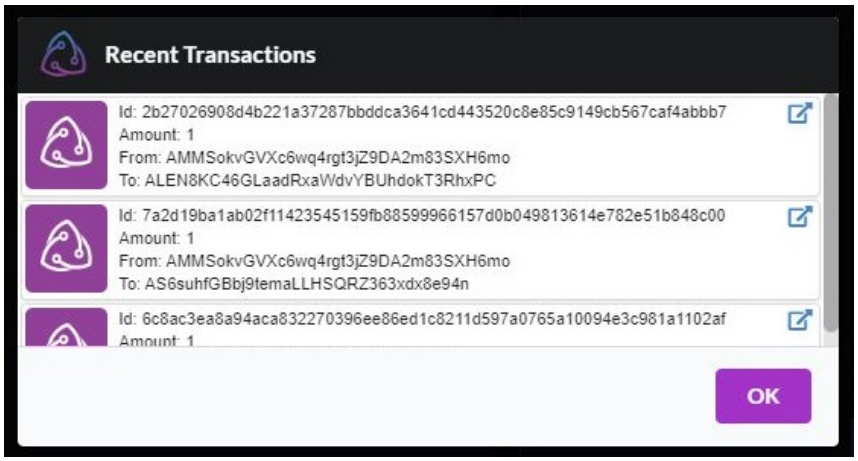
Retrieving your private key

If you have imported your NEO address, you already have the private key in WIF (Wallet Import Format). If you allowed the passport to generate the NEO address for you, it is important that you backup your private key. Simply click the key icon next to the address to view and copy your private key in WIF format.



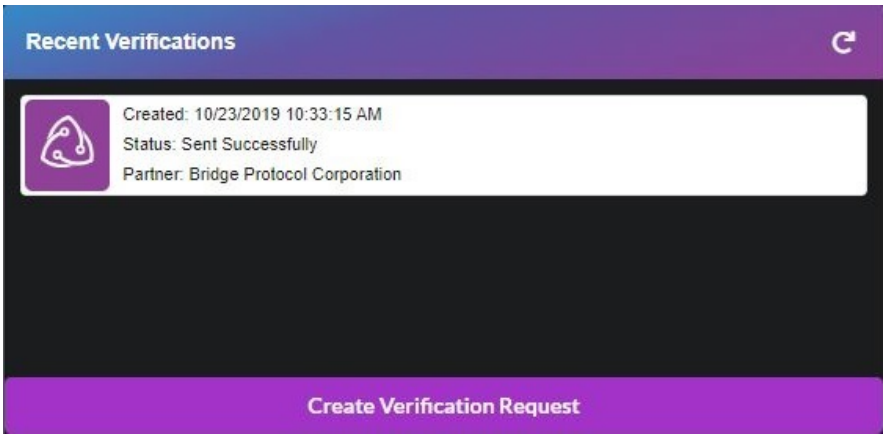
Viewing Recent BRDG Transaction History

To view a history of all recent BRDG transactions for this address, simply click the blocks icon next to the address and you will be able to view a summary of all of the recent transactions. If you need more detail about a specific transaction, click the icon in the top right to view the transaction on neoscan.io



Recent verifications

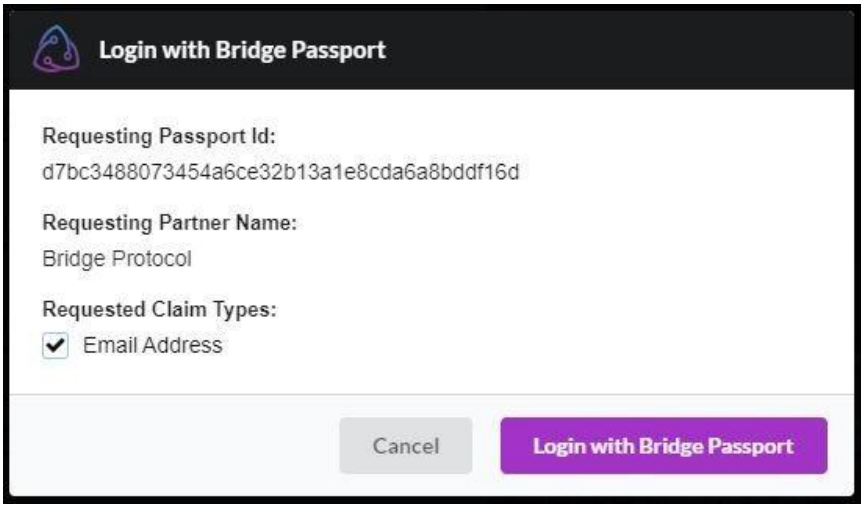
Bridge Marketplace Partners provide services to verify information about you from your document and return secure claims that can be stored in your passport. The recent verifications area is where you will manage the lifecycle of all of your Bridge Marketplace Partner verification requests.



Using Your Passport with Bridge Network Partners

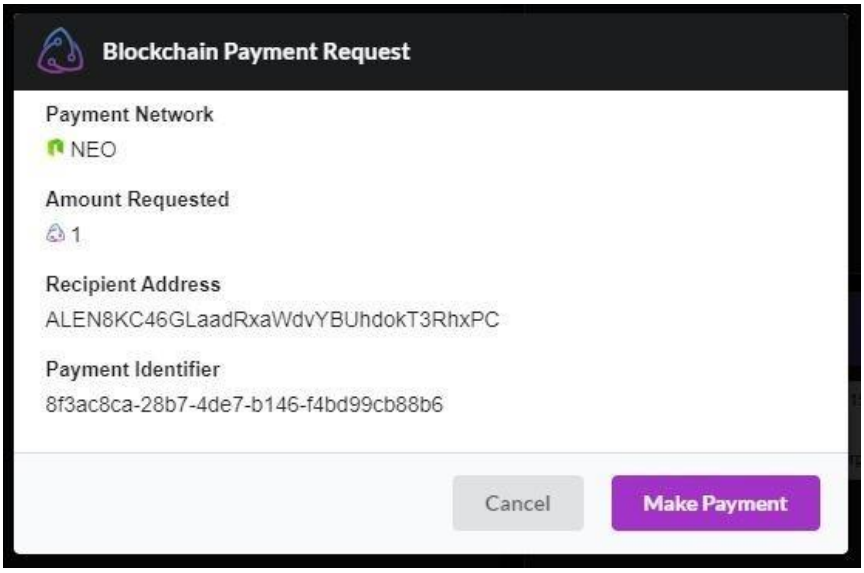
Logging into a website

Bridge Network Partners can allow users to login to their website using their Bridge Passport just as you would with a username and password to allow access to their app or service. When a request from a site is received, the passport will present a dialog with the request details including who is making the request and which verified claims they are requesting. Verified claim transmission is opt-in and at the discretion of the passport user.



Making a BRDG payment

Bridge Network Partners can also accept payment in Bridge Token (BRDG) via their website. If payment is requested, the passport will present a dialog with the payment request details, and allow the passport user to send a payment transaction on the blockchain.

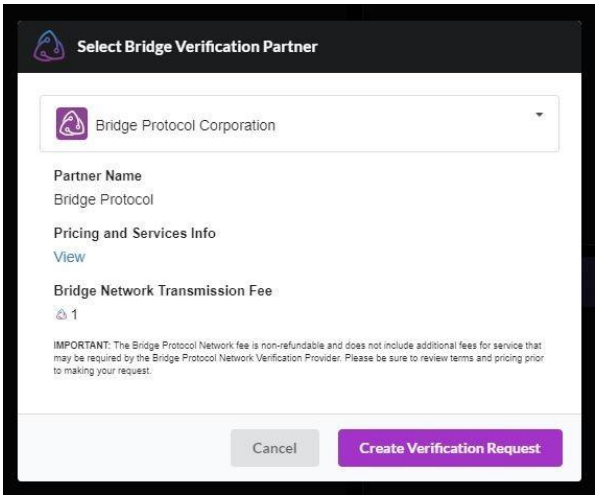


Creating a Bridge Marketplace Partner Verification Request

To verify information about yourself, you need to send a request to a Bridge Marketplace Partner. To create a new request, simply click the button in the bottom of the recent verifications area of the passport in the bottom right.

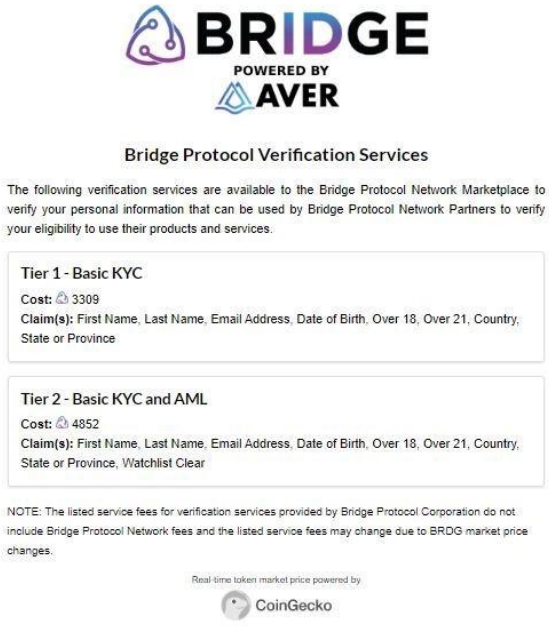
Selecting a Bridge Marketplace Partner

To select a partner, simply select from the dropdown of Bridge Marketplace Partners. For each partner, you will see the name, the associated fee to transmit the request, and a link to their site to review their services and pricing before making your request.



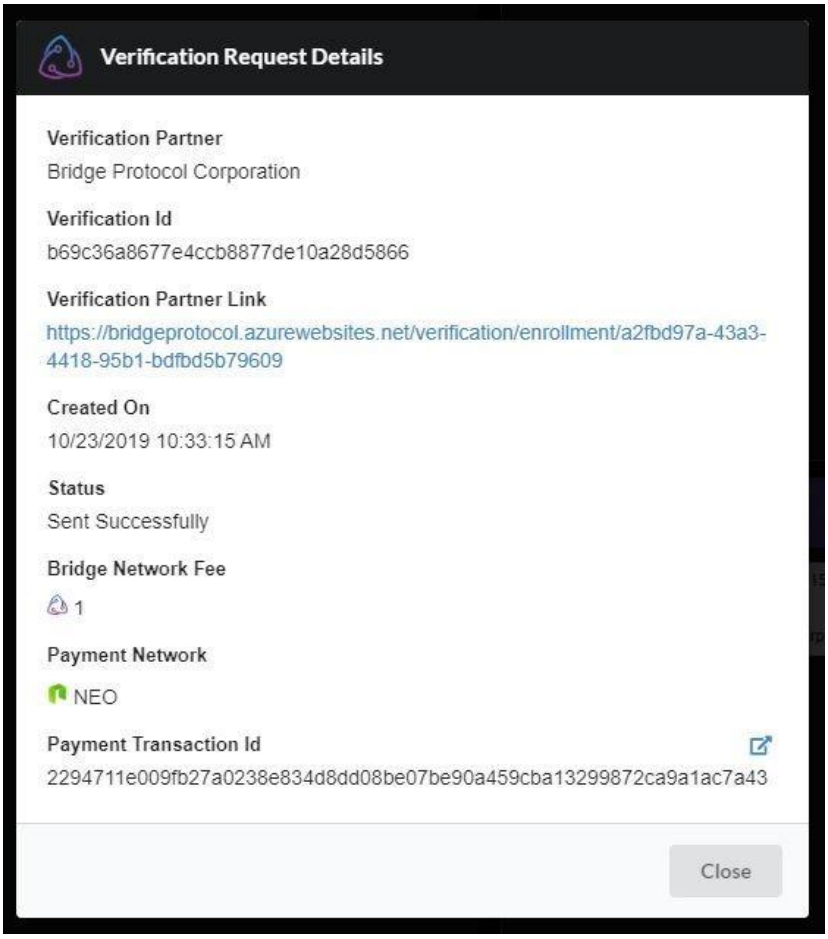
NOTE: Bridge Network fees are separate from the fees for service that may be charged by a Bridge Marketplace Partner. Be sure to review the services, pricing, and terms of service before selecting a provider. Bridge Network fees are non refundable.

When clicking the link to view pricing and services info, a browser will pop up to the Bridge Marketplace Partner's services and fees page. Bridge Protocol Corporation's services page has been shown as an example below:



Sending the verification request

Once you have found a Bridge Marketplace Partner you want to use for your verification request, simply select the appropriate partner from the dropdown and click to create the verification request.



Once created, a dialog will pop up showing the information about the request. This will include which partner the request was sent to, the status of the request, any related blockchain payment transactions, and a link to access the your verification enrollment on the partner's site. Once the status is Sent Successfully, this means that the Bridge Network was able to collect all network fees and successfully transmit the request to the Bridge Marketplace Partner. At this point, the work of the Bridge Network is complete and the remainder of the process is managed between the passport user and the Bridge Marketplace Partner directly.

NOTE: In some cases, the Bridge Marketplace Partner may be offline or unable to receive the request from the Bridge Network. If the request was unable to be transmitted to the partner, the status will reflect the fee was received and a link will be available next to the status that will allow the user to attempt to re-send the request. If the issue persists, contact the partner as there may be an issue on their service endpoint causing them to be unable to receive network messages. The Bridge Network does not manage Bridge Marketplace Partner servers or endpoints.

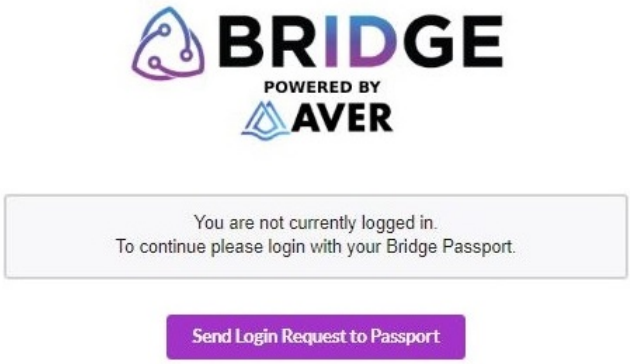
Completing the Bridge Marketplace Partner Verification Process

To start the verification process with the Bridge Marketplace Partner, simply click the link in the verification request.

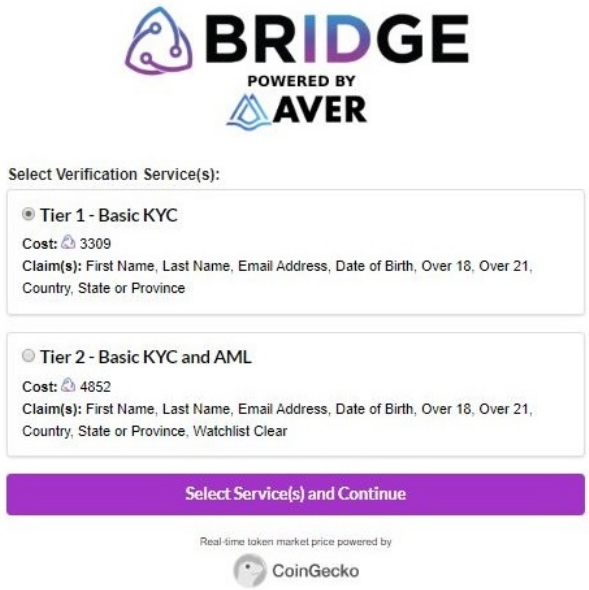
Complete the verification enrollment

All Bridge Marketplace Partners are free to use whatever workflow they choose to perform their verification services, so the workflow will vary. The following process will demonstrate the workflow required to do Basic KYC Verification using the Bridge Protocol Corporation verification provider on the Bridge Network.

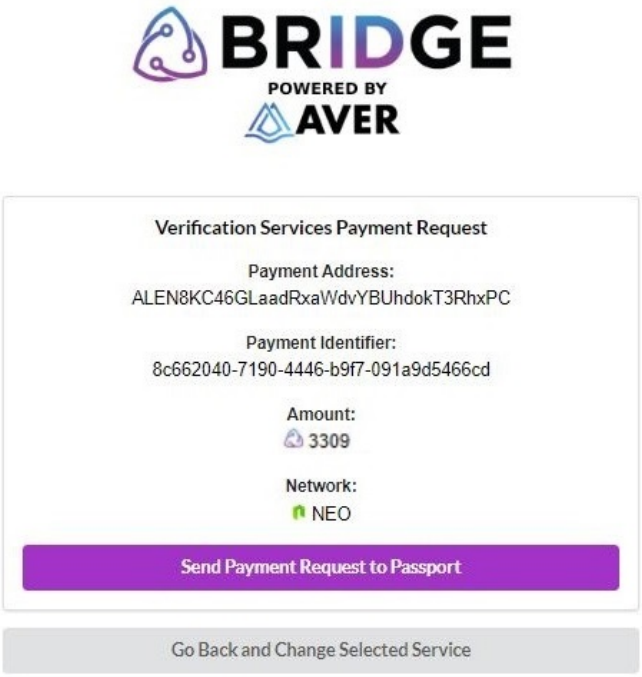
1. **Login with your passport**



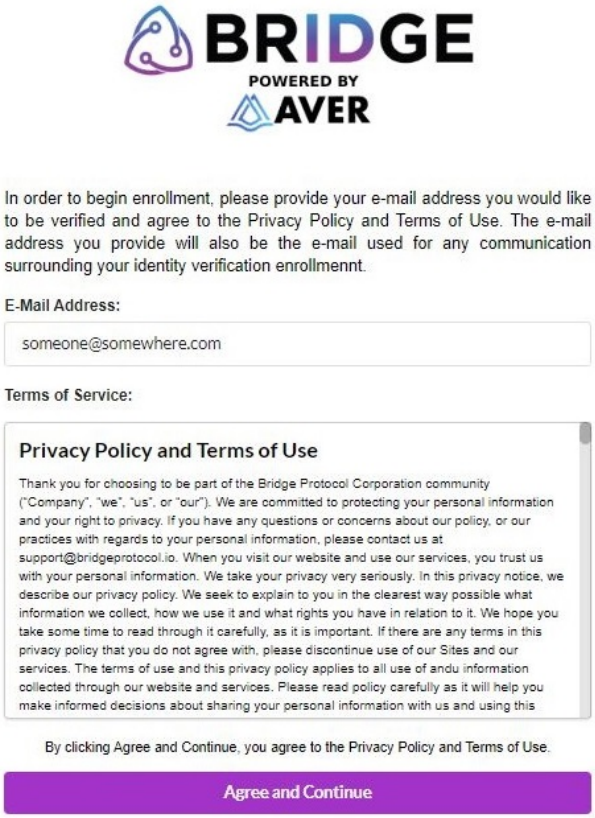
2. **Select your desired service**



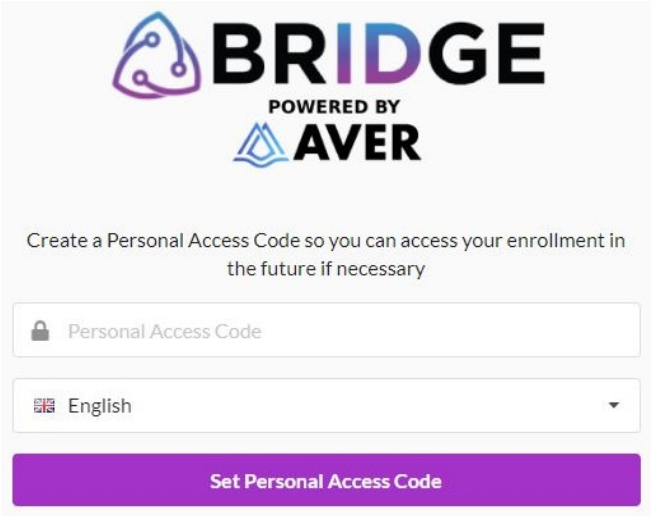
3. **Make the BRDG Payment for Services**



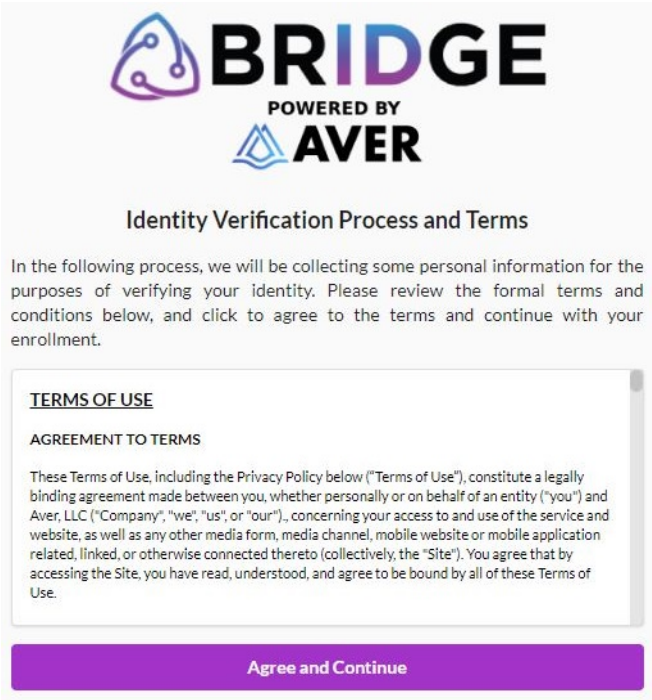
4. **Enter your E-Mail address to continue**



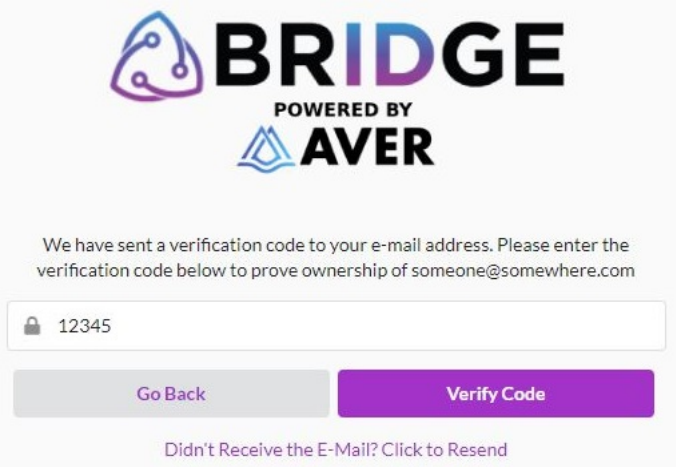
5. **Create a personal access code**



6. **Agree to the identity verification Terms of Service**

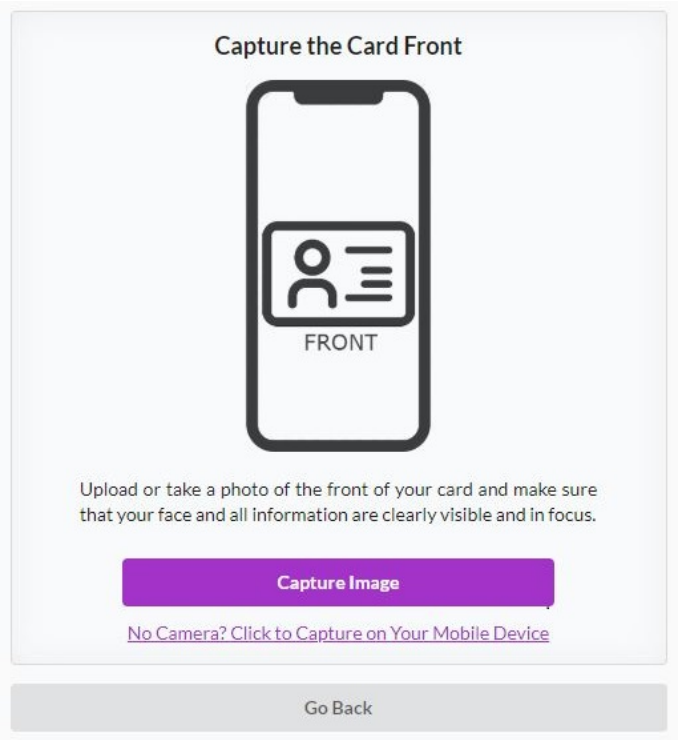


7. **Verify your e-mail address**



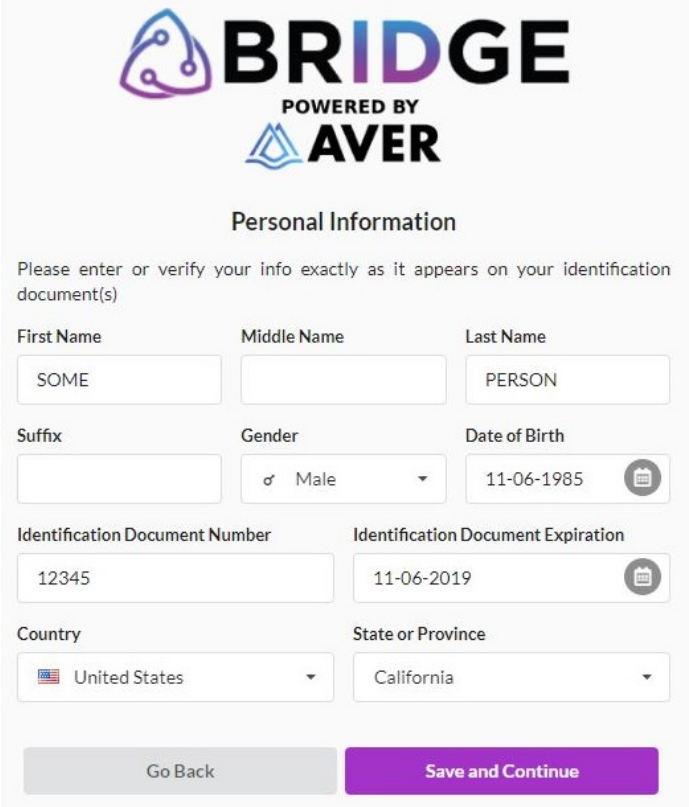
8. **Choose your identification document type**

9. **Capture your identification document**

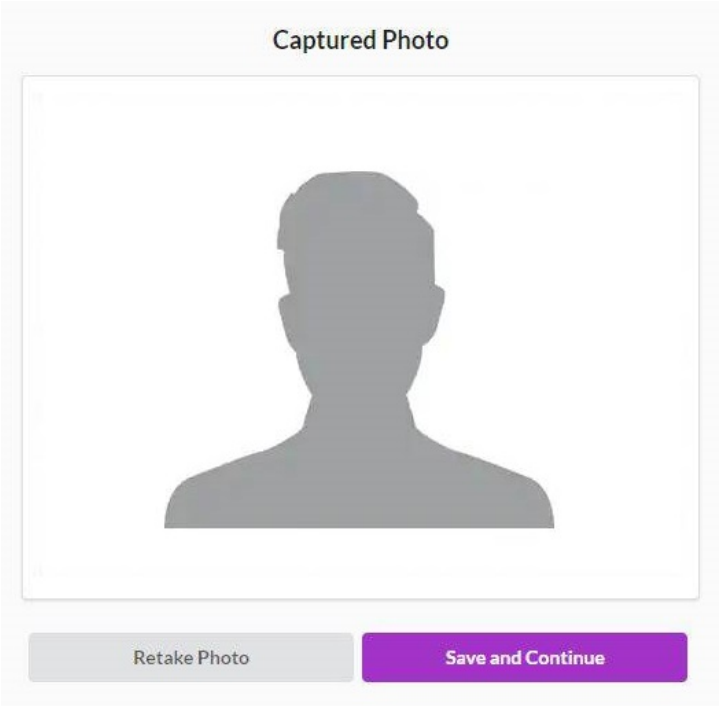


NOTE: If you are capturing on a device that does not have a camera, you can use your mobile device to capture your documents and images. Simply click on the link and scan the QR code to allow capture on a mobile device. Once complete, you can continue the process on the original device.

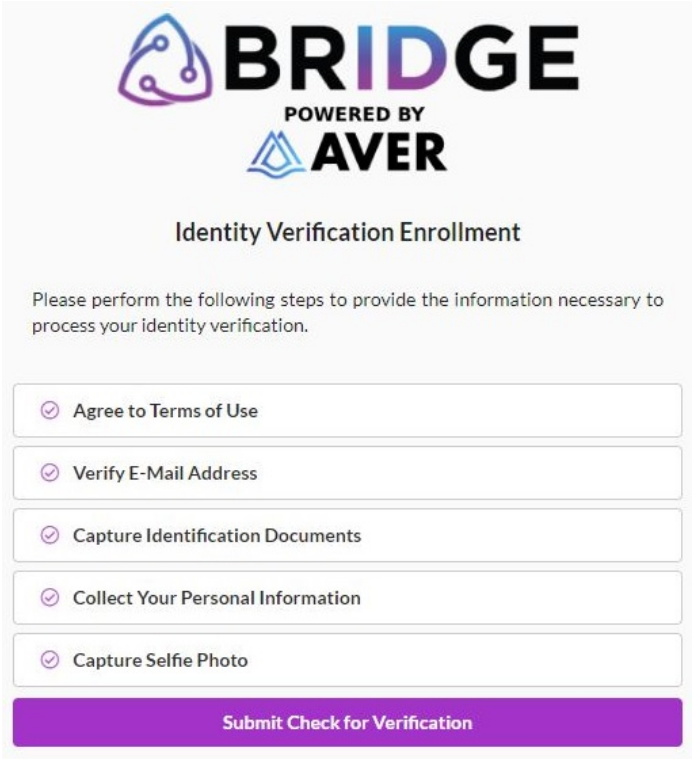
10. Verify or enter your personal information



11. Capture your portrait / selfie photo



12. Verify all steps are complete and submit the check for verification



Retrieving Verification Results

Finding the verification request status

After completing the verification process, you will see a verification request status information page. To view this at any time after enrollment, simply click the verification partner link in the verification request in your passport.

Bridge Verification Request Information	
Bridge Application Id:	b69c36a8677e4ccb8877de10a28d5866
Bridge Passport Id:	da1e8c5975b158eab6bf5b8c4d5632965176e304
Verification Status:	Complete [View Verified Results]

Viewing verification results

If the verification request is complete, a link will appear next to the status to allow you to see the information that was successfully verified. Simply click the link next to the status to see your verified claims.

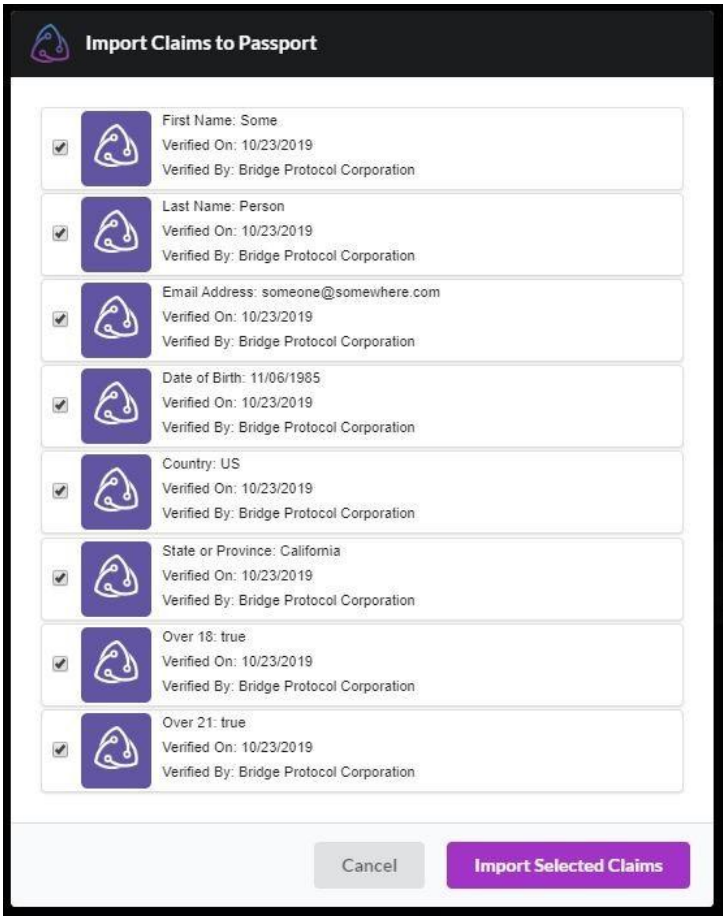
Bridge Verified Claims	
First Name	Some
Last Name	Person
Email Address	someone@somewhere.com
Date of Birth	11/06/1985
Over 18	true
Over 21	true
Country	US
State or Province	California

Send Import Request to Passport

(Bridge Passport must be open to import claims)

Importing the verified results (claims) to your passport

Now that the information has been verified for you and packaged into verified claims, you need to import them into your Bridge Passport so you can provide this information via the Bridge Protocol to other Bridge Network Partners. To import the verified claims, click the link on the page to send the import request to your passport.



When a verified claim import request is received, a dialog will be displayed by the passport to allow you to choose which claims should be imported to your passport. Simply select which claims to import and click the button to import the claims. Your verified information area of the passport will refresh with the new imported claims in your passport.

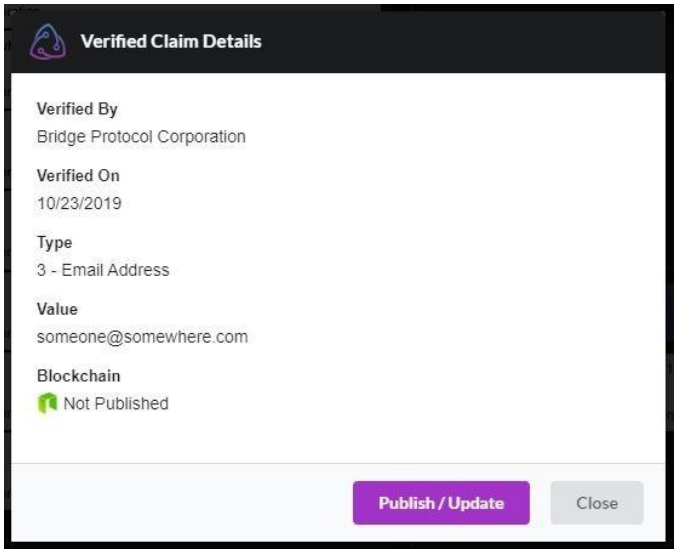
NOTE: You can only have a single verified claim of each Bridge Protocol claim type in your passport. Any existing claims of the same type will be overwritten with the new claim.

PROTIP: This is an important time to back up your Bridge Passport so you have your verified claims you just imported backed up. In some cases you can go back to the Bridge Marketplace Partner site and re-import the claims, but that is at the discretion of each partner whether or not they make the claims available in the future.

Publishing Verified Information to the Blockchain

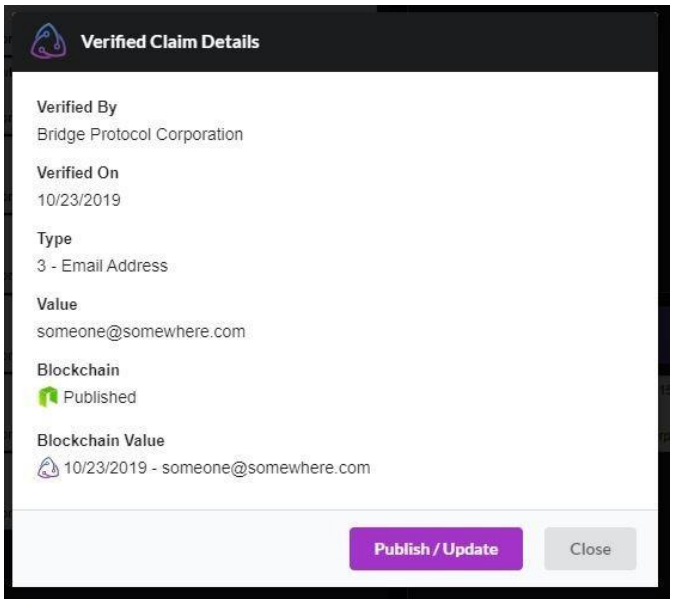
Viewing the verified claim details

Once you have verified claims in your passport, simply click on the claim and you can view the verified claim details including when it was verified, by whom, and whether or not it is published to the blockchain.



Publish the verified claim to the blockchain

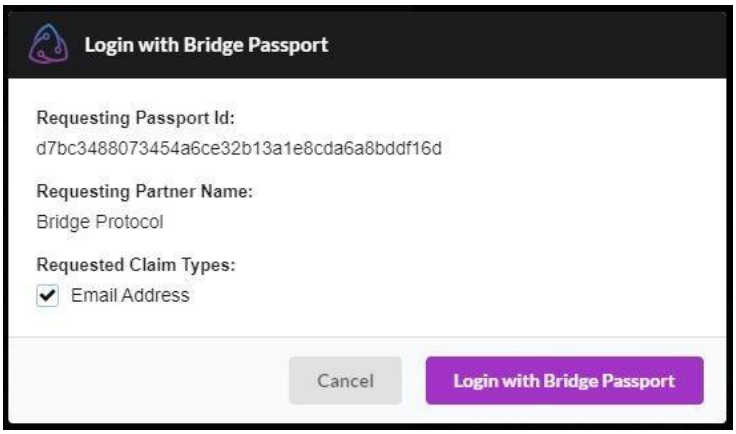
If you wish to allow NEO dApps and smart contracts to have access to your verified claims, they need to be published to the blockchain. To publish the verified claim to the NEO blockchain, simply click the button to public / update the claim to the blockchain and it will write or update the value of that claim type on the blockchain permanently. Once published, the values on the blockchain will be displayed in the claim details dialog.



Providing Verified Information to Bridge Network Partners

Websites

You can use your verified information to login to partner websites and provide claims about yourself at your discretion. Any network partner that has integrated with the network can request claims from you directly from their site and you can securely provide those claim values to them at your discretion.



Blockchain dApps

Distributed Applications (dApps) on the NEO Blockchain can access your published claims directly from the blockchain via their Smart Contract or with a direct storage query to any NEO node. See https://github.com/bridge-protocol/bridge-protocol-neo-keyserver-documentation for more information.

Appendix A - Definitions

Bridge Protocol Corporation - A US based company that owns and manages the Bridge Network and all Bridge Protocol related open source projects. Bridge Corporation is also a Bridge Marketplace Partner for identity verification (KYC) and anti money laundering (AML) services on the network.

Bridge Protocol - The secure messaging and secure claims transmission protocol that all peer-to-peer communication and all Bridge Network communication uses. See https://github.com/bridge-protocol/bridge-protocol-js for more information.

Bridge Token (BRDG) - The NEO Blockchain NEP5 token that is the currency for network fees and service fees for Bridge Marketplace Partners on the Bridge Network

Bridge Network - The network run by Bridge Protocol Corporation to manage passport blacklists, vetting of Bridge Network Partners and Bridge Marketplace Partners, and to facilitate communication between passport users and Bridge Marketplace Partners.

Bridge Network Partner - Any organization that is registered with the Bridge Network that supports Bridge Protocol authentication and authorization via verified claims

Bridge Network Explorer - The Bridge Network explorer that shows all claim types, Bridge Network Partners, and recent verification requests on the network. This can be found at https://explorer.bridgeprotocol.io/

Bridge Marketplace - The collection of organizations offering verification services in exchange for BRDG on the Bridge Network

Bridge Marketplace Partner - An organization vetted by Bridge Protocol Corporation that offers verification services on the Bridge Marketplace

Verification Request - A request made via the Bridge Network to a Bridge Marketplace Provider to perform verification services for the passport user.

Verified Claim - The portable secure data package containing verified information about the passport user created by a Bridge Marketplace Provider in response to a verification request

NEO Blockchain - The NEO Smart Economy blockchain. See https://neo.org/