

Selene Network Gallery Creation

Every Selene Network install is expected to have its own gallery which is managed by the website owner. The gallery holds the Selene Network compatible NFT smart contracts that the website wants to display.

When the Selene Network code is originally installed, the configuration file ('dsnreadme.php') references a Gallery contract of the project creator. Inside this configuration file, you will want to adjust the 'GalleryAddr' field to your Gallery smart contract to your own Gallery smart contract.

Because gallery contracts can hold information supporting multiple galleries, the configuration file also has a 'GalleryIndex' field that should be set to the index that will be shown as the default. If no index is provided, the code will display the most current registered gallery.

Basic Idea

The Gallery smart contract is simply a list of Selene Network compatible smart contracts that are selected by the website owner and recorded for display.

When the core code reads the Gallery smart contract, it displays the most recent entry first. This means that as new projects are added to the gallery, older projects fall off the end of the display. The default number of projects to show can be adjusted in the core display, but the install default is a dozen.

Launching

When you installed the Selene Network core code, one of the files that was extracted from the zip file was 'galleryv1_*.zip.'

Download that file locally and extract the contents. That is the source code, bytecode and ABI for the contract.

To launch the contract on-chain, visit [ThetaScan.io](https://thetascan.io) and visit the "Smart Contract HQ." When there, click "Deploy Contract."

NOTE – you have to have Metamask connected to the website in order to launch a contract. It must also hold enough tfuel and be connected to the Theta Mainnet.

SECOND NOTE – the account that is active in Metamask will be the owner of the Gallery smart contract. Make sure to use an account that can be used for other Selene Network functionality.

Deploying the Contract

The required ABI and bytecode are both provided for you from the 'galleryv1_*.zip' file. Using notepad.exe, open each file, copy the contents, and paste it into the appropriate edit control.

Once done, click the next button.

At this point, confirm the cost and then Metamask will be launched to complete the transaction.

NOTE – save the contract address that is returned. This is your Gallery smart contract address.

Interacting with your Gallery smart contract

Once your Gallery is launched, navigate to the ‘Interact With’ section of ThetaScan’s “Smart Contract HQ.” There, it will prompt for the contract address and ABI. Provide both and click the next button.

It is at this point that you can craft data to send to your Gallery smart contract.

The dropdown listbox allows you to select the function you want to write to (or read from) and if it requires data, you will be prompted for it.

To add a Selene Network compatible NFT smart contract, select the ‘add’ function and provide the Selene Network compatible NFT smart contract address when prompted. When you press ‘write’ button and Metamask will be launched to write the provided address to the Gallery smart contract.

NOTE – the only account that will be able to write to the Gallery smart contract is the account that originally minted the contract.

Testing the Gallery

Any Selene Network installation can be used to check the contents of your Gallery. To do this, simply add ‘?gallery=your_gallery_address’ to the URL and the core code will decode your new gallery and display it.

If you register multiple gallery files to the same contract, you can specify what index’d version should be displayed by using ‘&index=N’ where N is the index into the contract.

Once your gallery is installed in the drnreadme.php file, any install will allow you to review the contents of the file by visiting the following API endpoint:

<https://yourserver.ext/dsn/api/gallery>.

Viewing the gallery JSON file this way also helps when managing which index you want to have the Selene Network unroll.

Limitations

The Gallery smart contract is designed to record information, not remove it. This is aligned to the idea that no agent should be locked out of getting their commissions for making a sale. Thus, any contract that is added to the Gallery smart contract can be indexed from zero to the count of entries. This way projects can still be found even though they may no longer be displayed by the website owner.