



Mosaic
Galaxy

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DEVNET

Onboarding Guide

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Devnet Onboarding Guide

The DEVNET ONBOARDING process has several objectives:

- It allows validator owners to try and practice the connection process on the Devnet, so they can easily perform the necessary steps during the mainnet onboarding.
- Beyond developer testing, Devnet usage provides feedback from a real environment, enabling the implementation of new requirements and the correction of errors before the mainnet launch.

Thus, the Devnet onboarding is essentially an extensive user test conducted in an environment identical to the live system (mainnet), with the same number of users and load.

Devnet onboarding consists of a multi-step installation, registration, and connection process, each step of which is supported by detailed documentation. While none of the individual steps are particularly complex, they require attention and accuracy. Please do not attempt to complete the onboarding process intuitively or without reading the documentation! Several names, passwords, and codes must be set at various stages. These names and passwords must be carefully written down and stored in a secure place! Developers cannot view, modify, or reset them. If access is lost, the entire process must be restarted.

The Devnet Onboarding Guide consists of several chapters that build on each other::

1. Devnet Onboarding Guide (Includes SubWallet User Manual)
2. Mosaic Validator OS – Installer program Via Usb Stick Guide
3. Mosaic Validator Node – Installation Bios Setup Guide
4. Mosaic Validator Node – Installation Guide
5. Mosaic Validator – Onboarding Guide
6. Web Office Onboarding – NFT merger Guide
7. Delegator NFT Mint Guide

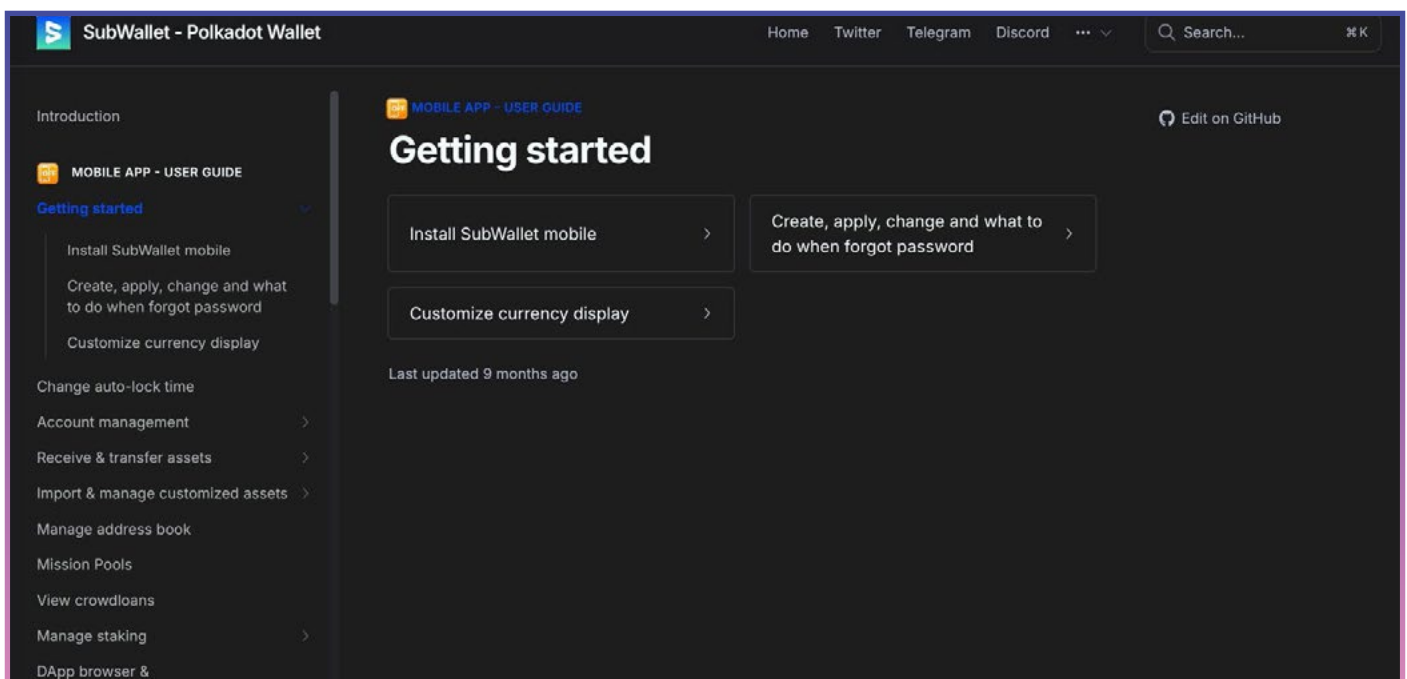
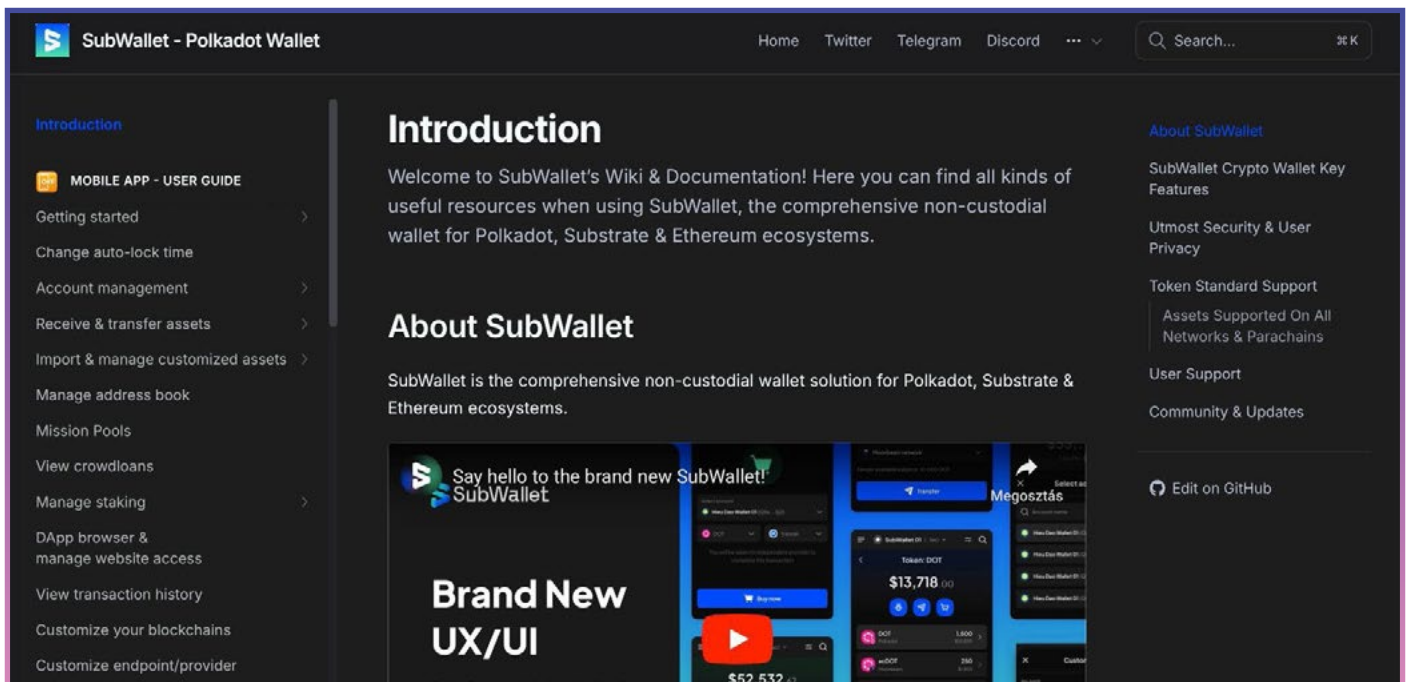
It is recommended to perform the setup processes in the specified order!

You can find the SubWallet user guide, which is available exclusively in English, by clicking the link below.

Please note that this wallet is not our product, so the translation of the guide is not within our control. However, the documentation is very thorough and provides a step-by-step walkthrough of the connection process. Thanks to the included illustrations, the guide is easy to follow for anyone.

<https://docs.subwallet.app/main>

The chapters of the user guide can be found on the left side of the page.



NFT Addresses

It is critical that NFTs are sent to the correct address. NFTs sent to the wrong address are unrecoverable through development tools and are permanently lost, including associated validator rights. In all other cases, restarting the entire process provides a solution if something goes wrong or gets stuck. (If you send an NFT to the wrong address during Devnet onboarding, you will simply be excluded from the process. However, the same mistake on the mainnet will result in real financial loss!)

Support

We can provide support only in cases where:

- The issue is not covered in the provided documentation, or
- An unknown error message occurs.

For troubleshooting, we need:

- A description of the activity being performed and the exact step you were at
- The last interaction (e.g., which button was last clicked)
- A screenshot showing the error. If you're at a stage like validator OS installation (where screenshots are not possible), a readable photo taken with a phone is acceptable.
- The configuration used for onboarding (available in your account).

We will not address any inquiries that do not include a screenshot of the issue until such an image is provided. If needed (e.g., if there's no visible error on the screenshot), please include a description of the expected behavior, the actual behavior, and why it is incorrect (e.g., didn't load, disconnected, etc.).

STEPS AND REQUIREMENTS FOR DEVNET ONBOARDING

This section is not intended to repeat the content of the onboarding manuals but to provide a brief overview of the process.

Requirements

Basic Requirement – NFT Selection/Use in the Merge Process

Users who wish to use a Delegator NFT (including special NFTs received for testing) or POS Validator NFT in the merge process (also called installment process) must first complete the steps on the Merge site. The Merge Guide is available in a separate document.

IMPORTANT: The Merge and Mint processes are IRREVERSIBLE once executed on the blockchain! Carefully consider your options before proceeding!

Requirement 1 – SUBWALLET Account Address

All NFTs will be stored in the SubWallet. Only one validator NFT can be assigned to a single SubWallet account. Multiple accounts can be created in one SubWallet, but each can hold only one validator NFT!

Requirement 2 – WEB OFFICE (WEBIRODA)

In the web office, you can merge Delegator NFTs (including test-specific NFTs), and initiate the process of sending validator and merged NFTs to the blockchain. A dedicated menu option is provided for this.

Validator rights were no longer issued after 2025.04.01. The merge process begins now, generating mintable NFTs continuously. There is no direct link between the web office and the blockchain for security reasons; data is exchanged once per week. This means all standard validator rights will appear after the first data exchange. However, newly merged NFTs will only be visible on the blockchain after the next data exchange, which can take up to a week. Therefore, it is recommended to check the mintability of merged NFTs every few days. If minting is not possible after 168 hours, contact support using the method described above.

DEVNET ONBOARDING – BLOCKCHAIN-SIDE PROCESS

1. Create as many wallet addresses in SubWallet as you have validator NFTs.
2. Mint all NFTs you do not intend to use for the Merge into their respective SubWallet accounts.
3. Download the Validator OS to a USB drive from the provided link using the given helper tools. The download and write process takes 3–15 minutes depending on internet speed and server response time.
4. Prepare all necessary components for the Validator OS installation as per the documentation! Also prepare a device for taking photos/screenshots and a secure location to store all names and passwords!
5. Install the Validator OS on your validator machine. During this process, your machine will be registered in the Mosaic Blockchain VPN network. Use unique names and strong passwords! The validator machine will automatically download the required data to join the validation process. This is called synchronization (or sync).
First, blockchain data is synchronized (takes 15–60 minutes depending on internet speed). Then, the Indexer will sync (to ensure validator production and blockchain operational data are visible in the Mosaic Blockchain Explorer).
Indexer synchronization can take 2–6 hours or more, depending on block height and connection speed.
The sync resumes from where it left off in case of interruption.
NFT–validator machine linking is only possible on a fully synchronized chain.
6. If relocating the validator machine, follow proper shutdown procedures as per documentation. If you don't wish or are unable to validate, use the **Chill** function (pause) after connecting the NFT to avoid penalties and maintain chain stability.

7. Once blockchain synchronization is complete, you can connect your NFT (in SubWallet) to the blockchain and complete the Devnet onboarding.
8. Wait until the Indexer is fully synced. Then you will see token production on the mosaicchain.io Explorer.
9. TMOS (Test Mosaic Coin) distribution will start once enough validators have joined the Devnet. This is based on the number of nodes, not time—so we cannot provide an estimate for when this will happen.

IMPORTANT NOTES & ADDITIONAL INFORMATION

- Delegator NFTs can be minted and transferred, but their functional delegation capabilities are not yet activated.
- Pre-token quantities distributed during Devnet onboarding will not change or update. This is intentional. On mainnet, real-time quantities will be maintained.
- The mainnet onboarding process is identical to the Devnet onboarding. All steps must be repeated. NFTs sent to the mainnet will require a new SubWallet account. The same names and passwords may be reused but must be manually re-entered.
- In less than 5% of cases during developer testing, one component download during the Validator OS USB write process was slow or failed, requiring a restart. A fix is underway to reduce these occurrences, though complete elimination cannot be guaranteed. If it occurs frequently under high load, a patch will be released.
- We aim to release video guides in addition to written manuals within a couple of weeks.

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