

integer.works

A next-generation NFT swapping platform

Introduction

integer.works is a Non-Fungible Token (NFT) swapping platform that allows users to trade multiple NFTs quickly and securely through an intuitive user interface.

NFTs have risen in popularity as a medium for buying, selling, and owning digital collectibles. From art to music to video and even functional digital products, NFTs allow for true ownership of digital assets. They exist on the blockchain and create digital scarcity with reliable verification.

As unique digital collectibles, NFTs can be bought and later resold by users. They are most commonly resold on secondary marketplaces like Blur or OpenSea. These marketplaces provide useful features for users to find, buy, and sell NFTs, but offer no functionality for users to directly trade NFTs amongst each other.

Swapping NFTs is a highly in-demand feature for many NFT collectors and integer.works seeks to provide users with a seamless and secure NFT trading experience.

Seamless

The integer.works platform offers unrivaled functionality in a unified, comprehensive, and intuitive platform. Users can swap multiple NFTs in one trade, browse, search, and sort according to a variety of parameters, and even use ETH to balance trades (as a premium feature).

Secure

Every swap is performed via Integer's smart contracts, so the risks associated with trading NFTs in a purely peer-to-peer swap are minimized. Users must verify and confirm any swap they wish to engage in, and the swaps themselves are automatically executed on-chain, eliminating any possibility of one party disappearing before sending the NFTs they've promised.

In addition, the built-in automatic collection verification feature protects against fraudulent NFT collections (i.e. NFT collections that look identical to well-known collections but are fake copies, often with malicious code).

Premium features

Passes provide a premium-tier experience for any user who wishes to purchase one. From swap insurance to trade balancing to reduced fees, gasless fees on Polygon, and access to a number of exclusive holder benefits.

User flow

The following is a rundown of how to use the integer.works platform:

1. **Connect** your Ethereum or Polygon wallets to the integer.works platform.

This allows the platform to securely manage the trade and ensures that the assets are moved safely.

2. **Select** the NFT or NFTs you want to swap.

Select the NFT (or bucket of multiple NFTs and ERC20 tokens) you would like to swap.

3. **Sign** a transaction to transfer your assets to the smart contract.

Once the trade is confirmed, your assets are temporarily moved to the integer.works' NFT Trader smart contract. This ensures that the assets are secure and protected throughout the trading process.

4. A **proposal** appears on the dashboard giving counterparties the opportunity to propose an equivalent NFT to swap.

5. The **counterparty** can propose an NFT (or bucket of multiple NFTs and ERC20 tokens) they would like to swap. They sign a transaction to transfer their NFT to the integer.works smart contract and the platform fee is paid from each user's wallet (50/50 split).

6. You then **verify** the trade information through a provided link.

You will receive a link containing all the information necessary to verify the trade. This includes information about the assets being traded and the conditions of the trade.

7. You can now **accept** or **refuse** the swap.

Once the trade information has been verified, you can either accept or refuse the counterparty's proposed trade. If you accept the swap, in which case you must sign another transaction to confirm the swap and finalize the trade.

8. Assets are **automatically transferred** to the counterparties.

Once the blockchain confirms the transaction, the assets will be automatically transferred to the connected user wallets of those participating in the trade.

9. **Cancellation**

If the trade request is not confirmed by the counterparty, you have the option to cancel the trade. This will send your assets directly back to your wallet.

Platform pricing

integer.works takes a flat commission of 0.025 ETH per swap. The commission is paid by both parties immediately upon completion of the swap. In addition to this flat fee, users must pay the gas fees required to transfer their NFTs.

For a swap between two users, each user would pay:

- A **flat commission fee** of 0.025 ETH (each user pays 50%, i.e. 0.0125 ETH a piece).

- **Gas fees** for transferring the NFTs from their wallets to the NFT Trader smart contract and from the smart contract to the counterparty's wallet. The exact cost of gas fees depends on the current cost of gas at the time of the transaction.

For integer.works Pass holders, gas fees are covered by integer.works on the Polygon blockchain for all swaps (more in the integer.works Pass section below).

Technical specifications

Swap Engine

Behind the scenes, integer.works uses 2 smart contracts to execute swaps:

1. **NFT Trader Contract** – This contract performs the swap itself and requests parameters from the second contract.
2. **Dynamic Parameter Contract** – This contract holds various factors such as commissions and verifies whether each user holds an integer.works Pass.

All swaps occur on-chain and are performed by smart contracts. integer.works does not act as an intermediary in transactions and does not hold NFTs in custody for executing swaps.

Fraud Protection

integer.works offers a Fraud Protection feature as a security measure to verify that the NFTs being traded belong to genuine collections. During the Verification stage of the swap, the smart contract address of each NFT is automatically compared with that of the collection to which it purportedly belongs.

For example, the Bored Ape Yacht Club (BAYC) smart contract address is 0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d. Any NFT that claims to be BAYC but does not come from the official smart contract would automatically be identified as fraudulent by the verification check.

If the smart contract address of the NFT matches that of the original collection, a “Verified” icon will appear next to the NFT, informing the user that they are trading for a verified authentic NFT.

integer.works pass

integer.works offers a premium tier of features to **integer.works pass holders**.

Connecting a wallet that holds an integer.works Pass to the integer.works platform enables features such as trade balancing, reduced commissions, gasless swaps on Polygon, and swap insurance, among others.

The **first 500 NFT passes** will be available for early community members to purchase in **May 2023** and will grant holders access to all premium features forever. Those who purchase passes within the first week of the drop will be able to buy them for the discounted price of **0.05 ETH**, after which time the passes will be available for the normal price of **0.07 ETH**.

Premium features

To access integer.works’ premium features, you must connect a wallet holding an integer.works NFT pass to the platform. Here’s how to do it:

1. Connect your Ethereum wallet to the integer.works platform: The platform will verify that you hold a valid NFT pass.
2. Press the “Enable Functionality” button
3. Sign the transaction initiated by the platform to allow it to identify the NFT pass in your wallet.
4. Once the contract has identified the NFT pass, a green badge will appear in the upper right-hand corner. When you hover over it, it should say “NFT pass has been identified.”
5. You can now access integer.works’ premium features.

Trade Balancing

integer.works allows you to execute swaps consisting of multiple NFTs from different collections in one transaction. However, sometimes the value of the NFTs being traded does not match up exactly.

For this reason, we've created **Trade Balancing** as a premium feature.

With Trade Balancing, integer.works pass holders can add ETH to the trade to balance the value of the swap. In this case, the wallet performing the trade must contain an ETH balance.

To balance a trade by adding ETH:

1. Connect your Ethereum wallet to the integer.works platform.
2. Select the listing for which you would like to swap your NFTs.
3. Select the NFT or NFTs from your wallet that you would like to swap.
4. Propose trade balancing and offer additional ETH to balance the trade.

Reduced Fees

integer.works pass holders enjoy a **reduced platform commission fee** on **all swaps**.

Instead of paying 0.0125 ETH for their share of the swap commission, holders pay just half that, or **0.00625 ETH per swap**.

Gasless Swaps on Polygon

For integer.works pass holders who collect and trade NFTs on Polygon, **all gas fees** for **all swaps** are **covered by integer.works**.

In addition, some users might not want to bother topping up their wallets with crypto, or might not be familiar with how to obtain it. To avoid using crypto to pay gas fees, premium users can pay for swap commissions using credit/debit cards, and integer.works will cover all gas fees on Polygon for them.

Prioritized Swap Listing

When listing their NFTs for swaps, integer.works pass holders will be **prioritized on the website**. Their listings will be featured prominently and in higher positions than non-premium users, increasing their chances of finding a suitable trading partner.

Exclusive Community Access

The integer.works pass serves as a membership token to access the exclusive integer.works community, where members can vote and benefit from interactions within the community:

1. **Outstanding proposal rewards:** integer.works will provide financial support to execute ideas that benefit the ecosystem.
2. **Exclusive content:** Panel discussions with Web3 experts will only be accessible to holders.
3. **Discounts:** Holders enjoy discounts on physical goods released by integer.works and products released by Integer's partners.

integer.works DAO

integer.works pass holders will be able to vote on proposals for further development on the integer.works platform. Each holder will gain access to a token-gated channel on Discord to vote on proposals submitted by project moderators.

integer.works pass specs

Open-mint: integer.works uses an open-mint model to sell the NFT passes used to fund our operations. There is no secondary market for the NFT passes, meaning no speculation can arise. The integer.works pass can only be purchased from the official platform site.

Soulbound NFTs: integer.works uses soulbound tokens to reduce wash-trading on the

platform. Soulbound tokens can't be transferred to other wallets, limiting new wallet creation and moving the pass between them for premium functionality.

How to be one of the first to receive the pass?

Join our **Discord** to qualify for the whitelist and get early access!