



## YDFI\_FINANCE (YFD)

Smart Contract Partial Audit —  
Function\_Mint And Constructor Audit

**NASDAX.CO**

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For Portal By Nasdax



## SMART CONTRACT PARTIAL AUDIT REPORT

Security And Fairness Status

# SAFE / FAIR



**CONTRACT NAME :** YfDFI\_finance

**CONTRACT ADDRESS :** 0x4F4F0Ef7978737ce928BFF395529161b44e27ad9

## 01.INTRODUCTION

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The Partial Audit is valid for [0x4F4F0Ef7978737ce928BFF395529161b44e27ad9](#) Ethereum smart contract. [YfDFI.finance](#) asked us to review the “Constructor function” and “Function\_Mint” in their YFD token smart contract ([0x4F4F0Ef7978737ce928BFF395529161b44e27ad9](#)).

[Nasdaq Security Team](#) reviewed the YfDFI\_finance (Contract Name) smart contract and YFD Token deployed on Ethereum Network Mainnet on Block number 11042811 by Oct-12-2020 08:03:39 PM +UTC.  
(Txn Hash: 0xcb62f74708a6b3071d24ae1d4e16c3c6c28c2da3d05e421a0dd93902ea6b5d75).

The audit is valid for [0x4F4F0Ef7978737ce928BFF395529161b44e27ad9](#) contract address only.

## 02.AUDIT SUMMARY

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The YfDFI.finance (YFD) is a Non-Mintable ERC-20 Token. The smart contract code is clean, fair and safe. YFD is based on the latest version of ERC-20 source code standard and strictly following the official guidelines from OpenZeppelin source code provider. The visibility and state mutability of all the functions are clearly specified, and there is no confusion.

No new token can be minted. The [0x4F4F0Ef7978737ce928BFF395529161b44e27ad9](#) YfDFI\_finance Maximum supply is 20,000 YFD and Always will be.

**Audit Result :** PASSED (SAFE AND FAIR)

**Level of “\_Mint” Risk :** PASSED (NO NEW TOKEN CAN BE MINTED)

## 03.AUDIT METHODOLOGY

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Nasdaq Security Team manually reviewed Constructor and \_Mint function of the YFD smart contract, following industry best practices and looking for any potential back doors due to Function\_Mint.

Nasdaq Security Team also used the military level-grade automated process for analysing and reviewing these both function in the YFD smart contract. These tools and automated script looking for any internal or external possibilities to Mint after Construction process. Our process simulate an unfair use of Function\_Mint even if it can be used once by Constructor function during the contract deployment only.

#### 04.WHAT YOU CAN FIND IN YDFI\_FINANCE SMART CONTRACT?

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YfDFI\_finance smart contract uses a constructor combined with a temp Mint function which can be used once for the unique contract deployment. When a contract is created, its constructor (a function declared with the constructor keyword) is executed once.

These values are immutable: they can only be set once during construction. It became impossible to call these functions after contract deployment and total supply construction, 20,000 YFD Total is the maximum supply and always will be.

Line 306 to 313 / **RESULT : APPROVED**

```
constructor (string memory name, string memory symbol) public {
    _name = name;
    _symbol = symbol;
    _decimals = 18;
    _mint(msg.sender, 20000000000000000000000000);
}
```

Line 482 to line 490. / **RESULT : APPROVED**

```
function _mint(address account, uint256 amount) internal virtual
{
    require(account != address(0), "ERC20: mint to the zero address");
    _beforeTokenTransfer(address(0), account, amount);
    _totalSupply = _totalSupply.add(amount);
    _balances[account] = _balances[account].add(amount);
    emit Transfer(address(0), account, amount);
}
```

**Function\_Mint is mandatory to mint token supply. Executed with and from constructor, it allows to Mint once only.**

## 05. WHY DO NOT BURN ADMIN KEY AS MINTER AND GOVERNANCE OWNER?

There is No Minter\_Role ou Burner\_Role in YFD Smart Contract. There is No setGovernance function.

`setGovernance` function does not exist in YFD contract and can't be called by input data transaction or other way because it doesn't exist.

Minter\_Role and Burner\_Role do not exist in YFD smart contract and can't be called by input data transaction or other way because it doesn't exist.

Few smart contracts have this function, that's why they have to send to their smart contract address these following "Input Data" transactions to burn or remove them:

Function: setGovernance(address \_governance)

MethodID: 0xab033ea9

[0]:

[illegible]

Function: removeMinter(address \_minter)

MethodID: 0x3092afd5

[O]:

[illegible]

In Ydfi\_finance smart contract case, **Minter\_Role, setGovernance and Mint function after construction do not exist in their smart contract.** It is impossible to interact with these functions because they do not exist. No need to remove no existing functions.

**RESULT :** APPROVED, SAFE AND FAIR



## 08. PURPOSE OF THE REPORT

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The Audits and the analysis described therein are created solely for Clients and published with their consent. The scope of our review is limited to a review of Solidity code and only the Solidity code we note as being within the scope of our review within this report. The Solidity language itself remains under development and is subject to unknown risks and flaws. The review does not extend to the compiler layer, or any other areas beyond the Solidity programming language that could present security risks. Cryptographic tokens and smart contracts are emergent technologies and carry with them high levels of technical risk and uncertainty. The Audits are not an endorsement or indictment of any particular project or team, and the Audits do not guarantee the security of any particular project. This Report does not consider, and should not be interpreted as considering or having any bearing on, the potential economics of a token, token sale or any other product, service or other asset. Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. No Report provides any warranty or representation to any Third-Party in any respect, including regarding the bug-free nature of code, the business model or proprietors of any such business model, and the legal compliance of any such business. No third party should rely on the Audits in any way, including for the purpose of making any decisions to buy or sell any token, product, service or other asset. This Report does not constitute investment advice, is not intended to be relied upon as investment advice, is not an endorsement of this project or team, and it is not a guarantee as to the absolute security of the project. There is no owed duty to any Third-Party by virtue of publishing these Audits.

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