



SMART CONTRACT SECURITY AUDIT

Fair Trader

December, 2021

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 07.12.2021

Contract Name: **BurgerERC20**

Deployed address: **0x32151D601f6578399136c57030890FbB48eDE685**

Total Supply: **109,987,293**

Token Tracker: **bFTP**

Decimals: **18**

Token holders: **175**

Transactions count: **3,050**

Top 100 holders dominance: **99.89%**

Audit Details



Project Name: **Fair Trader**

Language: **Solidity**

Compiler Version: **v0.6.6**

Blockchain: **BSC**

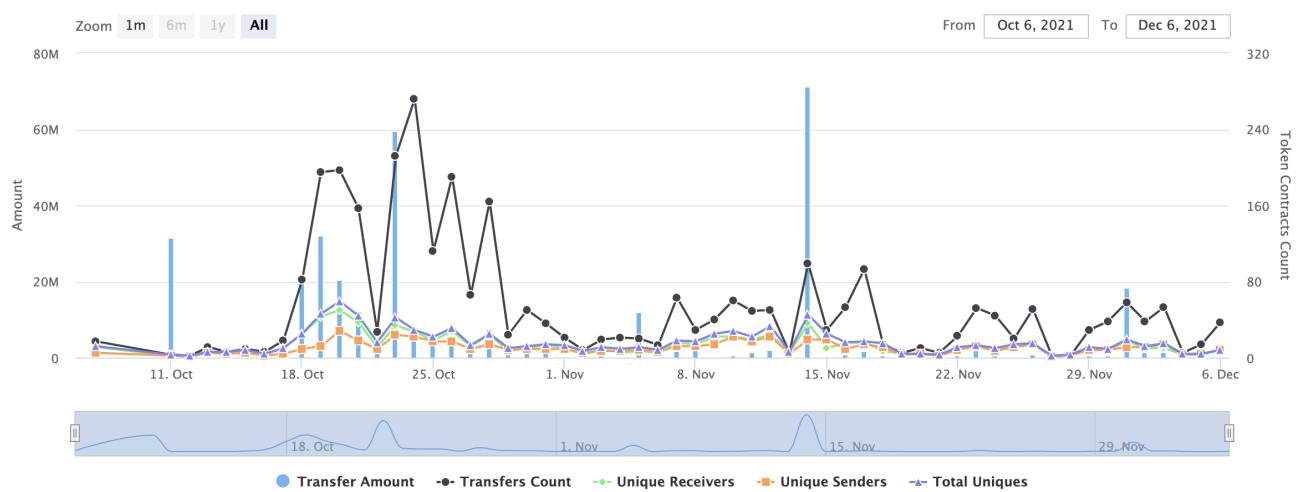
Social Profiles

Project Website: fairtrader.io

Project Twitter: <https://twitter.com/fairtraderftp>

Project Channel info: <https://t.me/FairTraderFriends>

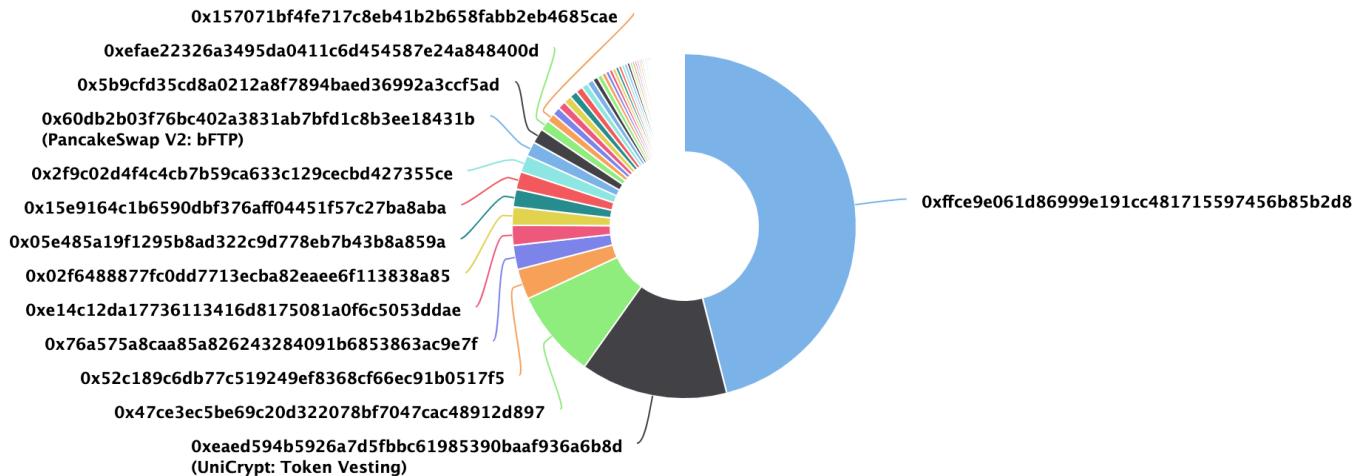
Contract Analytics



KYC Passed

CEO of Fair Trader project has passed KYC verification on behalf of Soken team. All personal data received from audited company will remain private until any fraudulent activity will happen.

bFTP Token Distribution



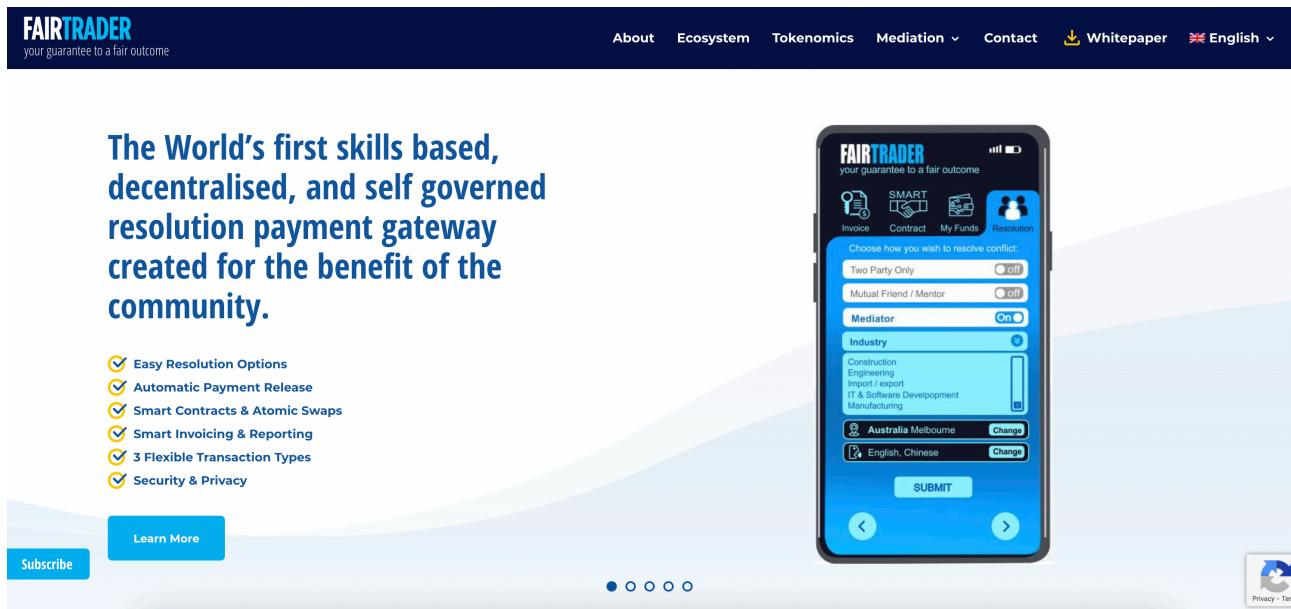
Swap Analysis

- ✓ Token is sellable (not a honeypot) at this time
- ✓ Buy fee is <= 10% (0%)
- ✓ Sell fee is <= 10% (0%)

Contract Analysis

- ✗ Verified contract source
- ✗ No prior similar token contracts
- ✓ Source does not contain a proxy contract
- ✓ Source does not contain a pausable contract
- ✓ Ownership renounced or source does not contain an owner contract.

Project Website Overview



The screenshot shows the FAIRTRADER project website. At the top, there's a dark header bar with the FAIRTRADER logo and navigation links: About, Ecosystem, Tokenomics, Mediation, Contact, Whitepaper, and English. Below the header, a large blue text box highlights the project's mission: "The World's first skills based, decentralised, and self governed resolution payment gateway created for the benefit of the community." To the right of this text is a mobile phone mockup displaying the FAIRTRADER app interface, which includes sections for Invoice, SMART, Contract, My Funds, and Resolution, along with various configuration options like conflict resolution methods and industry selection. At the bottom left are "Subscribe" and "Learn More" buttons, and at the bottom right is a "Privacy - T&C" link.

- ✓ JavaScript errors hasn't been found.
- ✓ Malware pop-up windows hasn't been detected.
- ✓ No issues with loading elements, code, or stylesheets.

Project Website SSL Certification



fairtrader.io

Issued by: cPanel, Inc. Certification Authority

Expires: Sunday, January 16, 2022 at 6:59:59 PM Eastern Standard Time

✓ This certificate is valid

> Trust

Project Website Performance Audit



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

- First Contentful Paint

0.8 s

- ▲ Speed Index

7.5 s

- Largest Contentful Paint

1.6 s

- Time to Interactive

2.1 s

- Total Blocking Time

110 ms

- Cumulative Layout Shift

0.07

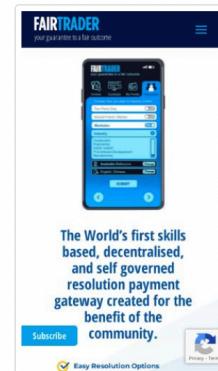
Project Website Optimization for Mobile



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

- ▲ First Contentful Paint

3.5 s

- ▲ Speed Index

21.7 s

- ▲ Largest Contentful Paint

7.8 s

- ▲ Time to Interactive

10.9 s

- ▲ Total Blocking Time

1,760 ms

- Cumulative Layout Shift

0.055

Whitepaper of the project

The whitepaper of Fair Trader project has been verified on behalf of Soken team.

Contents

- 4. Executive Summary
- 6. Our Vision
- 7. Today's challenges
- 8. Fair Working World
- 9. The Solution
- 10. Developing FTP Platform
- 11. Transaction Options
- 12. Dispute Resolution Process
- 13. FTP Product Suite
- 14. Transaction Flow
- 16. Ecosystem
- 17. Why Blockchain?
- 19. Fair Trader Coins
- 20. Token Flow
- 21. Trust Score Rating
- 23. Our Roadmap
- 24. Fair Trader Faces
- 25. Governance
- 26. Disclaimer
- 27. Case Studies (2017)



Whitepaper link: <https://fairtrader.io/wp-content/uploads/2021/11/FTP-Whitepaper-Upload-1.pdf>

Contract Function Details

- + [lib] SafeMath
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
 - [Int] mod
 - [Int] mod
- + BurgerERC20.sol
 - [Pub] initialize
 - [Prv] _transfer
 - [Ext] approve
 - [Ext] transfer
 - [Ext] transferFrom
 - [Ext] mint
 - [Ext] burn

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Conclusion

Smart contracts are free from any low, medium or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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