



SMART CONTRACT SECURITY AUDIT

WATCHTOWER

DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





OVERVIEW

Watchtower was commissioned by SmileSwap to complete a Smart Contract audit.

The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



SMART CONTRACT REVIEW



Contract Created on the 24th February 2022

Solidity compiler v0.8.9

Contract name	SmileSwap
Contract address	0x74Dda58c57257461Cc96e46A5c1094141A507aEf
Total supply	60,000,000~
Token ticker	SMILE
Decimals	18
Token holders	Not Launched
Transactions count	N/A
Top 5 holders dominance	N/A
Tax fee	6%
Total fees	6% ~ BUY / 6% ~ SELL
Contract deployer address	0x2454e383BdE9401C13f00555D004592A94D7cB2d
Contract's current owner address	0x2454e383BdE9401C13f00555D004592A94D7cB2d



Project Overview

Project Details: (Website: <https://smileswap.finance>)

SmileSwap is the DEX for New token and yield farming protocol designed to reward its holders through passive staking, swaps on Binance Smart Chain (BSC)

SmileSwap is a decentralized exchange (DEX) built on the Binance Smart Chain network focused on new projects! - SmileSwap is working on multiple projects which include a Decentralized Bet System, NFT Project and SmileRewards.

Tokenomics:

Supply: 60,000,000 (60 Million)

6% Tax for Buys and for Sells comprising of:

- **5% Marketing Fee**
- **1% Liquidity**

Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The SmileSwap team have a very good understanding of Cryptocurrency.

Their Social media has a strong following and their Website is professionally made.

TEAM DOXXED/KYC:

Watchtower is not aware of the team being Doxxed or completing KYC at this point in time.



CONTRACT FUNCTIONS DETAILS

Functions (Public)

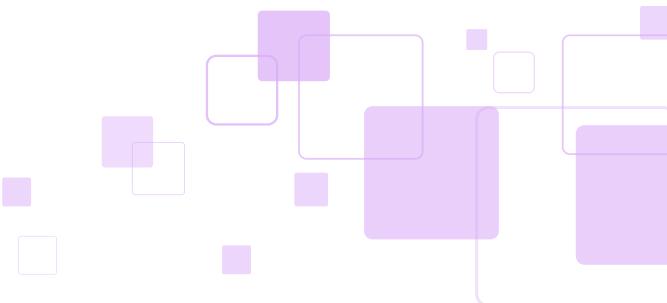
This contract has a 18 available public functions which the owner can call. They can be viewed on the Etherscan link below.

LINK:

<https://bscscan.com/address/0x74Dda58c57257461Cc96e46A5c1094141A507aEf#writeContract>

Function risks:

No scam functions identified.



Contract Stress Test

Imported Libraries / Interfaces

- Reviewed through Solidity Files.

Overview

1.ADDITION OF COMMENTS:	10
2.CALL STACK DEPTH ATTACK:	10
3.TIME STAMP DEPENDENCY:	10
4.PARTY MULTISIG BUG:	10
5.USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES):	10
a.TRANSACTION-ORDERING DEPENDENCY:	10
6.ACCESS CONTROL AND AUTHORIZATION:	10
7.REENTRANCY ATTACKS:	10
8.ERC/BEP STANDARD VIOLATIONS:	10
9.USAGE OF VISIBILITY LEVELS:	10



ISSUES CHECKING STATUS



Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed



Issue description	Checking status
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed



SECURITY ISSUES



High Severity Issues

Nil



Medium Severity Issues

Nil



Low Severity Issues

Mint Function evident in contract, The team has advised it is for Farming and Staking Rewards. It is recommended to be used under a MasterChef.



CONCLUSION

Watchtower reviewed SmileSwaps deployed smart contact on the Binance Smart Chain to conduct this audit.

Watchtower is satisfied the team is operating with integrity as they removed any severity issues from the contract that was audited before launch.

Watchtower Disclaimer:

Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk.

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