



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 Urbano Network 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 21st January 2022

Solidity compiler v0.8.11

Contract name	Urbano Network
Contract address	0x5c51f955322ae1543767f38EFd8E61ccEc43dEA9
Total supply	787,000,000,000
Token ticker	URBANO
Decimals	18
Token holders	0
Transactions count	0
Top 5 holders dominance	Not Launched
Tax fee	13%
Total fees	13% ~ BUY / 13% ~ SELL
Contract deployer address	0x1490ADfAEee4266Cba72D7b4479B825d37f55f23
Contract's current owner address	0x6Bbe033f09c26Da5103c3bA4364E8cbd1330B3Be



Project Overview

Project Details: (Website: <https://urbano.network>)

Urbano Network is a music genre entertainment network that will host music events on the metaverse. Their Token \$URBANO will be used as a digital currency to buy tickets and will also have staking capabilities.

Tokenomics:

Supply: 787,000,000,000 (787 Billion)

13% Tax for Buys and for Sells comprising of:

- **3% Marketing Fee**
- **3% Development Fee**
- **5% Liquidity/BuyBack Fee**
- **2% Social Projects Fee**

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 Urbano Network have a good understanding of Cryptocurrency and are currently development their platform and social media campaign. A full review was not possible to complete strengths and weaknesses of their Social Media following.

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)

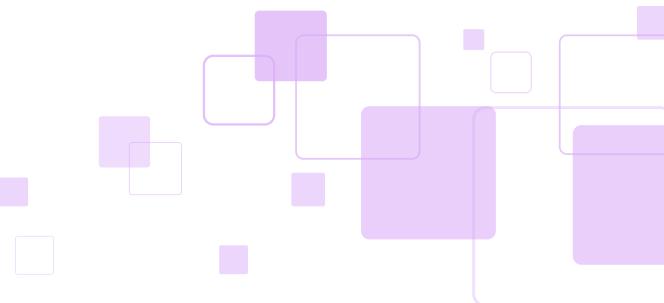
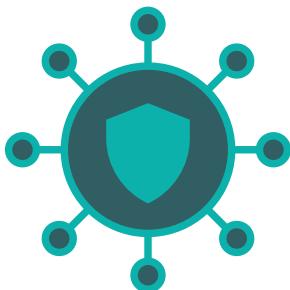
This contract has 26 available public functions which the owner can call. They can be viewed on BSC Scan once the contract is deployed.

LINK:

<https://bscscan.com/token/0x5c51f955322ae1543767f38efd8e61cc43dea9#writeContract>

Function risks:

- No scam functions identified, although it should be noted that the Owner can
 1. start/stop trading
 2. set fees to 100% blocking all trades
 3. set buy and sell limits to 0 blocking all trades



Contract Stress Test

Imported Libraries / Interfaces

- Ownable
- IERC20
- IERC20Metadata
- ERC20
- Context
- IUniswapV2Factory
- IUniswapV2Router02

Overview

1. ADDITION OF COMMENTS:	9
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

Possible issue when updating router address:

- If a pair already exists linked to the new router, `updateUniswapV2Router()` will fail when trying to create a new pair address.

Centralization Risk:

- The Owner can
- start/stop trading
- set fees to 100% blocking all trades
- set buy and sell limits to 0 blocking all trades



Low Severity Issues

Gas Optimisation:

- Each call of the `_transfer` method assigns a value to `overMinimumTokenBalance`. But since it is only used inside a “sell” operation, it is suggested to define it inside the sell operation only.



CONCLUSION

Watchtower reviewed Urbano Networks Smart contract via Github solidity files to conduct this audit.

Watchtower is satisfied that the contract is void of any malicious coding. Since the project is not yet launched the token allocation and tokenomics should be reviewed as a precaution.

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.

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

Contact Us

 @Watchtower_WTW

 Watchtower-WTW

 Watchtowercrypto

