

# Audit Report Immortl

January 2023

Network MATIC

Address 0x217F7dEad406C360b2fF676Bacd2C73db5a24089

Audited by © cyberscope



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## Review

Contract Name	OneImmortI_ERC20_IMRTL
<b>Testing Deploy</b>	https://testnet.bscscan.com/address/0x89f5b722d372cfc484f335747c5 6497fed01c3b3
Symbol	IMRTL
Decimals	18
Total Supply	400,000,000

## **Audit Updates**

Initial Audit	25 Jan 2023 https://github.com/cyberscope-io/audits/blob/main/1-imrtl/v1/audit.pdf
Corrected Phase 2	28 Jan 2023 https://github.com/cyberscope-io/audits/blob/main/1-imrtl/v2/audit.pdf
Corrected Phase 3	30 Jan 2023

### Source Files

Filename	SHA256
@openzeppelin/contracts/access/Ownable.sol	9353af89436556f7ba8abb3f37a6677249 aa4df6024fbfaa94f79ab2f44f3231
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a 23a4baa0b5bd9add9fb6d6a1549814a
contracts/OneImmortI_ERC20_IMRTL_optimized_ V2.sol	fbf99c1613e669a453012383c127d4ad27 c51719d05bca545e659d8b652a25ee

# Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

# Diagnostics

CriticalMediumMinor / Informative

	Severity Code Description		Status		
L04 Confo		L04	Conformance to Solidity Naming Conventions	Unresolved	



# L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	contracts/OneImmortI_ERC20_IMRTL_optimized_V2.sol#L8,156,163,199,211,218,2 25,236,241,271,281,291,314,321,322,323,434,443,463,491,515
Status	Unresolved

#### Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- Use uppercase for constant variables and enums (e.g., MAX\_VALUE, ERROR\_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.



#### Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.

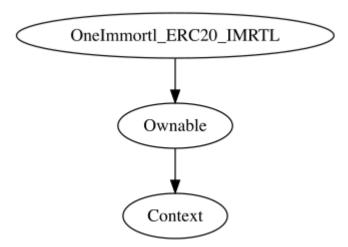
# **Functions Analysis**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Ownable	Implementation	Context		
		Public	1	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
OneImmortI_E RC20_IMRTL	Implementation	Ownable		
		Public	✓	-
	enableTrading	External	✓	onlyOwner
	setExcludedFromDisabledTransfer	Public	✓	onlyOwner
	setTaxWallet	External	✓	onlyOwner
	_setTax	Internal	✓	onlyOwner
	setTax	External	✓	-
	_setTaxTier	Internal	✓	
	setTaxTier	External	1	-
	setExcludedFromTax	Public	1	onlyOwner
	setLPToken	Public	1	onlyOwner



balanceOf	External		-
allowance	External		-
_approve	Internal	✓	
approve	Public	✓	-
increaseAllowance	Public	✓	-
decreaseAllowance	Public	✓	-
transfer	Public	✓	-
transferFrom	Public	✓	-
_transfer	Internal	✓	
_transferBase	Internal	✓	
_mint	Internal	✓	
_burn	Internal	✓	
burn	External	✓	-
takeTax	Internal	✓	
getTaxType	Internal		
getTaxTier	Internal		
getTaxPercent	Public		-
getMaxTaxPercent	Internal		

# Inheritance Graph





# Flow Graph





## Summary

Immortl is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors or critical issues. The Contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 20% fee.



#### Disclaimer

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Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.



## About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

https://www.cyberscope.io