SOLIDRATE

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SMART CONTRACT AUDIT

BLOCK CERTS

date 11 MAY 2024

Table Of Contents

Contract Details

Contract Address	0xBb1f919e70EcC55335548d76F5c15a9DC8f5808E
Contract Name	BLOCKCERT
Symbol	BCERT
Network	Ethereum
Compiler Version	v0.4.24+commit.e67f0147
Licence	default evmVersion, GNU GPLv3 license
Decimals	0
Max Total Supply	2,100,000,000
Deployer Address	0x5C5E330A04bcd81D9cdF54d808B65397493f84d8
Owner Address	0x5C5E330A04bcd81D9cdF54d808B65397493f84d8

Contract Analysis

Trading Security

Thorough manual examination of the code, including line-by-line analysis and a meticulous review of trading constraints, taxes, and owner privileges. Our assessment ensures a comprehensive understanding of potential security risks.

Trading Constraints

Safety Overview Passed Failed

Analysis	Results
No pause function	Passed
No trading cooldown function	Passed
No blacklist function	Passed
No whitelist function	Passed

Contract Features

Safety Overview

Passed

Failed

Analysis	Results
Fees below 5%	Passed
No max transaction amount feature	Passed
No max wallet feature	Passed
No limited transactions feature	Passed

Token Authority

Contract Checks

Our assessment covers meticulous contract checks to ensure industry standards compliance and a focused review of owner privileges for a secure token governance framework.

Safety Overview Passed Failed

Analysis	Results
Contract Verified	Yes
External Call Risk	No
Proxy Contract	No
Selft Destruct	No
Antibot	No
Antiwhale	No

Owner Privileges

Safety Overview Passed Failed

Analysis	Results
Ownership renounced	No
No regain ownership function	No
No hidden mint function	No
Modifiable taxes	No
Modifiable max amount or max transaction	No
No high amount owner token	Yes

Smart Contract Weakness Classification Security Analysis

Detected vulnerabilities during our security audit scan of the smart contract. Our assessment includes thorough SWC-Registry checks and overflow assessments.

Severity High Medium Low Passed

Id	Name	Error	Result
SWC-100	State Variable Default Visibility		Passed
SWC-101	Code With No Effects		Passed
SWC-102	Unencrypted Private Data On-Chain		Passed
SWC-103	Floating Pragma		Passed
SWC-104	Unchecked Call Return Value		Passed
SWC-105	Unprotected Ether Withdrawal		Passed
SWC-106	Unprotected SELFDESTRUCT		Passed
SWC-107	Reentrancy		Passed
SWC-108	State Variable Default Visibility		Passed
SWC-109	Uninitialized Storage Pointer		Passed
SWC-110	Assert Violation	An assertion violation was triggered. Note that Solidity assert() statements should only be used to check invariants. Review the transaction trace generated for this issue and either make sure your program logic is correct or use require() instead of assert() if your goal is to constrain user inputs or enforce preconditions.	Medium

Severity High Medium Low Passed

Id	Name	Error	Result
SWC-111	Use of Deprecated Solidity Functions		Passed
SWC-112	Delegatecall to Untrusted Callee		Passed
SWC-113	DoS with Failed Call		Passed
SWC-114	Transaction Order Dependence		Passed
SWC-115	Authorization through tx.origin		Passed
SWC-116	Block values as a proxy for time		Passed
SWC-117	Signature Malleability		Passed
SWC-118	Incorrect Constructor Name		Passed
SWC-119	Shadowing State Variables		Passed
SWC-120	Weak Sources of Randomness from Chain		Passed
SWC-121	Missing Protection against Signature Replay Attacks		Passed
SWC-122	Lack of Proper Signature Verification		Passed
SWC-123	Requirement Violation		Passed

Severity High Medium Low Passed

Id	Name	Error	Result
SWC-124	Write to Arbitrary Storage Location		Passed
SWC-125	Incorrect Inheritance Order		Passed
SWC-126	Insufficient Gas Griefing		Passed
SWC-127	Arbitrary Jump with Function Type Variable		Passed
SWC-128	DoS With Block Gas Limit		Passed
SWC-129	Typographical Error		Passed
SWC-130	Right-To-Left-Override control character (U+202E)		Passed
SWC-131	Presence of unused variables		Passed
SWC-132	Unexpected Ether balance		Passed
SWC-133	Hash Collisions With Multiple Variable Length		Passed
SWC-134	Message call with hardcoded gas amount		Passed
SWC-135	Code With No Effects		Passed
SWC-136	Unencrypted Private Data On-Chain		Passed

Community Trust

Our commitment to community trust extends to a thorough evaluation of social media channels, ensuring active engagement and responsiveness. Investor relations and partnerships are also scrutinized for credibility and transparency.

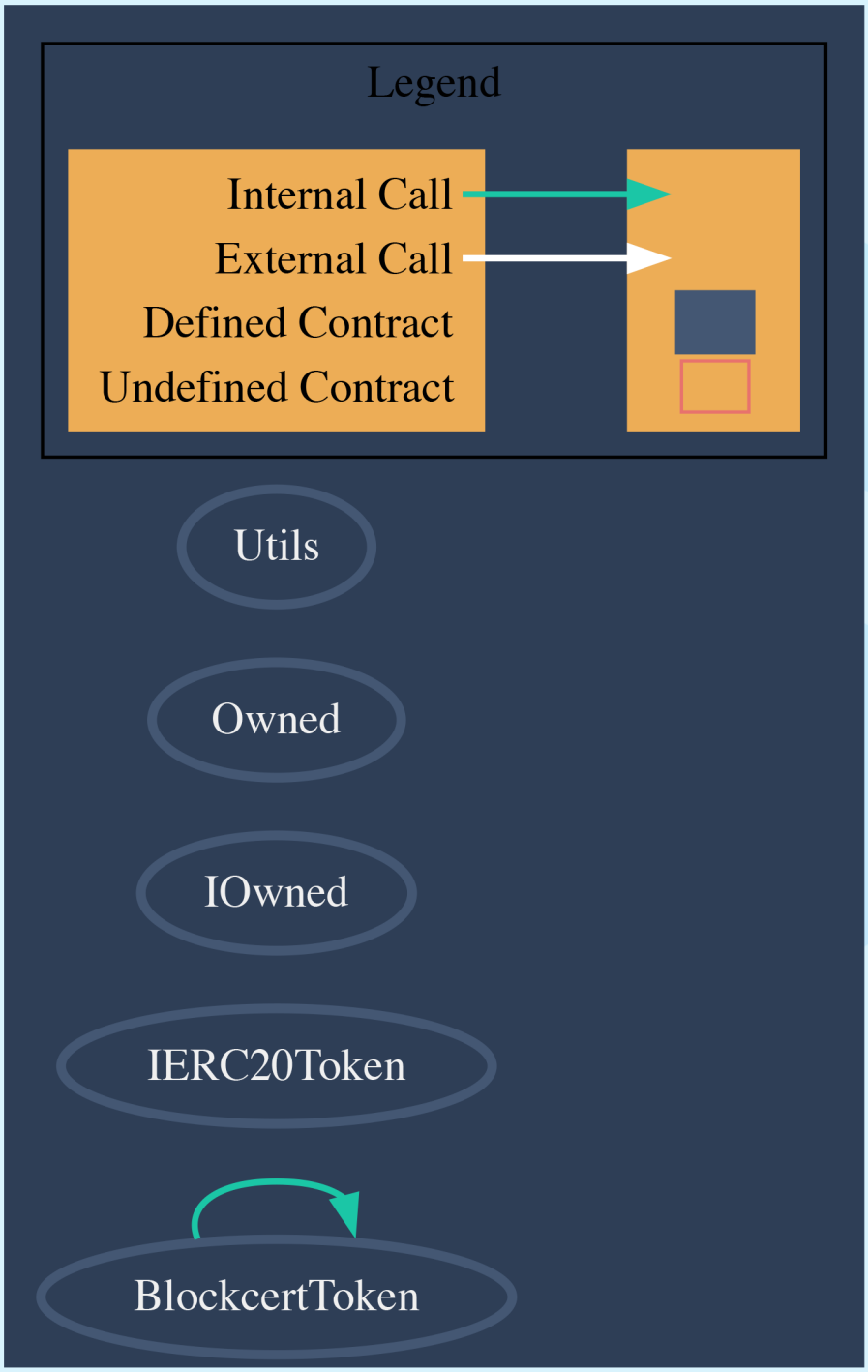
Social Media Presence

Website Health	Excellent	
Twitter	Moderate Activity	+1K Followers
Telegram	Low Activity	+300 Subscribers
Youtube	High Activity	+1K Subscribers
Discord	Not Available	

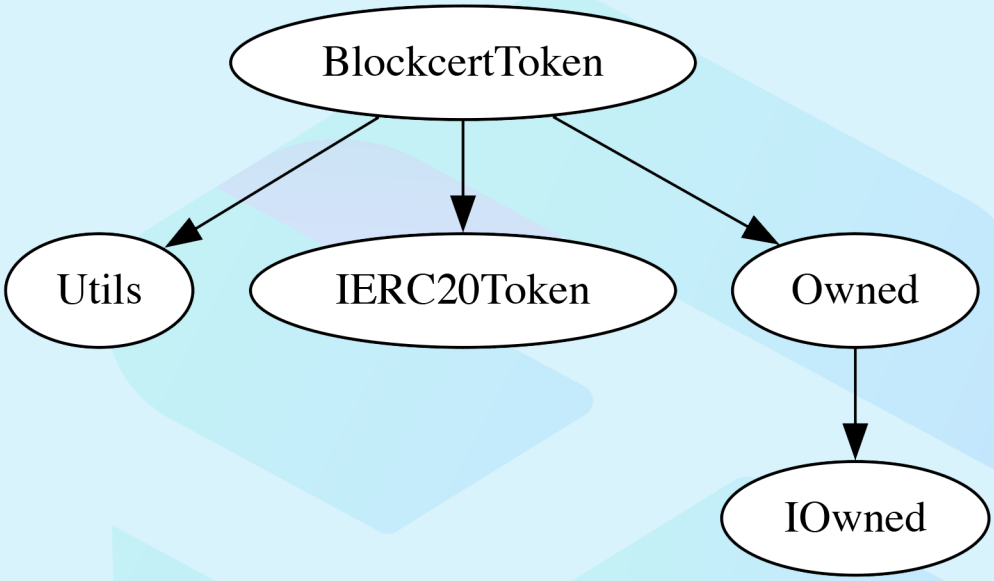
Listings and Partnerships

Listings	Not Available
Partnerships	Not Available

Contract Interaction Graph



Inheritance Graph



Audit Summary

Throughout the audit process, our team of auditors and smart contract developers conducted a cautious evaluation to identify security-related issues, code quality, and adherence to specification and best practices.

The smart contract does not contain high severity issues.

Security Score : 91%

Audit Methodology

Our smart contract audit methodology is designed to provide a thorough and comprehensive analysis of any contract code. We believe that a collaborative and multi-faceted approach is the best way to ensure the reliability and accuracy of our results.

Our audits are performed by experienced blockchain developers and security experts who work independently to provide a more comprehensive and accurate assessment. The auditors begin by reading the contract code to understand its structure and purpose, and examining the functional and technical requirements as well as other relevant documents provided by the client.

Next, automated tools are used in a controlled environment to search security vulnerabilities and best practices. These tools can help us identify potential vulnerabilities, such as Smart Contract Weakness vulnerabilities, and provide a more complete picture of the contract's functionality.

Data flow diagrams are generated to visualise all possible states and interactions with other contracts. This allows the auditors to track changes in data and funds flow and identify any potential issues or risks.

Line-by-line review of the contract code is conducted to check for hidden malicious code or other security risks. This meticulous and thorough review is essential for protecting our clients' interests and ensuring the success of their projects.

Once the audit is complete, we provide a comprehensive report on our findings and recommendations. Our methodology is standardised to ensure consistent and reliable results, and we are committed to providing our clients with the information they need to improve the security and functionality of their contracts. By conducting a thorough and comprehensive audit, we can help our clients protect their interests and ensure the success of their projects.

Disclaimer

This audit report is intended to provide a comprehensive analysis of the contract code and its potential vulnerabilities. The findings and recommendations in this report are based on our best efforts and knowledge at the time of the audit, but they are not guaranteed to be complete or accurate.

All smart contract audits performed by us are provided for informational purposes only, and should not be considered legal or financial advice. We do not guarantee the security or functionality of any smart contracts that we audit, and we shall not be liable for any losses or damages arising from the use of any audited smart contracts.

We recommend that our clients carefully review the report and consider its findings and recommendations, but they should not rely on it as the sole basis for making any decisions regarding the contract. We encourage our clients to conduct their own independent analysis and seek additional advice as needed. This report is provided for informational purposes only, and it does not constitute legal, financial, or other professional advice. It does not create any warranties, representations, or guarantees, and it does not establish any legal or contractual obligations.

By accepting this report, our clients acknowledge and agree to the terms of this disclaimer. We appreciate the opportunity to conduct the audit and provide our findings, and we are committed to assisting our clients in any way we can.