

Audit Report eBit

February 2024

Network ETH

Address 0x4f14ba78a51925ee934c373a2cf56b2d8da63f7f

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

Critical
Medium
Minor / Informative

Severity	Code	Description	Status
•	L19	Stable Compiler Version	Unresolved



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Review

Contract Name	EBit
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	200 runs
Explorer	https://etherscan.io/address/0x4f14ba78a51925ee934c373a2cf 56b2d8da63f7f
Address	0x4f14ba78a51925ee934c373a2cf56b2d8da63f7f
Network	ETH
Symbol	EBIT
Decimals	18
Total Supply	100,000,000
Badge Eligibility	Yes

Audit Updates

Initial Audit	24 Feb 2024

Source Files

Filename	SHA256
contracts/EBit.sol	8a423186c43618064440c2ca80e9dd26 86756656b610f6f984031158b43d1c8c
@openzeppelin/contracts/utils/Strings.sol	cb2df477077a5963ab50a52768cb74ec 6f32177177a78611ddbbe2c07e2d36de



@openzeppelin/contracts/utils/StorageSlot.sol	51c993d87ee6096af06f8701d84972727 51c8cc9c9c2b31e67a3087d5f2302df	
@openzeppelin/contracts/utils/ShortStrings.sol	0f1abe1770f7e80f0b9221aac780424a4 2e5c64b9814aa735d28115a0f549915	
@openzeppelin/contracts/utils/Counters.sol	2fdcb1343e5621385b62e57b5c777560 7c272122b6f2dc77da8f84828aa40cd0	
@openzeppelin/contracts/utils/Context.sol	b2cfee351bcafd0f8f27c72d76c054df9b 571b62cfac4781ed12c86354e2a56c	
@openzeppelin/contracts/utils/math/SignedMat h.sol	420a5a5d8d94611a04b39d6cf5f024925 52ed4257ea82aba3c765b1ad52f77f6	
@openzeppelin/contracts/utils/math/Math.sol	85a2caf3bd06579fb55236398c1321e15 fd524a8fe140dff748c0f73d7a52345	
@openzeppelin/contracts/utils/cryptography/EIP 712.sol	6403cb83154d37ce7030e1b94f07766a 6dd20835c4a691bcff87870810df15e2	
@openzeppelin/contracts/utils/cryptography/EC DSA.sol	445963619903cee339e49aa2d7a0b07c fad90959529fff136394429c4a92d554	
@openzeppelin/contracts/token/ERC20/IERC20.	7ebde70853ccafcf1876900dad458f46e b9444d591d39bfc58e952e2582f5587	
@openzeppelin/contracts/token/ERC20/ERC20.s ol	d20d52b4be98738b8aa52b5bb0f88943 f62128969b33d654fbca731539a7fe0a	
@openzeppelin/contracts/token/ERC20/extensions/IERC20Permit.sol	bbf4d26d660ce8f9c9887af3a46bf4eab5 f4c15eb8413ad89b65ecdd05dee7a9	
@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb98261 66689e55dc037a7f2f790d057811990	
@openzeppelin/contracts/token/ERC20/extensions/ERC20Permit.sol	89bfb6393150001a5e394e9347ba4addf 460b3579450a6caa28ae7d1f24e427c	
@openzeppelin/contracts/token/ERC20/extensions/ERC20Burnable.sol	0344809a1044e11ece2401b4f7288f414 ea41fa9d1dad24143c84b737c9fc02e	



@openzeppelin/contracts/interfaces/IERC5267.s ol	72424d3a7a9b7d1c3584d4ec83bf116f3 0dfaf7180298a32669eefacb55ccb92
@openzeppelin/contracts/access/Ownable.sol	a8e4e1ae19d9bd3e8b0a6d46577eec09 8c01fbaffd3ec1252fd20d799e73393b



Findings Breakdown



Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	1	0	0	0



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	contracts/EBit.sol#L2
Status	Unresolved

Description

The _______ symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.8.19;
```

Recommendation

The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.

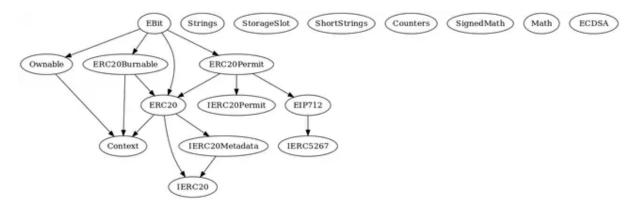


Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
EBit	Implementation	ERC20, ERC20Burna ble, Ownable, ERC20Permi t		
		Public	✓	ERC20 ERC20Permit

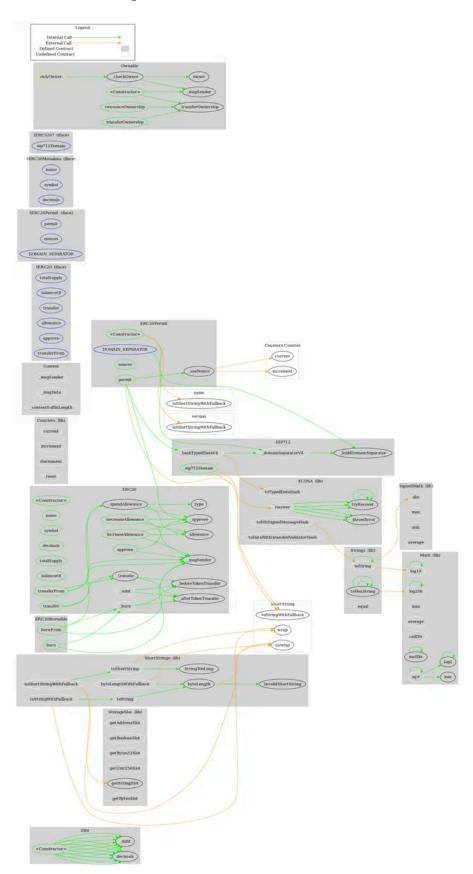


Inheritance Graph





Flow Graph



Summary

eBit contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. eBit is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error 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.

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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

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