



Cyberscope

Audit Report

Bananace

May 2023

Network BSC

Address 0x3194e783fdbaff5edacb71afb6e4c8d7aa67ac61

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Review

Contract Name	ERC20TokenOB
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Explorer	https://bscscan.com/address/0x3194e783fdbaff5edacb71afb6e4c8d7aa67ac61
Address	0x3194e783fdbaff5edacb71afb6e4c8d7aa67ac61
Network	BSC
Symbol	NANA
Decimals	18
Total Supply	696,969,696,969,696

Audit Updates

Initial Audit	12 May 2023 https://github.com/cyberscope-io/audits/blob/main/nana/v1/audit.pdf
Corrected Phase 2	14 May 2023 https://github.com/cyberscope-io/audits/blob/main/nana/v2/audit.pdf
Corrected Phase 3	17 May 2023

Source Files

Filename	SHA256
@openzeppelin/contracts/access/Ownable.sol	9353af89436556f7ba8abb3f37a6677249a a4df6024fbfaa94f79ab2f44f3231
@openzeppelin/contracts/token/ERC20/ERC20.sol	bce14c3fd3b1a668529e375f6b70ffdf9cef 8c4e410ae99608be5964d98fa701
@openzeppelin/contracts/token/ERC20/extensions /ERC20Burnable.sol	0344809a1044e11ece2401b4f7288f414ea 41fa9d1dad24143c84b737c9fc02e
@openzeppelin/contracts/token/ERC20/extensions /IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166 689e55dc037a7f2f790d057811990
@openzeppelin/contracts/token/ERC20/IERC20.sol	94f23e4af51a18c2269b355b8c7cf4db800 3d075c9c541019eb8dcf4122864d5
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a2 3a4baa0b5bd9add9fb6d6a1549814a
contracts/interfaces/IPinkAntiBot.sol	8a41eb6e4420666d592566e7b99eccc149 b7e91b238f5933564ac6d8e8a50671
contracts/tokens/ERC20TokenOB.sol	2c26f2f279ef0dcfb73ec56b766fa5575635 f18ca92b3425d81dc3b9016248d9

Findings Breakdown



● Critical	0
● Medium	0
● Minor / Informative	3

Severity	Unresolved	Acknowledged	Resolved	Other
● Critical	0	0	0	0
● Medium	0	0	0	0
● Minor / Informative	3	0	0	0

Analysis

● Critical ● Medium ● Minor / Informative ● Pass

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
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	RDE	Redundant Decimals Extension	Unresolved
●	RMO	Redundant Mint Override	Unresolved
●	L19	Stable Compiler Version	Unresolved

RDE - Redundant Decimals Extension

Criticality	Minor / Informative
Location	contracts/tokens/ERC20TokenOB.sol#L29
Status	Unresolved

Description

The contract implements the Openzeplin ERC20 standard. According to the ERC20 standard, the decimals are 18. The contract overrides the decimals method. This method returns the same number as the ERC20 standard. As a result, the override is redundant.

```
function decimals() public view virtual override returns (uint8) {  
    return DECIMALS;  
}
```

Recommendation

The team is advised to remove the decimals override since it will produce the same result.

RMO - Redundant Mint Override

Criticality	Minor / Informative
Location	contracts/tokens/ERC20TokenOB.sol#L40
Status	Unresolved

Description

The contract executes the mint method once in the constructor. The `mint()` method is overridden by the contract to allow only non-zero mints. Since the mint method is called once in the constructor, then the override of the mint method is redundant.

```
function _mint(address account, uint256 amount) internal virtual override {  
    if (amount > 0) {  
        super._mint(account, amount);  
    }  
}
```

Recommendation

The team is advised to remove the override of the `mint()` method since it will produce the same result.

L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	contracts/tokens/ERC20TokenOB.sol#L3
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 ^0.8.17;
```

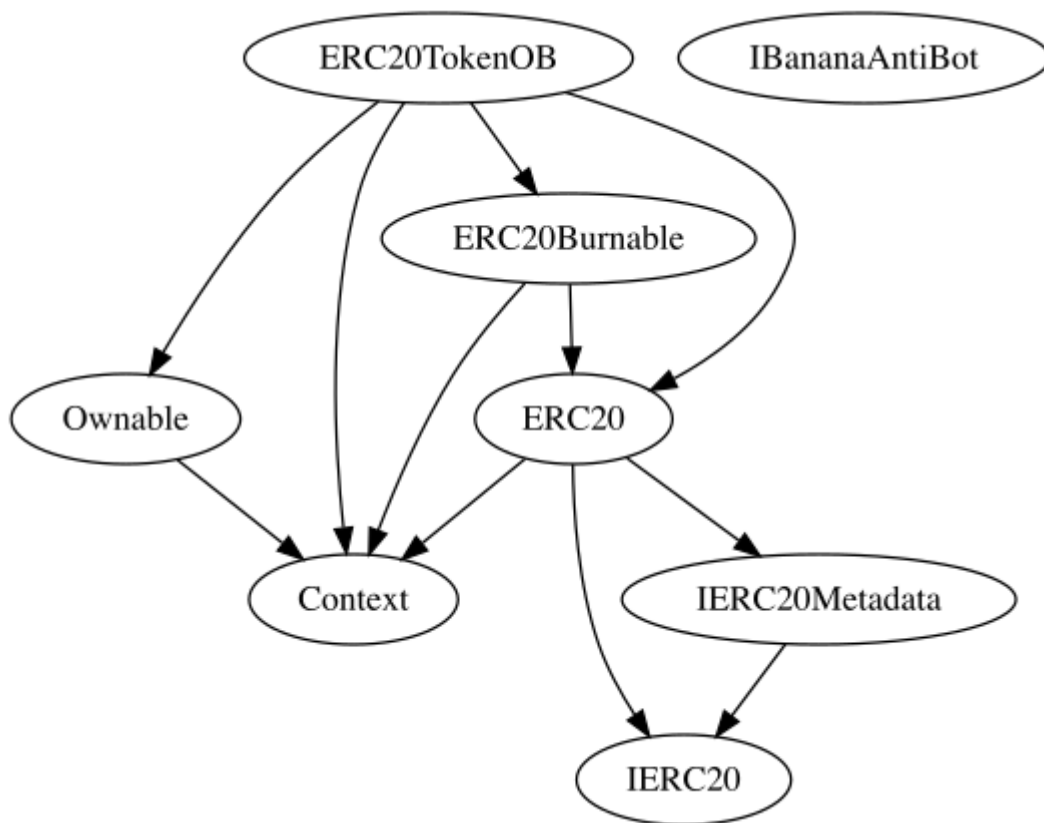
Recommendation

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.

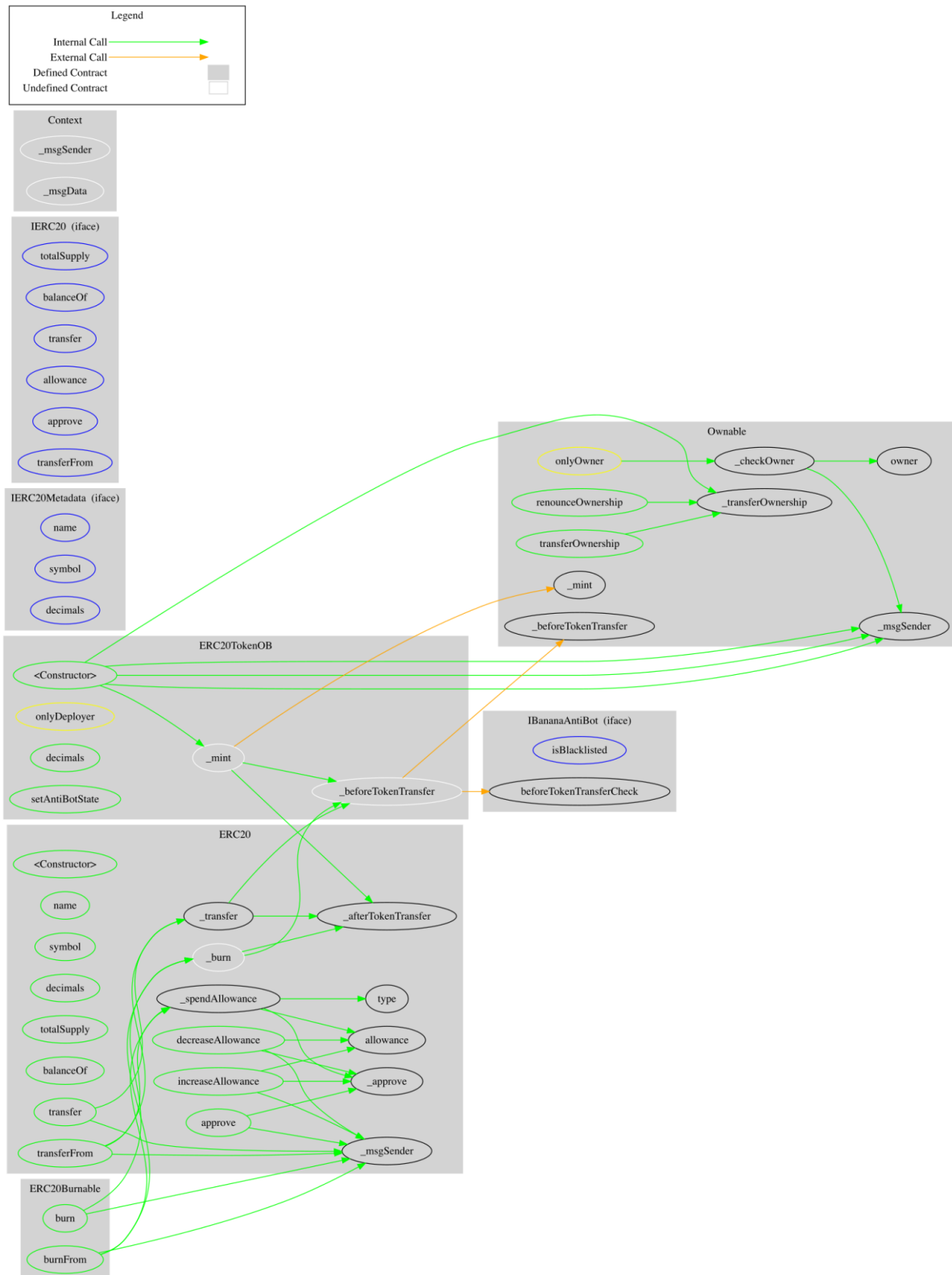
Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
ERC20TokenOB	Implementation	Context, ERC20, ERC20Burnable, Ownable		
		Public	✓	ERC20
	decimals	Public		-
	setAntiBotState	Public	✓	onlyDeployer
	_mint	Internal	✓	
	_beforeTokenTransfer	Internal	✓	

Inheritance Graph



Flow Graph



Summary

Bananace contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Bananace 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.

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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

<https://www.cyberscope.io>