

Audit Report **Blue Bird**

January 2024

Network MATIC

Address 0x80dd32b30e12cae9f08e23201bfedba3b62e60d6

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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

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L09	Dead Code Elimination	Unresolved
•	L19	Stable Compiler Version	Unresolved



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Review

Contract Name	BlueBird
Compiler Version	v0.8.20+commit.a1b79de6
Optimization	200 runs
Testing Deploy	https://goerli.etherscan.io/address/0x5cd4e37bf8b40b1c6a6842 0309a2b197f679cab4
Explorer	https://polygonscan.com/address/0x80dd32b30e12cae9f08e23 201bfedba3b62e60d6
Address	0x80dd32b30e12cae9f08e23201bfedba3b62e60d6
Network	MATIC
Symbol	BLBM
Decimals	18
Total Supply	980,000,000
Badge Eligibility	Yes

Audit Updates

Source Files

Filename	SHA256
BlueBird.sol	5fb563733e126ced86a95f041963d9bfcbf3940c8ffe6e6737b76cceb884 d027

Findings Breakdown



Severity		Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	2	0	0	0



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	BlueBird.sol#L195
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _contextSuffixLength() internal view virtual
returns (uint256) {
    return 0;
}
```

Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	BlueBird.sol#L9,174,205,287,315,633,672
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 ^0.8.20;
```

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
IERC20Errors	Interface			
IERC721Errors	Interface			
IERC1155Error	Interface			
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
	_contextSuffixLength	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-



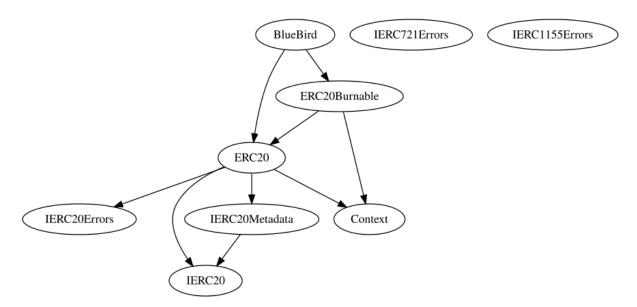
IERC20Metadat	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Meta data, IERC20Error s		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	_transfer	Internal	✓	
	_update	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	



	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
ERC20Burnable	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
BlueBird	Implementation	ERC20, ERC20Burna ble		
		Public	✓	ERC20

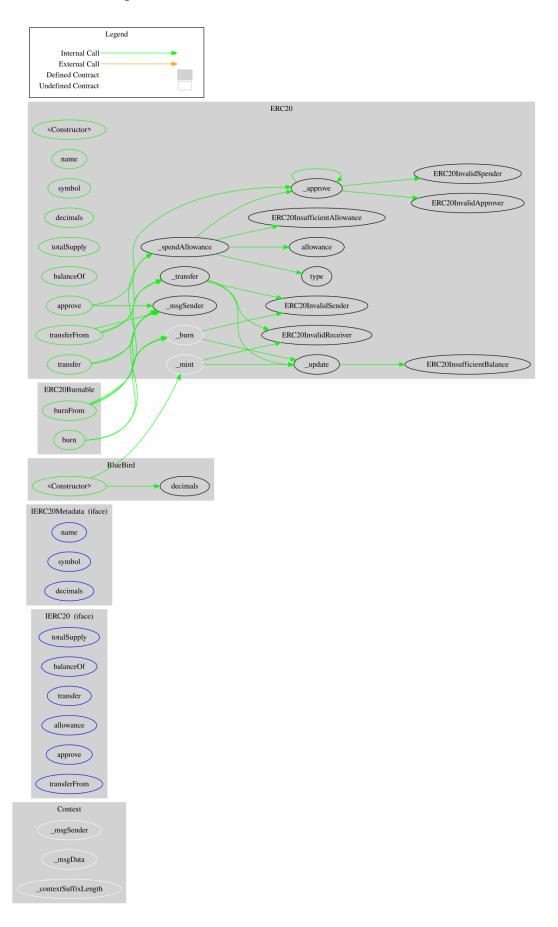


Inheritance Graph





Flow Graph





Summary

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

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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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