

Audit Report

BIM

October 2023

Network MATIC

Address 0xe78649874bcDB7a9D1666E665F340723a0187482

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

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L19	Stable Compiler Version	Unresolved



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Review

Contract Name	BIM
Compiler Version	v0.8.9+commit.e5eed63a
Optimization	200 runs
Explorer	https://polygonscan.com/address/0xe78649874bcdb7a9d1666e 665f340723a0187482
Address	0xe78649874bcdb7a9d1666e665f340723a0187482
Network	MATIC
Symbol	BIM
Decimals	18
Total Supply	313,997,868

Audit Updates

Initial Audit



Source Files

Filename	SHA256
contracts/BIM.sol	625868ac1657391b54ee1892b1e1574d2e 14a0700086a57a714d1847701e635d
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a2 3a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/token/ERC20/IERC20.sol	94f23e4af51a18c2269b355b8c7cf4db800 3d075c9c541019eb8dcf4122864d5
@openzeppelin/contracts/token/ERC20/ERC20.sol	5031430cc2613c32736d598037d3075985 a2a09e61592a013dbd09a5bc2041b8
@openzeppelin/contracts/token/ERC20/extensions /IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166 689e55dc037a7f2f790d057811990
@openzeppelin/contracts/token/ERC20/extensions/ERC20Burnable.sol	0344809a1044e11ece2401b4f7288f414ea 41fa9d1dad24143c84b737c9fc02e



Findings Breakdown



Sev	erity	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/BIM.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 ^0.8.4;
```

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.

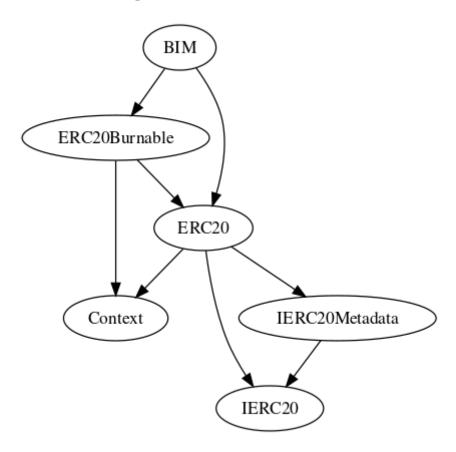


Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
ВІМ	Implementation	ERC20, ERC20Burna ble		
		Public	✓	ERC20

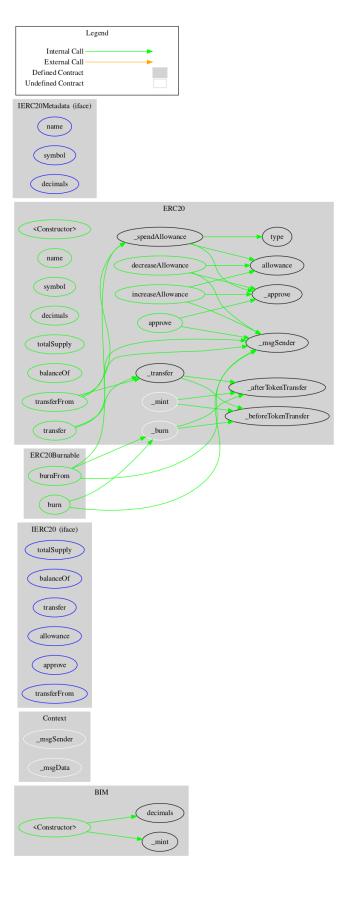


Inheritance Graph





Flow Graph



Summary

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