



Cyberscope

Audit Report

Option2Trade

December 2023

Network ETH

Address 0x9Cb228d638639881155211B03b8Dc1027bf0880d

Audited by © cyberscope

Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	RRS	Redundant Require Statement	Unresolved

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Review

Contract Name	TeamToken
Compiler Version	v0.6.12+commit.27d51765
Optimization	200 runs
Explorer	https://etherscan.io/address/0x9cb228d638639881155211b03b8dc1027bf0880d
Address	0x9cb228d638639881155211b03b8dc1027bf0880d
Network	ETH
Symbol	O2T
Decimals	9
Total Supply	624,888,777

Audit Updates

Initial Audit	28 Dec 2023
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Source Files

Filename	SHA256
contracts/TeamToken.sol	75ea52da4fcc79984c5ec91038e7f667c2a8927493e7d9b235bcba98ae84cc0e
contracts/SafeMath.sol	c12e80c632ffe9759da012ded8a255048b87d4ee6d7156c7aa9f7e98e4b9a6b6
contracts/IERC20.sol	397534ef6f97a7fa11089b8f05cf5383749067352d06c0e39b880fd08743489a

contracts/ERC20.sol	2801451a608b8512b9dcff8d81a61805dd7387ea90e74c09478fac336979263
contracts/Context.sol	6a25312554a817075fbe85e3c57f5e0ecad5b0bac4303bd3967ce9680e71a2af

Findings Breakdown



● Critical	0
● Medium	0
● Minor / Informative	1

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

RRS - Redundant Require Statement

Criticality	Minor / Informative
Location	contracts/TeamToken.sol#L15
Status	Unresolved

Description

The contract utilizes a `require` statement within the `checkIsAddressValid` modifier aiming to check if an Ethereum address is equal to itself. This condition is redundant since an address in Solidity will always be equal to itself. This redundancy adds unnecessary complexity to the contract and results in extra gas costs when the contract is executed. The additional self-comparison does not provide any extra security or functional benefit.

```
modifier checkIsAddressValid(address ethAddress)
{
    require(ethAddress != address(0), "[Validation] invalid address");
    require(ethAddress == address(ethAddress), "[Validation] invalid address");
    _;
}
```

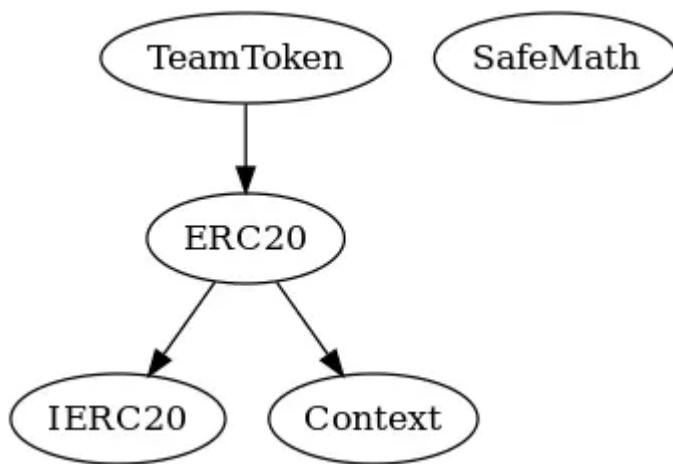
Recommendation

It is recommended to remove the `require` statement from the `checkIsAddressValid` modifier. In this way, the code will be simplified and gas consumption will be reduced.

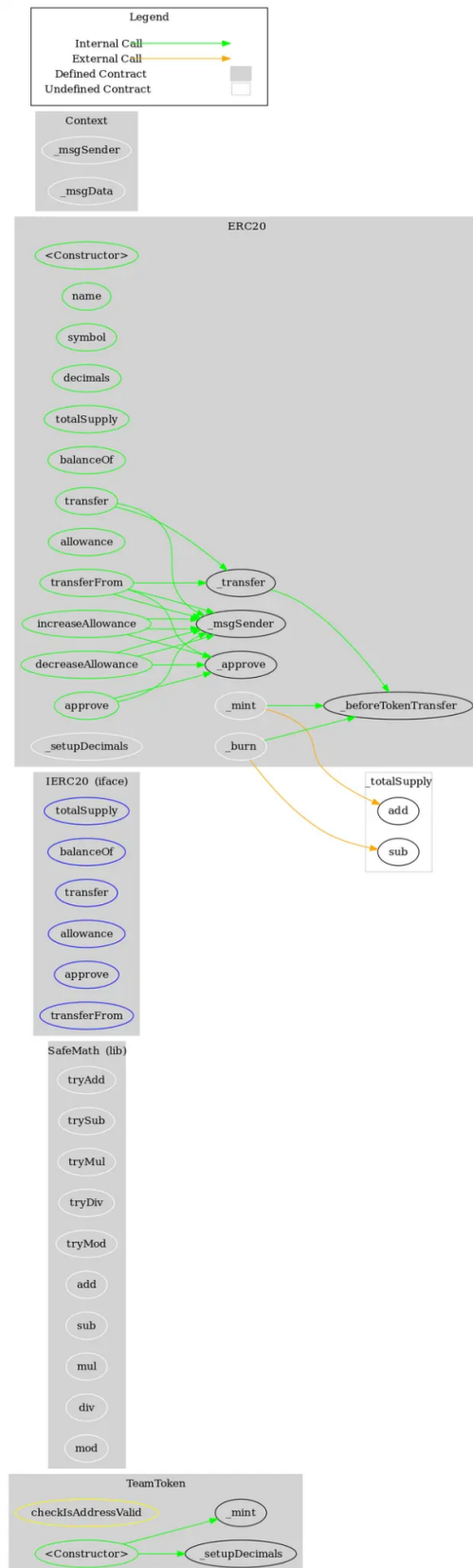
Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
TeamToken	Implementation	ERC20		
		Public	✓	checkIsAddress Valid checkIsAddress Valid ERC20

Inheritance Graph



Flow Graph



Summary

Option2Trade contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. Option2Trade 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

<https://www.cyberscope.io>