Cyberscope

Audit Report

Paxe Token

June 2024

Network	BSC
Address	0xd2a3eec06719d5ac66248003b5488e02165dd2fa
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

Table of Contents

Review

Contract Name	Paxe
Compiler Version	v0.8.16+commit.07a7930e
Optimization	200 runs
Explorer	https://bscscan.com/address/0xd2a3eec06719d5ac66248003b5488e02165dd2fa
Address	0xd2a3eec06719d5ac66248003b5488e02165dd2fa
Network	BSC
Symbol	PAXE
Decimals	18
Total Supply	100,000,000
Badge Eligibility	Yes

Audit Updates

Initial Audit	16 May 2024
Corrected Phase 2	21 May 2024
Corrected Phase 3	04 Jun 2024
Corrected Phase 4	25 Jun 2024

Source Files

Filename	SHA256
Paxe.sol	c3d235fa47439728c42a2743af06911489e0bdcdcbf91f2bcf95a2475f855508

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

RNCT - Redundant Native Currency Transfer

Criticality	Minor / Informative
Location	Paxe.sol#L1333
Status	Unresolved

Description

The contract includes a function named `claimStuckTokens`. This function is designed to transfer either native currency (e.g., Ether) or ERC20 tokens from the contract to the caller (`msg.sender`). However, there is a redundant piece of code that attempts to transfer native currency, despite the contract not being designed to accept Ether. This redundancy could lead to confusion and unnecessary gas consumption.

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");

    if (token == address(0x0)) {
        payable(msg.sender).transfer(address(this).balance);
        return;
    }

    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.safeTransfer(msg.sender, balance);
}
```

Recommendation

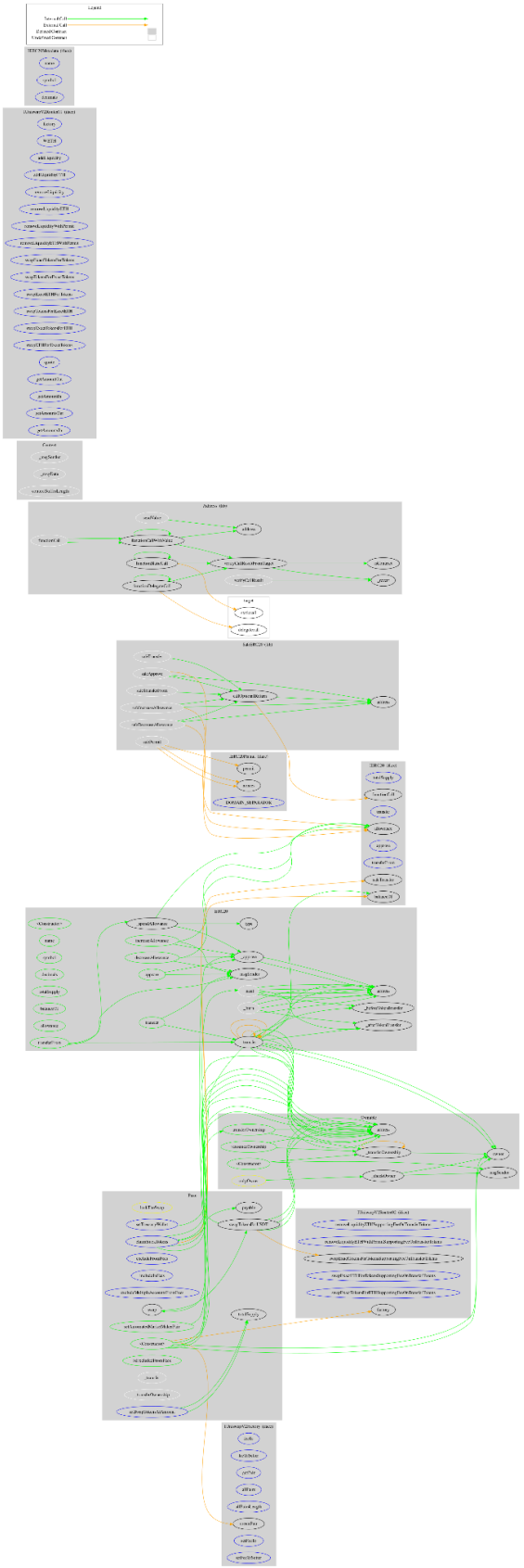
Remove the redundant check and the associated transfer logic for native currency from the `claimStuckTokens` function. The function should only handle the transfer of ERC20 tokens, as this is the intended functionality of the contract. Otherwise, add a `receive` function to the contract.

Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Paxe	Implementation	ERC20, Ownable		
		Public	✓	ERC20
	setSwapTokensAtAmount	External	✓	onlyOwner
	excludeFromFees	External	✓	onlyOwner
	includeInFees	External	✓	onlyOwner
	excludeMultipleAccountsFromFees	External	✓	onlyOwner
	setTreasuryWallet	External	✓	onlyOwner
	claimStuckTokens	External	✓	onlyOwner
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	isExcludedFromFees	Public		-
	_transfer	Internal	✓	
	_transferOwnership	Internal	✓	
	swap	Private	✓	lockTheSwap
	swapTokensForUSDT	Private	✓	

Inheritance Graph

Flow Graph



Summary

Paxe is an interesting project that has a friendly and growing community. This audit investigates security issues, business logic concerns and potential improvements.

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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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