Cyberscope

Audit Report

Hitly

June 2024

Network	BSC
Address	0x89F4D8a8F9D37f0624B8BdAf4C612a1279Df66BE
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
●	MTEE	Missing Transfer Event Emission	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved

Table of Contents

Review

Contract Name	HITLY
Compiler Version	v0.8.20+commit.a1b79de6
Optimization	200 runs
Explorer	https://bscscan.com/address/0x89f4d8a8f9d37f0624b8bdaf4c612a1279df66be
Address	0x89f4d8a8f9d37f0624b8bdaf4c612a1279df66be
Network	BSC
Symbol	HITLY
Decimals	9
Total Supply	1,500,000,000
Badge Eligibility	Yes

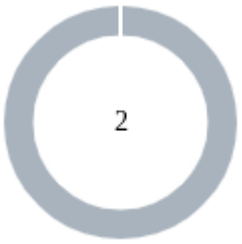
Audit Updates

Initial Audit	16 Jun 2024
Corrected Phase 2	18 Jun 2024

Source Files

Filename	SHA256
HITLY.sol	27d961fca3ca571eec71bee803507ed71c34bce002648e82d4e6f9d6c96fd4bd

Findings Breakdown



Critical	0
Medium	0
Minor / Informative	2

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

MTEE - Missing Transfer Event Emission

Criticality	Minor / Informative
Location	HITLY.sol#L92
Status	Unresolved

Description

The contract does not emit an event when portions of the main amount are transferred during the transfer process. This lack of event emission results in decreased transparency and traceability regarding the flow of tokens, and hinders the ability of decentralized applications (dApps), such as blockchain explorers, to accurately track and analyze these transactions.

Specifically, the contract is missing an event that emits the initial mint allocation to the `msg.sender` address.

```
_balances[msg.sender] = _totalSupply;
```

Recommendation

It is advisable to incorporate the emission of detailed event logs following each asset transfer. These logs should encapsulate key transaction details, including the identities of the sender and receiver, and the quantity of assets transferred. Implementing this practice will enhance the reliability and transparency of transaction tracking systems, ensuring accurate data availability for ecosystem participants.

L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	HITLY.sol#L101
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
4. Use indentation to improve readability and structure.
5. Use spaces between operators and after commas.
6. Use comments to explain the purpose and behavior of the code.
7. Keep lines short (around 120 characters) to improve readability.

```
bool _tax
address _addr
```

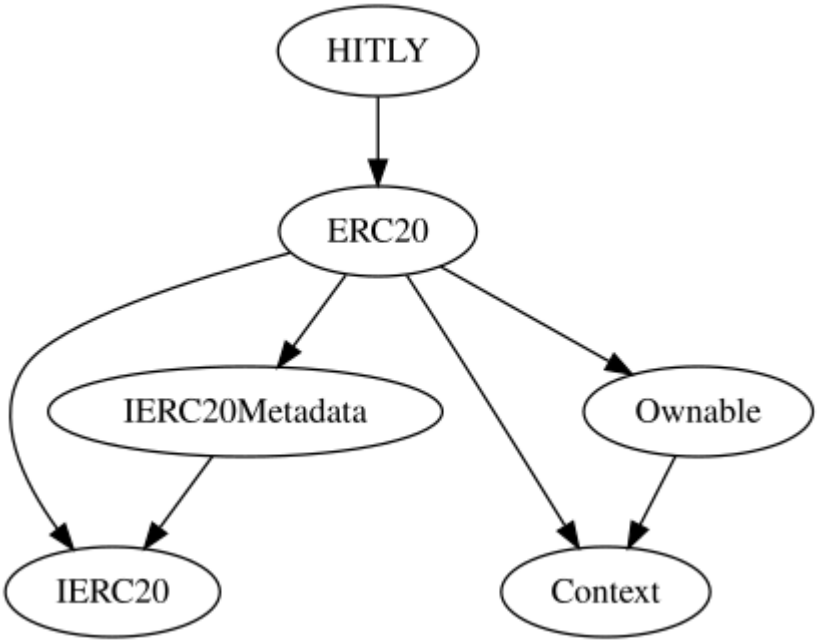
Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.
Find more information on the Solidity documentation
https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.

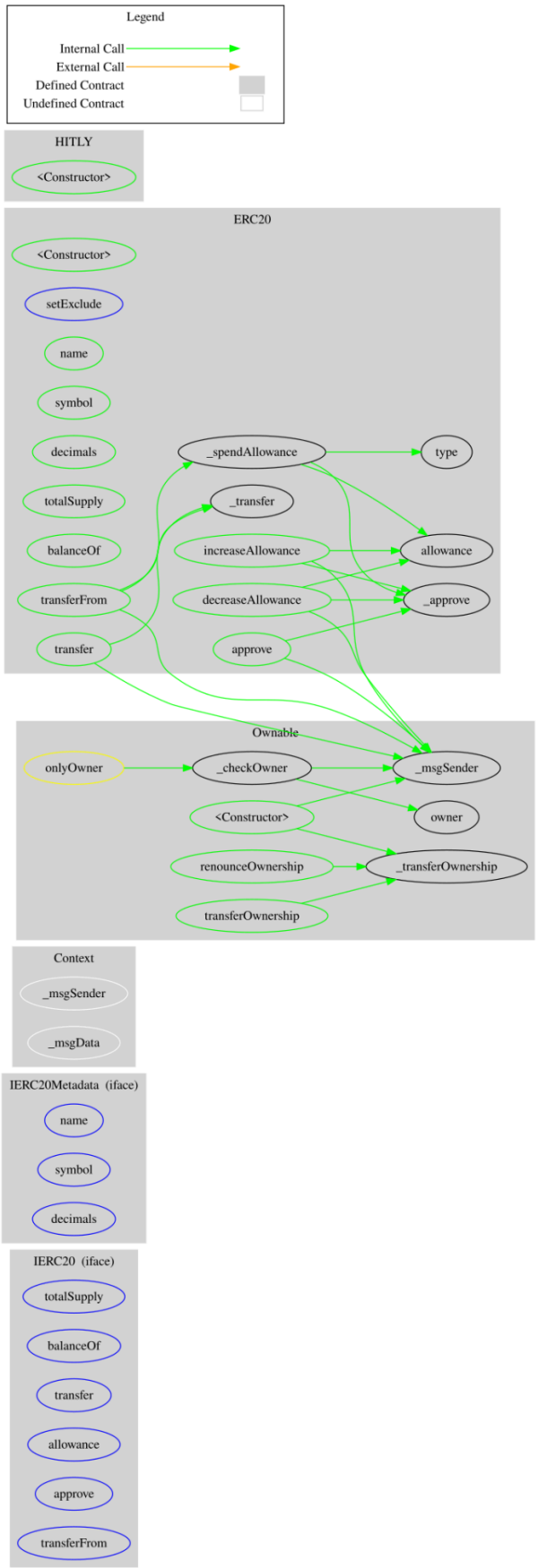
Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
HITLY	Implementation	ERC20		
		Public	✓	ERC20

Inheritance Graph



Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
HITLY
<Constructor>
ERC20
<Constructor>
setExclude
name
symbol
decimals
totalSupply
balanceOf
transferFrom
transfer
_spendAllowance
_transfer
increaseAllowance
decreaseAllowance
approve
type
allowance
_approve
Ownable
onlyOwner
_checkOwner
<Constructor>
renounceOwnership
transferOwnership
_msgSender
owner
_transferOwnership
Context
_msgSender
_msgData
IERC20Metadata (iface)
name
symbol
decimals
IERC20 (iface)
totalSupply
balanceOf
transfer
allowance
approve
transferFrom

Summary

Hitly contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Hitly 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. The fee is set to 1%.

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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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