

Audit Report Vartifact

August 2022

Type BEP20

Network BSC

Address 0xf367e69498450466878cc95ba5276ab1a91eeab3

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Contract Review

Contract Name	VartifactContract
Compiler Version	v0.4.26+commit.4563c3fc
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xf367e69498450466878c C95BA5276aB1A91EEab3
Symbol	VARTI
Decimals	18
Total Supply	1,000,000,000
Domain	https://vartifact.io

Source Files

Filename	SHA256
contract.sol	88581d64df32cfdef311b1a475e875f339769842955a31 f8a52c47609599fa7d

Audit Updates

Initial Audit	17th August 2022
Corrected	

Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling

OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L204

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the transferAnyERC20Token function.

```
function transferAnyERC20Token(address tokenAddress, uint tokens) public onlyOwner returns (bool success) {
    return ERC20Interface(tokenAddress).transfer(owner, tokens);
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	STC	Succeeded Transfer Check
•	L01	Public Function could be Declared External
•	L04	Conformance to Solidity Naming Conventions



STC - Succeeded Transfer Check

Criticality	minor
Location	contract.sol#L205

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
function transferAnyERC20Token(address tokenAddress, uint tokens) public onlyOwner returns (bool success) {
    return ERC20Interface(tokenAddress).transfer(owner, tokens);
}
```

Recommendation

The contract should check if the result of the transfer methods is successful.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L48,33,32,73,192,21,34,70,181,36,37,35,200,17

Description

Public functions that are never called by the contract should be declared external to save gas.

safeMul
transferAnyERC20Token
transfer
transferFrom
approve
approveAndCall
transferOwnership
allowance
safeDiv
...

Recommendation

Use the external attribute for functions never called from the contract.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L70,90

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_totalSupply
_newOwner
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions.



Contract Functions

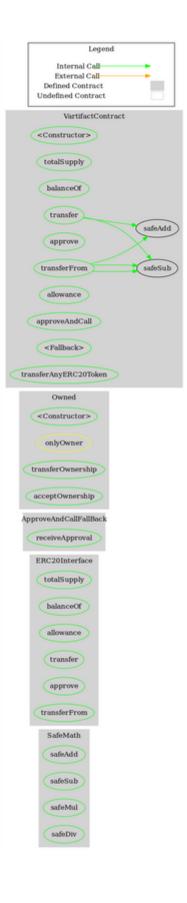
Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Implementation			
	safeAdd	Public		-
	safeSub	Public		-
	safeMul	Public		-
	safeDiv	Public		-
ERC20Interfac	Implementation			
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	transfer	Public	1	-
	approve	Public	1	-
	transferFrom	Public	1	-
ApproveAndC allFallBack	Implementation			
	receiveApproval	Public	1	-
Owned	Implementation			
	<constructor></constructor>	Public	1	-
	transferOwnership	Public	✓	onlyOwner
	acceptOwnership	Public	✓	-
VartifactContr act	Implementation	ERC20Interf ace, Owned, SafeMath		
	<constructor></constructor>	Public	1	-
	totalSupply	Public		-



balanceOf	Public		-
transfer	Public	✓	-
approve	Public	✓	-
transferFrom	Public	✓	-
allowance	Public		-
approveAndCall	Public	✓	-
<fallback></fallback>	Public	Payable	-
transferAnyERC20Token	Public	✓	onlyOwner



Contract Flow



Domain Info

Domain Name	vartifact.io
Registry Domain ID	365e0bb3b87f4ea0a3e76b6e4e7d7841-DONUTS
Creation Date	2021-11-21T17:12:46Z
Updated Date	2022-07-11T19:29:13Z
Registry Expiry Date	2022-11-21T17:12:46Z
Registrar WHOIS Server	whois.ionos.com
Registrar URL	https://www.ionos.com
Registrar	IONOS SE
Registrar IANA ID	83

The domain was created 3 months before the creation of the audit.

There is no public billing information, the creator is protected by the privacy settings.



Summary

Vartifact is an interesting project that has a friendly and growing community. The Smart Contract analysis reported one minor severity issue. Other than that, the contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Cyberscope team disclaims any liability for the resulting losses.



About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io