

Audit Report OctaSpace

July 2024

Network ETH

Address 0x001791385cd8D8b3703AAA2eCc233a2421b8a511

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Unresolved
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Unresolved
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



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Review

Contract Name	WOCTA
Compiler Version	v0.8.25+commit.b61c2a91
Optimization	9999999 runs
Explorer	https://etherscan.io/address/0x001791385cd8d8b3703aaa2ecc 233a2421b8a511
Address	0x001791385cd8d8b3703aaa2ecc233a2421b8a511
Network	ETH
Decimals	18

Audit Updates

Initial Audit	03 Jul 2024
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Source Files

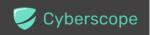
Filename	SHA256
WOCTA.sol	1309e9a0b93fc72f5cb54ef7ed516f86ed0b8c3623f36d48067b54bf4ac7 7e61



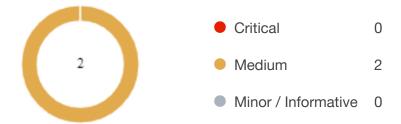
Overview

The smart contract audit was conducted for the contract deployed at the implementation address 0×001791385 cd8d8b3703aaa2ecc233a2421b8a511. This contract has been deployed through a proxy contract located at

0xfa704148d516b209d52c2d75f239274c8f8eaf1a . The implementation address can change, as the proxy contract allows for upgradability, which means the logic of the contract can be modified over time while keeping the same proxy address. This feature is a common practice to enable improvements and updates without disrupting the existing contract interactions.



Findings Breakdown



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



ST - Stops Transactions

Criticality	Medium
Location	WOCTA.sol#L39
Status	Unresolved

Description

The PAUSER_ROLE account has the authority to stop the transactions for all users. The PAUSER ROLE account may take advantage of it by calling the pause function.

```
function pause() public onlyRole(PAUSER_ROLE) {
    _pause();
}
```

Recommendation

The team should carefully manage the private keys of the PAUSER_ROLE account's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract PAUSER ROLE functions.

Temporary Solutions:

These measurements do not decrease the severity of the finding

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-signature wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.

Permanent Solution:

Renouncing the ownership, which will eliminate the threats but it is non-reversible.



MT - Mints Tokens

Criticality	Medium
Location	WOCTA.sol#L47
Status	Unresolved

Description

The MINTER_ROLE account has the authority to mint tokens. The MINTER_ROLE account may take advantage of it by calling the mint function. As a result, the contract tokens will be highly inflated.

```
function mint(address to, uint256 amount) public
onlyRole(MINTER_ROLE) {
    _mint(to, amount);
}
```

Recommendation

The team should carefully manage the private keys of the MINTER_ROLE account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract MINTER ROLE functions.

Temporary Solutions:

These measurements do not decrease the severity of the finding

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-signature wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.

Permanent Solution:

• Renouncing the ownership, which will eliminate the threats but it is non-reversible.

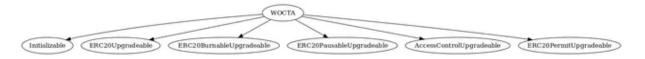


Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
WOCTA	Implementation	Initializable, ERC20Upgra deable, ERC20Burna bleUpgradea ble, ERC20Pausa bleUpgradea ble, AccessContr olUpgradeab le, ERC20Permi tUpgradeabl e		
		Public	✓	-
	initialize	Public	✓	initializer
	pause	Public	✓	onlyRole
	unpause	Public	✓	onlyRole
	mint	Public	✓	onlyRole
	_update	Internal	✓	



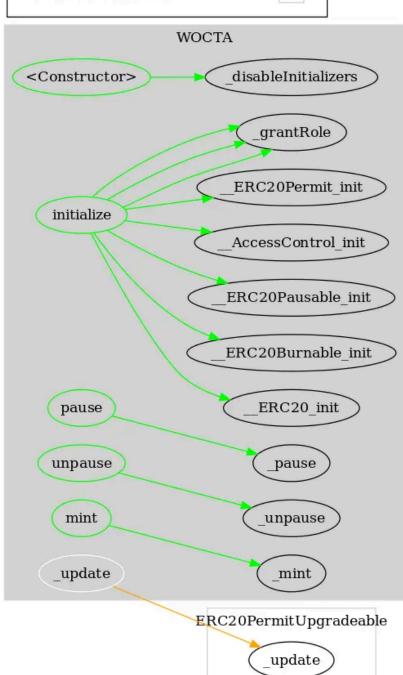
Inheritance Graph





Flow Graph







Summary

OctaSpace contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. There are some functions that can be abused by certain roles like stop transactions and mint tokens. If the mint functionality, then the contract will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.



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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