

Audit Report **EDNS Token**

October 2022

Github https://github.com/ednsdomains/token

Commit 2cf6bcac40389fa3a93ecf77e29f33dc7f6b445a

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Table of Contents

Table of Contents	1
Contract Review	2
Audit Updates	2
Source Files	3
Contract Analysis	5
ST - Stops Transactions	6
Description	6
Recommendation	6
MT - Mints Tokens	7
Description	7
Recommendation	7
Contract Diagnostics	8
Contract Functions	9
Contract Flow	13
Domain Info	14
Summary	15
Disclaimer	16
About Cyberscope	17



Contract Review

Contract Name	EDNSToken
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	0 runs
Github	https://github.com/ednsdomains/token/blob/master/contracts/EDNSToken.sol
Commit	2cf6bcac40389fa3a93ecf77e29f33dc7f6b445a
Test Deploy	https://testnet.bscscan.com/token/0x77082c119B98629 752C4A005cEDb806659aC74a1
Symbol	EDNS
Decimals	18
Domain	https://www.edns.domains

Audit Updates

Initial Audit	24th October 2022
Corrected	



Source Files

Filename	SHA256
@openzeppelin/contracts/acces	5af1771388b4fe634e0a566716e32c6d00
s/AccessControl.sol	a5372875099127b274d4cf8a94e9d2
@openzeppelin/contracts/acces	d03c1257f2094da6c86efa7aa09c1c07eb
s/IAccessControl.sol	d33dd31046480c5097bc2542140e45
@openzeppelin/contracts/security/Pausable.sol	2072248d2f79e661c149fd6a6593a8a3f0 38466557c9b75e50e0b001bcb5cf97
@openzeppelin/contracts/token/	5031430cc2613c32736d598037d307598
ERC20/ERC20.sol	5a2a09e61592a013dbd09a5bc2041b8
@openzeppelin/contracts/token/ ERC20/extensions/ERC20Burna ble.sol	0344809a1044e11ece2401b4f7288f414e a41fa9d1dad24143c84b737c9fc02e
@openzeppelin/contracts/token/ ERC20/extensions/IERC20Meta data.sol	af5c8a77965cc82c33b7ff844deb982616 6689e55dc037a7f2f790d057811990
@openzeppelin/contracts/token/	94f23e4af51a18c2269b355b8c7cf4db80
ERC20/IERC20.sol	03d075c9c541019eb8dcf4122864d5
@openzeppelin/contracts/utils/C ontext.sol	1458c260d010a08e4c20a4a517882259a 23a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/i	8806a632d7b656cadb8133ff8f2acae440
ntrospection/ERC165.sol	5b3a64d8709d93b0fa6a216a8a6154
@openzeppelin/contracts/utils/i	701e025d13ec6be09ae892eb029cd83b3
ntrospection/IERC165.sol	064325801d73654847a5fb11c58b1e5



@openzeppelin/contracts/utils/S trings.sol	34127ad0054df5963b0fd694c1b313d17 e9114a2f426b85526d6d976210298ab
contracts/EDNSToken.sol	e31979f4ecb785b2e0b1d5a39a0354310 863412860c5cf80685b656b65167177

Contract Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Unresolved
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Unresolved
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

ST - Stops Transactions

Criticality	minor / informative
Location	contract.sol#L31
Status	Unresolved

Description

The contract owner has the authority to stop the transactions for all users including the owner. The owner may take advantage of it by calling the pause function.

```
function _beforeTokenTransfer(address from, address to, uint256 amount)
    internal
    whenNotPaused
    override
{
    super._beforeTokenTransfer(from, to, amount);
}
```

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.

MT - Mints Tokens

Criticality	minor / informative
Location	contract.sol#L27
Status	Unresolved

Description

The contract owner has the authority to mint tokens. The owner 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 owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

Contract Diagnostics

The contract uses OpenZeppelin Contracts to implement basic ERC20 functionality.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
AccessControl	Implementation	Context, IAccessCon trol, ERC165		
	supportsInterface	Public		-
	hasRole	Public		-
	_checkRole	Internal		
	_checkRole	Internal		
	getRoleAdmin	Public		-
	grantRole	Public	1	onlyRole
	revokeRole	Public	✓	onlyRole
	renounceRole	Public	✓	-
	_setupRole	Internal	✓	
	_setRoleAdmin	Internal	✓	
	_grantRole	Internal	1	
	_revokeRole	Internal	✓	
IAccessContro	Interface			
	hasRole	External		-
	getRoleAdmin	External		-
	grantRole	External	1	-
	revokeRole	External	✓	-
	renounceRole	External	✓	-
Pausable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	paused	Public		-
	_requireNotPaused	Internal		
	_requirePaused	Internal		

	_pause	Internal	✓	whenNotPaus ed
	_unpause	Internal	1	whenPaused
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	1	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	1	
	_beforeTokenTransfer	Internal	1	
	_afterTokenTransfer	Internal	1	
ERC20Burnabl	Implementation	Context, ERC20		
	burn	Public	1	-
	burnFrom	Public	√	-
IERC20Metad ata	Interface	IERC20		
	name	External		-
	symbol	External		-



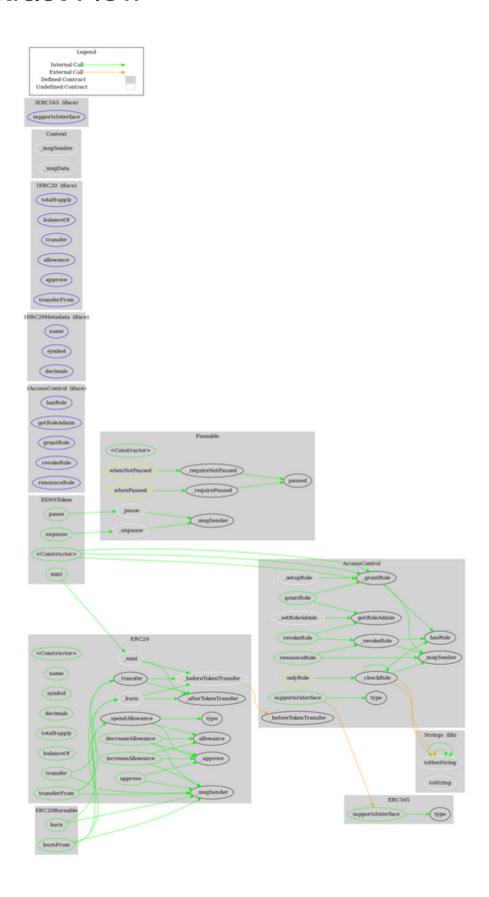
	decimals	External		-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC165	Implementation	IERC165		
	supportsInterface	Public		-
IERC165	Interface			
IERO 103		Estemal		
	supportsInterface	External		-
Strings	Library			
	toString	Internal		
	toHexString	Internal		
	toHexString	Internal		
	toHexString	Internal		
EDNSToken	Implementation	ERC20, ERC20Burn able, Pausable, AccessCont rol		
	<constructor></constructor>	Public	1	ERC20
	pause	Public	✓	onlyRole
	unpause	Public	✓	onlyRole
	mint	Public	✓	onlyRole
	_beforeTokenTransfer	Internal	✓	whenNotPaus



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Contract Flow



Domain Info

Domain Name	edns.domains
Registry Domain ID	4d3cf01c03824b49b188b8639e90af79-DONUTS
Creation Date	2021-12-01T06:18:03Z
Updated Date	2022-02-27T09:57:11Z
Registry Expiry Date	2022-12-01T06:18:03Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89 90
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created 11 months before the creation of the audit. It will expire in about 1 month.

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

Summary

There are some functions that can be abused by the owner like stopping transactions and minting tokens. if the contract owner abuses 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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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.



https://www.cyberscope.io