Cyberscope

Audit Report

Xenum Space

March 2023

Type	BEP20
Network	BSC
Address	0xd45fd4c4619561536df0b9335779cbf399b4cdf5
Audited by	© cyberscope

Table of Contents

Review

Contract Name	Xenum
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	200 runs
Explorer	https://bscscan.com/address/0xd45fd4c4619561536df0b9335779cbf399b4cdf5
Address	0xd45fd4c4619561536df0b9335779cbf399b4cdf5
Network	BSC
Symbol	XNM
Decimals	18
Total Supply	1,000,000,000

Audit Updates

Initial Audit	01 Mar 2023 https://github.com/cyberscope-io/audits/tree/main/xnm/v1/audit.pdf
Corrected Phase 2	09 Mar 2023

Source Files

Filename	SHA256
Xenum.sol	7ed0a89948dce25fb276fa217537d2490f654a4d916a697e10a8b74784af3e08

Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	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	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
●	L04	Conformance to Solidity Naming Conventions	Unresolved

L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	Xenum.sol#L603,605,606,609,614,618,621,623,625,627,650,659,665,671,675
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.

```
address public CrowdAdress = address(this)
uint256 public CrowdSupply = 600000000 ether
uint256 public AirDrop = 100000000 ether
uint256 public constant aAmt = 1000 * 10**18
uint256 public constant Price = 300000 * 10**18
uint256 public constant balancesOwner = 300000000 ether
uint256 public PresaleBalance = 0
mapping(address => bool) public _AirdropsDone
bool public PresaleStart = true
bool public AirdropStart = true

...
```

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.

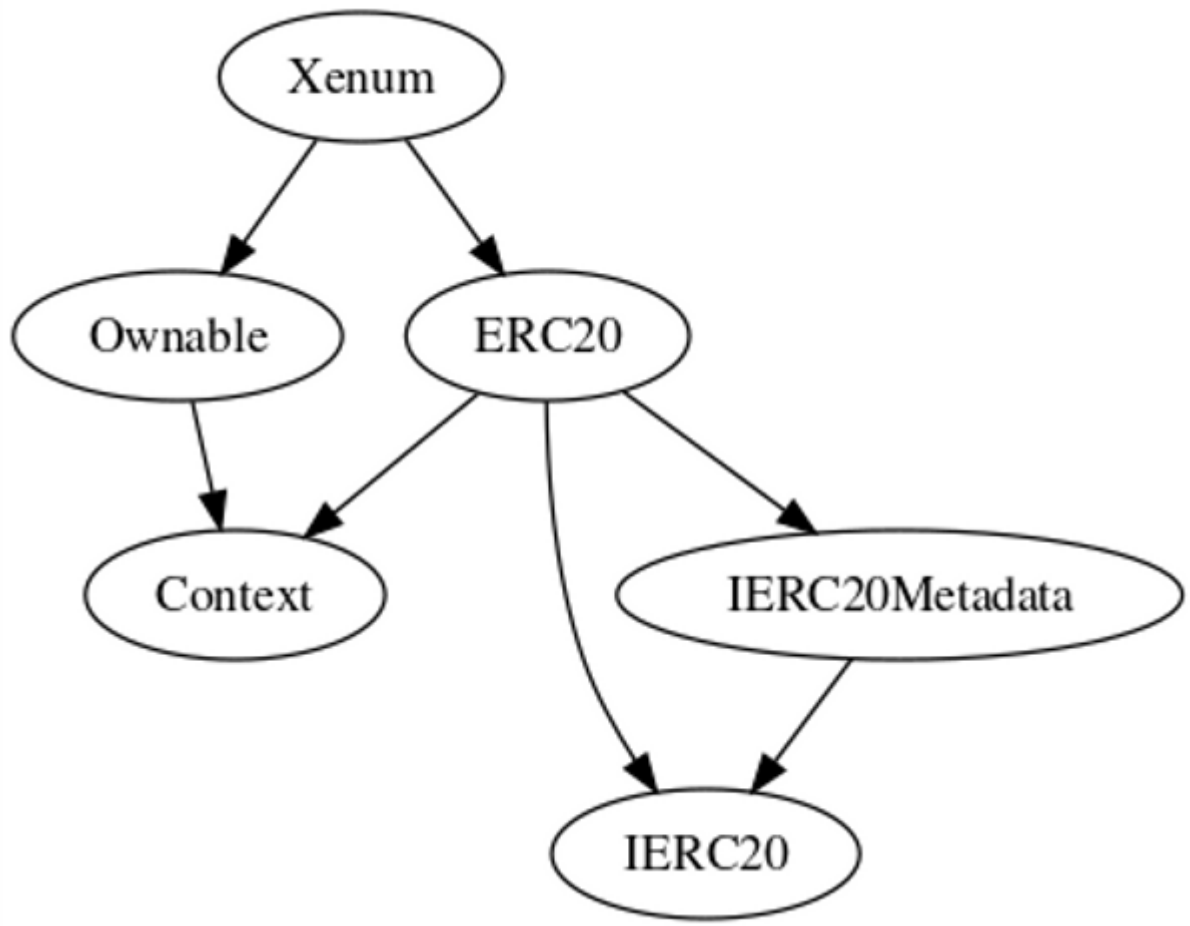
Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	

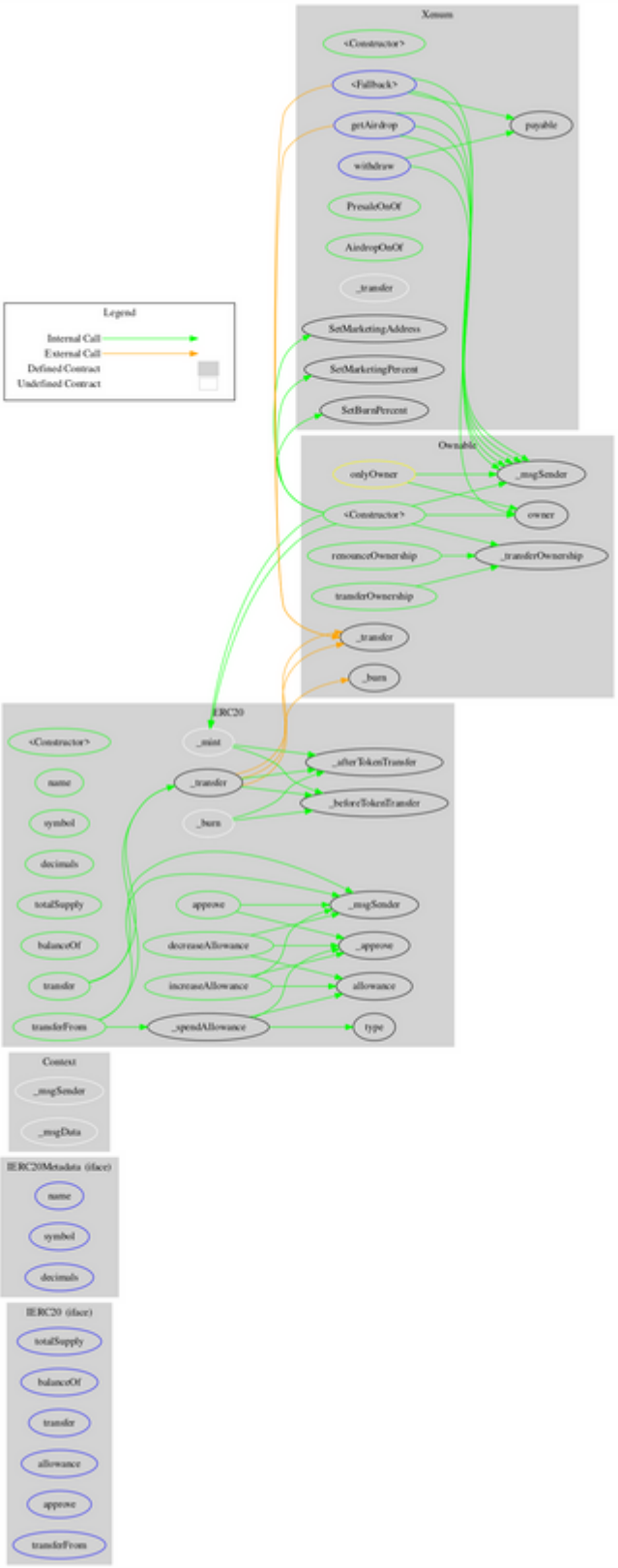
ERC20	Implementation	Context, IERC20, IERC20Metadata		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
Xenum	Implementation	ERC20, Ownable		
		Public	✓	-
	SetMarketingAddress	Public	✓	onlyOwner
	SetMarketingPercent	Public	✓	onlyOwner
	SetBurnPercent	Public	✓	onlyOwner
	PresaleOnOf	Public	✓	onlyOwner
	AirdropOnOf	Public	✓	onlyOwner

	_transfer	Internal	✓	
		External	Payable	-
	getAirdrop	External	✓	-
	withdraw	External	Payable	onlyOwner

Inheritance Graph



Flow Graph


Xenum
<Constructor>
<Fallback>
getAirdrop
withdraw
PresaleOnOf
AirdropOnOf
_transfer
SetMarketingAddress
SetMarketingPercent
SetBurnPercent
payable
Ownable
onlyOwner
_msgSender
<Constructor>
owner
renounceOwnership
_transferOwnership
transferOwnership
_transfer
_burn
Legend
Internal Call
External Call
Defined Contract
Undefined Contract
IERC20
<Constructor>
name
symbol
decimals
totalSupply
balanceOf
transfer
transferFrom
_mint
_transfer
_burn
_afterTokenTransfer
_beforeTokenTransfer
approve
decreaseAllowance
increaseAllowance
_spendAllowance
_msgSender
_approve
allowance
type
Context
_msgSender
_msgData
IERC20Metadata (iface)
name
symbol
decimals
IERC20 (iface)
totalSupply
balanceOf
transfer
allowance
approve
transferFrom

Summary

Xenum Space contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Xenum Space is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors 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. There is also a limit of max 10% fees.

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The Cyberscope team

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