Audit Report
Expart Bucks

January 2022

Type	HRC20
Network	HARMONY
Address	0xf370745abb05634dc30b98df88f04cc5ce323e00
Audited by	© coinscope

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Contract Review

Contract Name	ExpartBUCKS
Compiler Version	0.8.7
Optimization	NO
Licence	
Explorer	https://explorer.harmony.one/address/0xf370745abb05634dc30b98df88f04cc5ce323e00
Symbol	BUCKS
Decimals	0
Total Supply	-
Source	contract.sol
Domain	https://expart.me

Audit Updates

Initial Audit	26th January 2022
Corrected	

Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

● Critical   ● Medium   ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L674,L670,L645 and 11 more

Description

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

```
unpause
pause
transferOwnership
...
```

Recommendation

Use the external attribute for functions never called from the contract

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L409,L21

Description

Functions that are not used in the contract, and make the code's size bigger.

```
_burn
_msgData
```

## Recommendation

Remove unused functions.

# Contract Functions

| Contract | Type | Bases | | |
|---|---|---|---|---|
| | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| | | | | |
| **Context** | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| **IERC20** | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| **IERC20Metadata** | Interface | IERC20 | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | | | | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| | <Constructor> | 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 | ✓ | |
| | _beforeTokenTransfer | Internal | ✓ | |
| | _afterTokenTransfer | Internal | ✓ | |
| | | | | |
| **Pausable** | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | paused | Public | | - |
| | _pause | Internal | ✓ | whenNotPaused |
| | _unpause | Internal | ✓ | whenPaused |
| | | | | |
| **Ownable** | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _transferOwnership | Internal | ✓ | |
| | | | | |
| **ExpartBUCKS** | Implementation | ERC20, Pausable, Ownable | | |
| | <Constructor> | Public | ✓ | ERC20 |
| | decimals | Public | | - |
| | pause | Public | ✓ | onlyOwner |
| | unpause | Public | ✓ | onlyOwner |
| | _beforeTokenTransfer | Internal | ✓ | whenNotPaused |

# Contract Flow
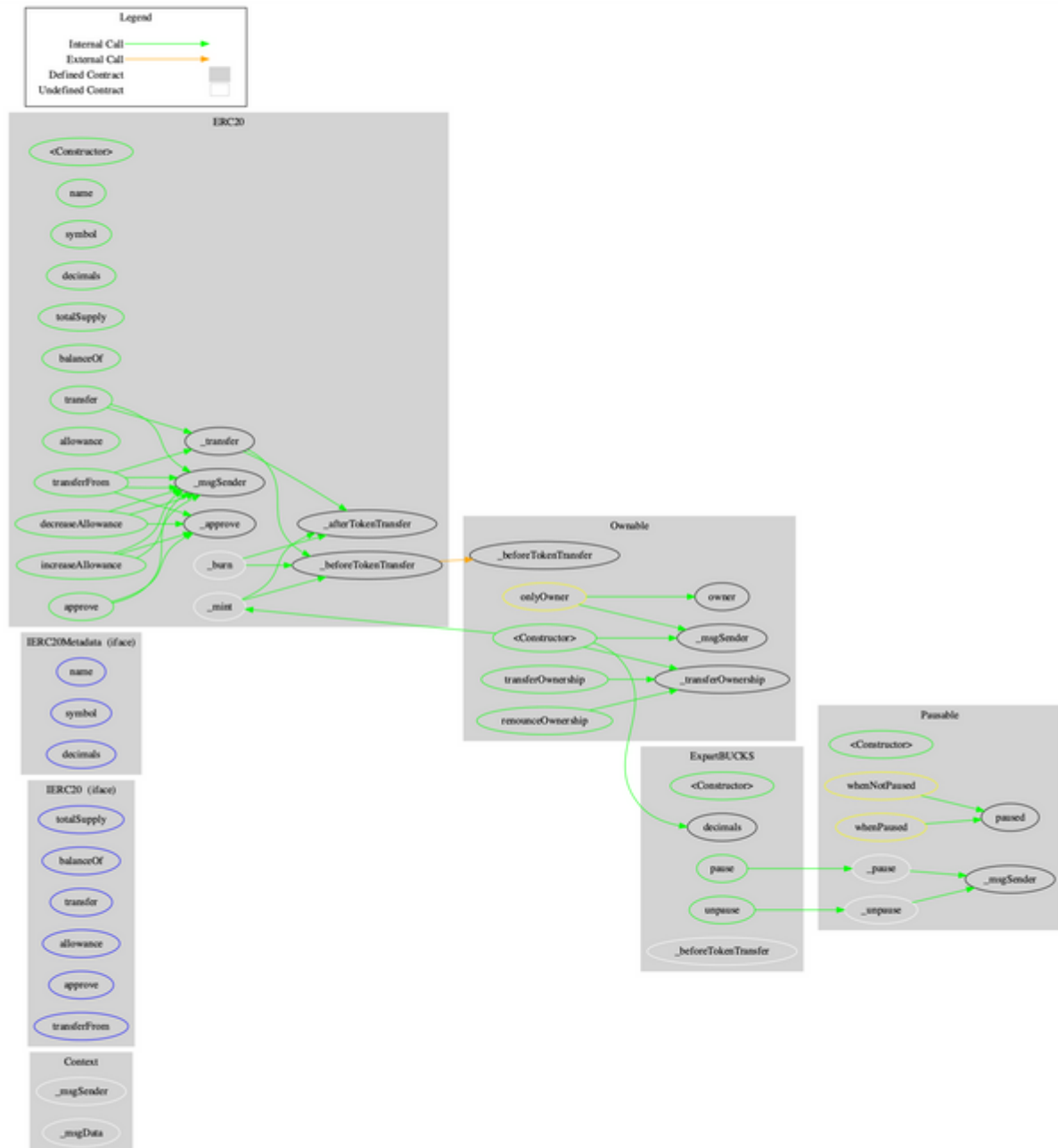
# Domain Info

| | |
|---|---|
| **Domain Name** | expart.me |
| **Registry Domain ID** | D425500000338028114-AGRS |
| **Creation Date** | 2021-10-21T14:48:59Z |
| **Updated Date** | 2021-12-20T21:15:32Z |
| **Registry Expiry Date** | 2022-10-21T14:48:59Z |
| **Registrar WHOIS Server** | whois.namecheap.com |
| **Registrar URL** | www.namecheap.com |
| **Registrar** | NameCheap, Inc. |
| **Registrar IANA ID** | 1068 |

The domain has been created 3 months before the creation of the audit. It will expire in 9 months.

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

# Summary

Expart Bucks combines gamification with NFTs. The Project has a friendly and growing community. The smart contract analysis reported no compiler errors or major issues. In fact there are not any functions that can be abused by the owner to interrupt the user's transactions.

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The Coinscope.co team

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