

Audit Report Wookiees

June 2023

SHA256

a3c706c76579259836c20b9430c9197c941ea739ad127b8ac3fd257de8aaa1dd

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

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

Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L09	Dead Code Elimination	Unresolved



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Review

Contract Name	wookiees
Testing Deploy	https://testnet.bscscan.com/address/0x6898b34e8969ec2f9f94 93e5a9515de5cd793270
Symbol	wookiee
Decimals	9
Total Supply	420,000,000,000

Audit Updates

Initial Audit	23 Jun 2023

Source Files

Filename	SHA256
contracts/wookiees.sol	a3c706c76579259836c20b9430c9197c941ea739ad127b8ac3fd257de8 aaa1dd

Findings Breakdown



Sev	rerity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	2	0	0	0



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	contracts/wookiees.sol#L207
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.

```
contract wookiees is ERC20 {
    constructor () ERC20("wookiees", "wookiee") {
        _mint(msg.sender, 420_000_000_000 * (10 ** 9));
    }
}
```

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.



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	contracts/wookiees.sol#L165
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _burn(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: burn from the zero
address");

    _beforeTokenTransfer(account, address(0), amount);

    uint256 accountBalance = _balances[account];
...
}
_totalSupply -= amount;

emit Transfer(account, address(0), amount);

_afterTokenTransfer(account, address(0), amount);
}
```



Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.



Functions Analysis

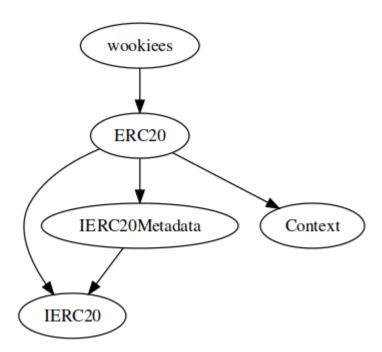
Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadat	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		



ERC20	Implementation	Context, IERC20, IERC20Meta data		
		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	✓	
wookiees	Implementation	ERC20		
		Public	1	ERC20

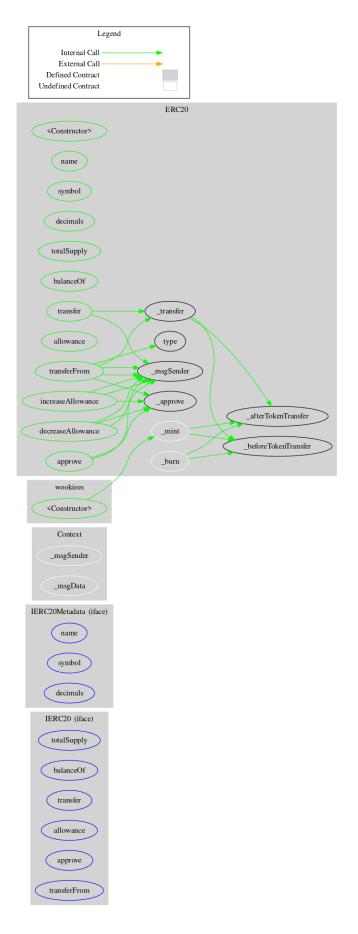


Inheritance Graph





Flow Graph





Summary

Wookiees is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can not access functions that can be used in a malicious way to disturb the users' transactions.



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About Cyberscope

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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.

