



Audit Report

Fractional Rocket Token

February 2022

Source Github

commit f724959d1b9a6081216ce40991215d0de7198481

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Contract Review

Github	https://github.com/Fr0ck/audit
Commit	f724959d1b9a6081216ce40991215d0de7198481
File	Token/FrockTokenV1.sol

Audit Updates

Initial Audit	16h of February 2022
Corrected phase 1	17h of February 2022
Corrected phase 2	21h of February 2022

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

Corrected phase 2

All the findings have been addressed on the current commit. You can find the previous iterations in the v1 and v2 folders on the Github folder.

BC - Blacklisted Contracts

Criticality	medium
Location	contract.sol#L131

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `setBlacklist` function.

```
require(!isBlacklisted[from] && !isBlacklisted[to], "Blacklisted: user  
blacklisted");
```

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.

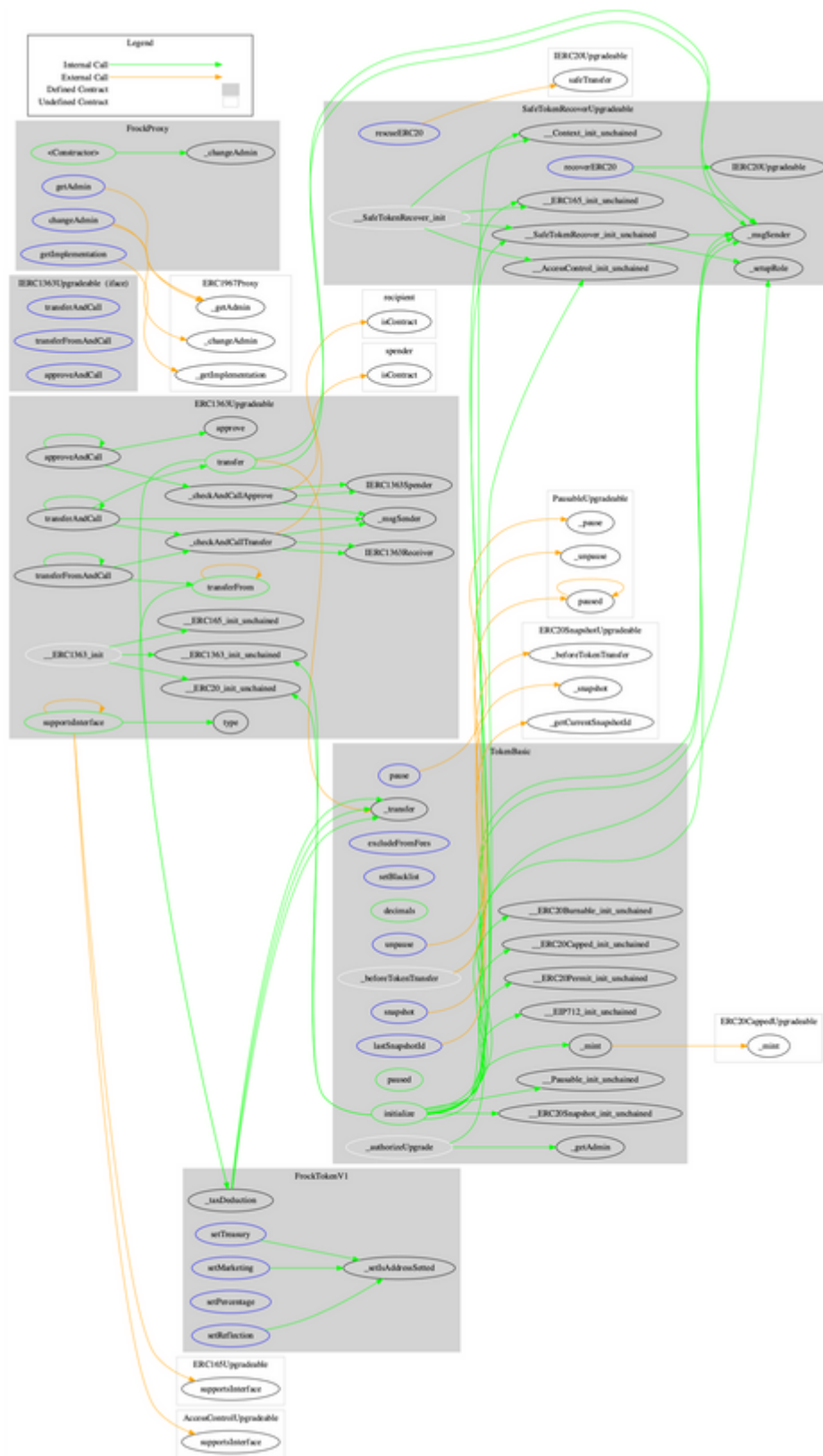
Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeTokenRecoverUpgradeable	Implementation	Initializable, AccessControlUpgradeable		
	__SafeTokenRecover_init	Internal	✓	initializer
	__SafeTokenRecover_init_unchained	Internal	✓	initializer
	recoverERC20	External	✓	onlyRole
	rescueERC20	External	✓	onlyRole
ERC1363Upgradeable	Implementation	Initializable, ERC20Upgradeable, IERC1363Upgradeable, ERC165Upgradeable		
	__ERC1363_init	Internal	✓	initializer
	__ERC1363_init_unchained	Internal	✓	initializer
	supportsInterface	Public		-
	transferAndCall	Public	✓	-
	transferAndCall	Public	✓	-
	transferFromAndCall	Public	✓	-
	transferFromAndCall	Public	✓	-
	approveAndCall	Public	✓	-
	approveAndCall	Public	✓	-
	_checkAndCallTransfer	Internal	✓	
	_checkAndCallApprove	Internal	✓	
IERC1363Upgradeable	Interface	IERC20Upgradeable, IERC165Upgradeable		
	transferAndCall	External	✓	-

	transferAndCall	External	✓	-
	transferFromAndCall	External	✓	-
	transferFromAndCall	External	✓	-
	approveAndCall	External	✓	-
	approveAndCall	External	✓	-
FrockProxy	Implementation	ERC1967Proxy		
	<Constructor>	Public	Payable	ERC1967Proxy
	getImplementation	External		-
	getAdmin	External		-
	changeAdmin	External	✓	-
FrockTokenV1	Implementation	TokenBasic		
	setReflection	External	✓	onlyRole
	setTreasury	External	✓	onlyRole
	setMarketing	External	✓	onlyRole
	_setIsAddressSetted	Private	✓	
	setPercentage	External	✓	onlyRole
	transfer	Public	✓	-
	transferFrom	Public	✓	-
	_taxDeduction	Internal	✓	
TokenBasic	Implementation	Initializable, UUPSUpgradeable, ERC20CappedUpgradeable, ERC20BurnableUpgradeable, ERC20PermitUpgradeable, ERC1363Upgradeable, AccessControlUpgradeable, SafeTokenRecoverUpgr		

		adeable, PausableUp gradeable, ERC20Snap shotUpgrad eable		
	initialize	Public	✓	initializer
	excludeFromFees	External	✓	onlyRole
	setBlacklist	External	✓	onlyRole
	decimals	Public		-
	_authorizeUpgrade	Internal	✓	
	_mint	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	pause	External	✓	onlyRole
	unpause	External	✓	onlyRole
	paused	Public		-
	supportsInterface	Public		-
	snapshot	External	✓	onlyRole
	lastSnapshotId	External		-

Contract Flow



Summary

The smart contract analysis reported one issue. The contract owner has the authority to blacklist addresses. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. The maximum allowed fees is 22%.

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About Coinscope

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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>