Audit Report

Fractional Rocket Token

February 2022

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Contract Review

Github	https://github.com/Fr0ck/audit
Commit	573b1c6536c35e0fb9e8b03bd00339ee839cc645
File	Token/FrockTokenV1.sol

Audit Updates

Initial Audit	16h of February 2022
Corrected	17h 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

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, PausableUpgradeable, ERC20SnapshotUpgradeable		
	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
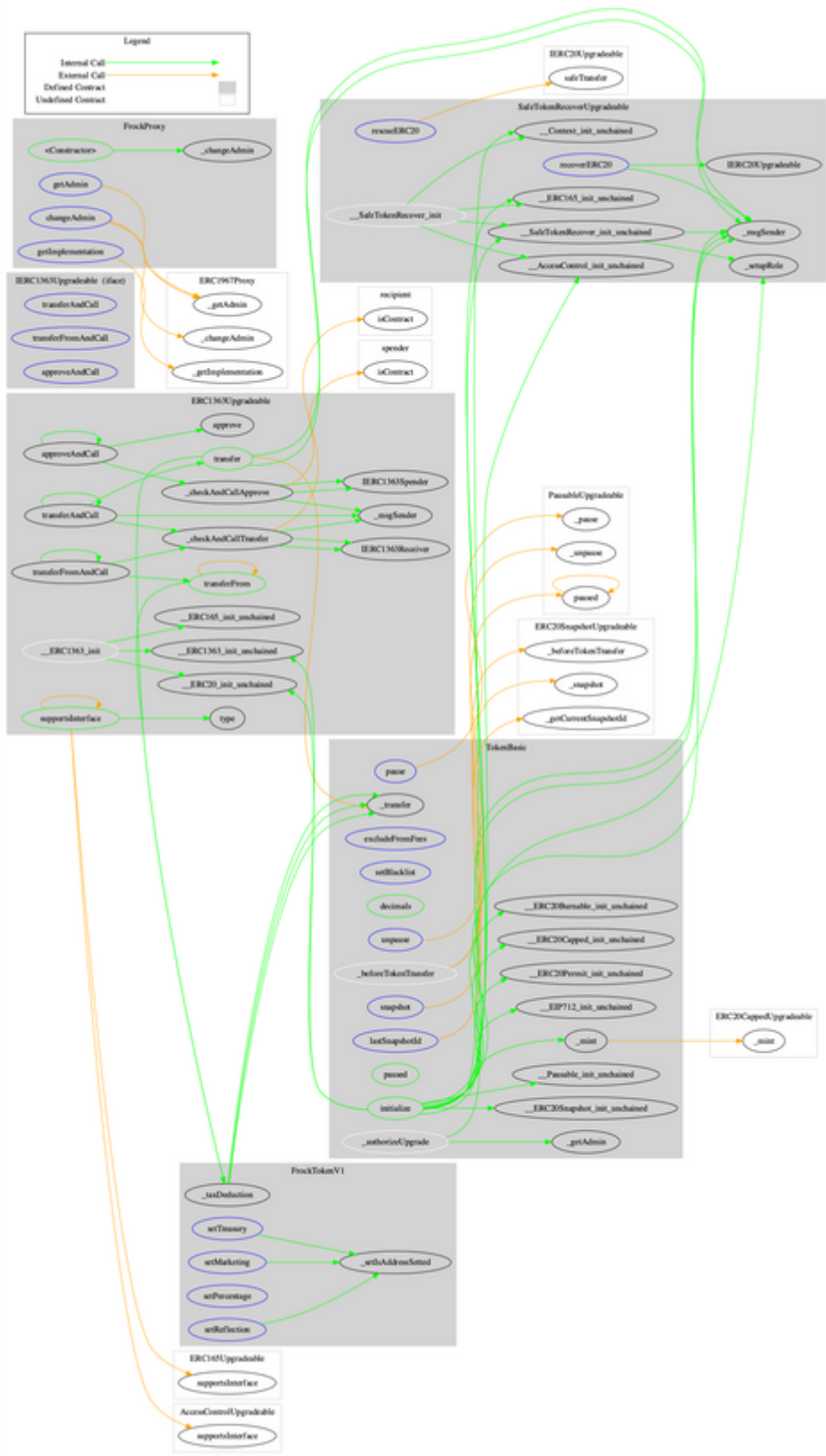
Summary

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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