Audit Report

Fractional Rocket Vault

February 2022

Table of Contents

Contract Review

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

Audit Updates

Initial Audit	16h of February 2022
Corrected phase 1	18h of February 2022
Corrected phase 2	21h of February 2022

Contract Analysis

The contract implements a time-locker feature. It locks a specific amount of tokens for a period of time. After that period, the address that locked the tokens can periodically withdraw the amount. The locker works once and only for a single address. The locker cannot be reused.

The lock can be connected with an external contract that implements the *claimReward()* function. That means that it can be connected with the Fractional Rocket Dividend Distributor and claim the rewards that are proportional to the locked address. The locker can claim the rewards even if the amount cannot be withdrawn.

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.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IDividenDistributor	Interface			
	claimReward	External	✓	-
Vault	Implementation	Context		
	<Constructor>	Public	✓	-
	lockToken	External	✓	-
	currentEpoch	Public		-
	withdraw	External	✓	-
	claimDividen	External	✓	-
	_safeTransferETH	Internal	✓	
	<Receive Ether>	External	Payable	-
	<Fallback>	External	Payable	-

Contract Flow
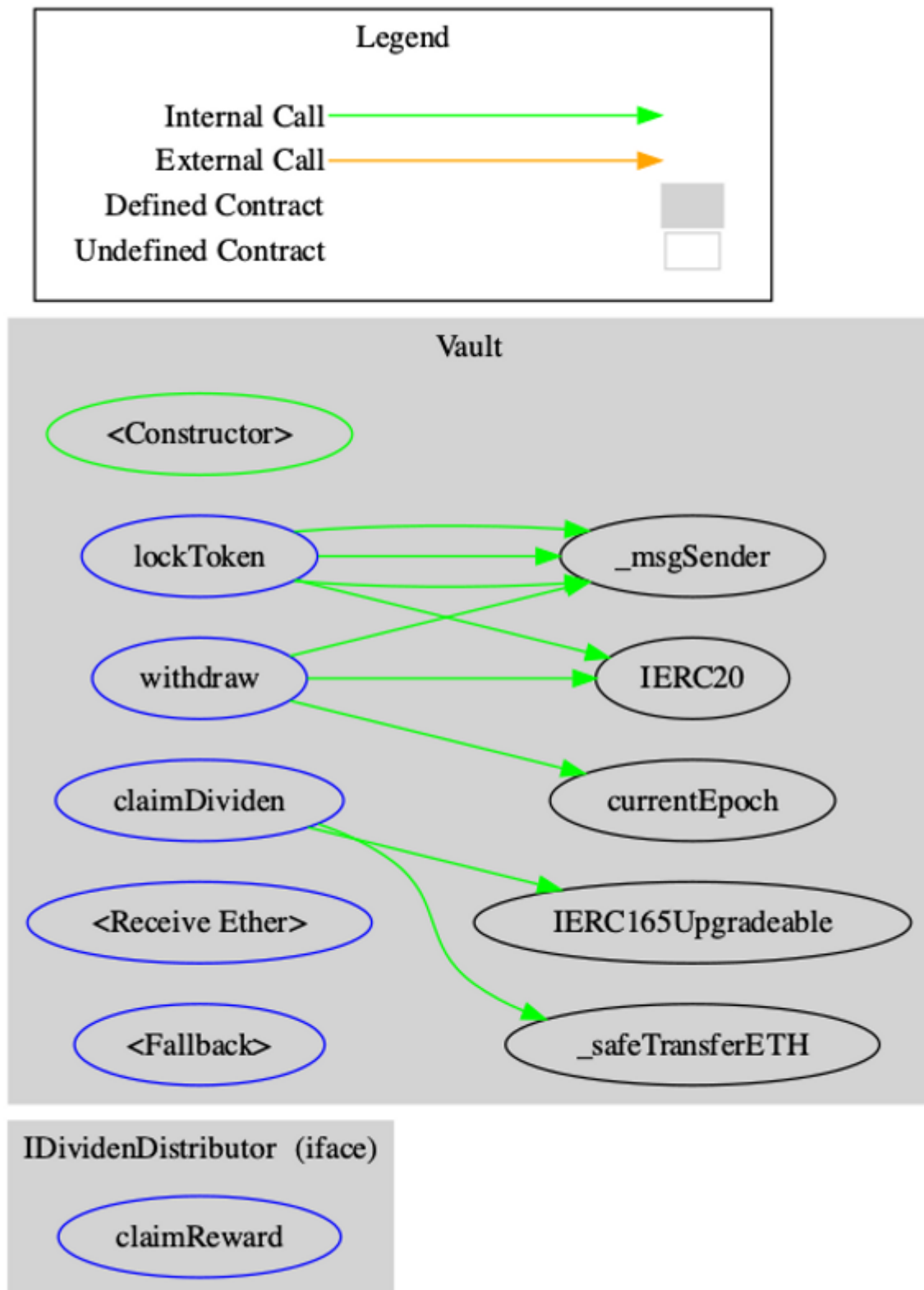
Summary

The Smart Contract analysis reported no compiler error or critical issues. The contract implements a fundamental time-lock mechanism. In this audit we analyse the business logic, security investigation and suggest some improvements.

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