Volary Audit Report

On testing all the contract functions behave as they are intended to be. Unit tests that checked various behavior scenarios worked as intended

• Requirements: requirements

Code

Version: 1.0<u>Test Cases</u>

Audit Report

Function & State Variable Default Visibility

NO risk and vulnerabilities as all the variables are defined with visibility explicitly.

Integer Overflow and Underflow

NO risk and vulnerabilities

Unchecked Call Return Value

NO risk and vulnerabilities as there are no low level calls included in the contract

Unprotected Ether Withdrawal

NO risk and vulnerabilities

Unprotected Self Destruct Instruction

NO risk and vulnerabilities

REENTRANCY ATTACK

NO risk and vulnerabilities. No external contracts are being called

Uninitialized Storage Pointer

NO risk and vulnerabilities

Assert Violation

NO risk and vulnerabilities. No assert functions are used

Use of Deprecated Solidity Functions

NO risk and vulnerabilities. No deprecated solidity functions are used

Delegatecall to Untrusted Callee

NO risk and vulnerabilities

DoS with Failed Call

NO risk and vulnerabilities. No external calls made on the contract

Transaction Order Dependence

NO risk and vulnerabilities

Authorization through tx.origin

NO risk and vulnerabilities. tx.origin is not used on the contract

Block values as a proxy for time

NO risk and vulnerabilities.block.timestamp is not used on the contract.

Signature Malleability

NO risk and vulnerabilities. Does Not implement any signature verification on chain

Shadowing State Variables

NO risk and vulnerabilities. Even though the contract inherits ownable there aren't naming collisions

Weak Sources of Randomness from Chain Attributes

NO risk and vulnerabilities.does not generate any random numbers

Missing Protection against Signature Replay Attacks

NO risk and vulnerabilities. Does Not implement any signature verification on chain

Lack of Proper Signature Verification

NO risk and vulnerabilities. Does Not implement any signature verification on chain

Requirement Violation

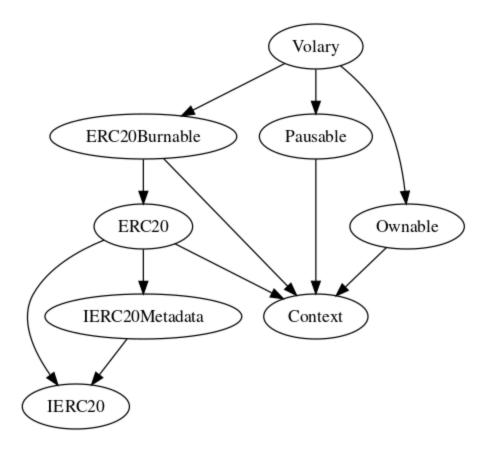
NO risk and vulnerabilities.all the require statements are only placed to make sure that the corresponding function would not be functioning incase incorrect parameter values

Write to Arbitrary Storage Location

NO risk and vulnerabilities. This contract stores addresses of creator of contract but protected.

Incorrect Inheritance Order

NO risk and vulnerabilities.correct order of multi inheritance



Insufficient Gas Griefing

NO risk and vulnerabilities. There aren't any relay calls

Test Code Coverage

The test suite checks all the functions and covers 100 percent of the code.

			% Funcs		
File	% Stmts	% Branch		% Lines	Uncovered Lines
contracts/	100	100	100	100	
Volary.sol	100	100	100	100	
All files	100	100	100	 100 	

Possible Deployment Issues

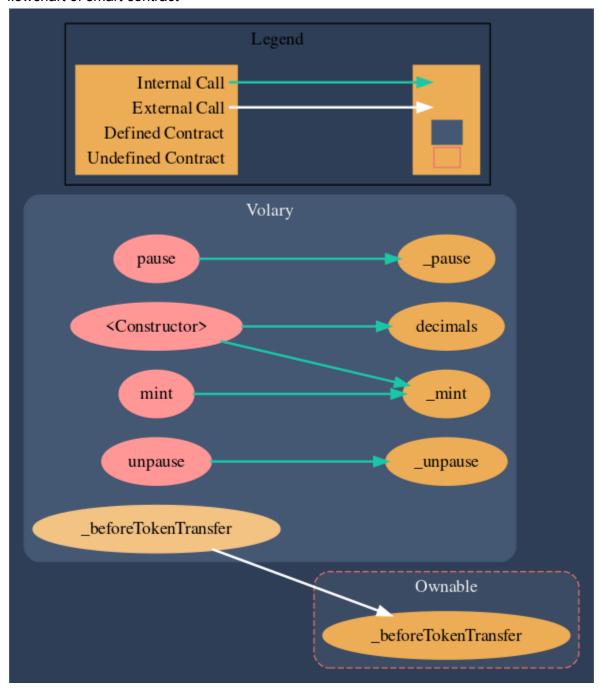
No issues with deployment when optimization is enabled with 200 runs

Possible Code Optimization

Code can be optimized by making variables with getter functions private

Smart Contract Visual Representation

flowchart of smart contract



Results

Description Of Vulnerability	Risk Level		
Function & State Variable Default Visibility	NA		
Integer Overflow and Underflow	NA		
Unchecked Call Return Value	NA		
Unprotected Ether Withdrawal	NA		
Unprotected Self Destruct Instruction	NA		
Reentrancy Attack	NA		
Uninitialized Storage Pointer	NA		
Assert Violation	NA		
Use of Deprecated Solidity Functions	NA		
Delegatecall to Untrusted Callee	NA		
DoS with Failed Call	NA		
Transaction Order Dependence	NA		
Authorization through tx.origin	NA		
Block values as a proxy for time	NA		
Signature Malleability	NA		
Shadowing State Variables	NA		
Weak Sources of Randomness from Chain Attributes	NA		
Missing Protection against Signature Replay Attacks	NA		
Lack of Proper Signature Verification	NA		
Requirement Violation	NA		

Write to Arbitrary Storage Location	NA
Incorrect Inheritance Order	NA
Insufficient Gas Griefing	NA

Final Report

The contract passes the audit with no critical issues or security concerns.

