

Smart Contract Security Audit V1

Proxy Admin Smart Contract Audit

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Background

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Project Information

- **Platform:** Binance Smart Chain
- **Name:** ProxyAdmin
- **Language :** Solidity
- **Contract Address:** 0x6738bb8ca7c2d9c99605e491d502924d37b3ade0 , 0x963e958cb843dd184cc155a81fec8e7d1faf94b2
- **Code Source:** <https://github.com/TerraDharitri/drt-pREWA/tree/main/contracts>

ProxyAdmin

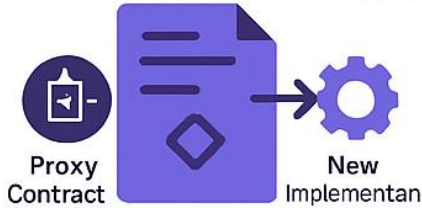
Secure Management of UpgradeableProxies

Overview

Timelocked

Pole Based

Emergency
Awake



Manages upgrades for transparent upgradeable proxies, ensuring secure and controlled updates with a timelock mechanism.

Core Components

C Contracts

- AccessControl
- emergencyController
- ✓ valid Implementations
- Implementation count
- upgradeProposals
- upgradeTimelock

Key Variables

UpgradeProposed
(address implementation, address proposer)

changeProxyAdmin
(address proxy, address admin)

Query Functions
getProxyAdmin

Main Functions

✓ Upgrade Management

AccessControl

EmergencyController

ProxyAdmin

AccessControl

EmergencyController

upgradeProposal

UpgradeProposals

✓ Administration

changeProxyAdmin

address proxy, address admin

✓ Query Functions

getProxyAdmin(address proxy)

address proxy, address admin

⚠ Cancellation

cancel(address proxy)

Upgrade Mechanics

Proposal

PROPOSAL



Specifying
proxy and new
implementation

Wait Timelock



Wait period
required
duration

Execution/ Cancellation



Ensures
non-reversible,
valid timelocks

Events



UpgradeProposed(proxy
implementation, address proposer)

UpgradeExecuted(proxy,
address implementation)

UpgradeCancelled(proxy
implementation)

Usage Flow

Step 1

Initialize contract
position, address admin,
AccessControl and
EmergencyController

Step 2

Propose upgrade
proposal/proposal

Execute or cancel

Error Handling

⚠ Custom errors

PA.ImplZero

PA.UpgradePropExists

PA.TimelockNotYetExpired



Executive Summary

According to our assessment, the customer's solidity smart contract is **Well-Secured**.

Well Secured	✓
Secured	
Poor Secured	
Insecure	

Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 0 low, 0 very low-level issues and 2 notes in all solidity files of the contract

The files:

ProxyAdmin.sol

Audit Score:

100% secure



File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
ProxyAdmin.sol	5d6df39057e92d0053b038fd9c39e4d5e886b8a3	0x6738bb8ca7c2d9c99605e491d502924d37b3ade0 , 0x963e958cb843dd184cc155a81fec8e7d1faf94b2

- Contract: ProxyAdmin
- Inherit: Initializable, IEmergencyAware
- Observation: All passed including security check
- Test Report: passed
- Score: passed
- Conclusion: passed

Function	Test Result	Type / Return Type	Score
accessControl	✓	Read / public	Passed
checkEmergencyState	✓	Read / public	Passed
emergencyController	✓	Read / public	Passed
getEmergencyController	✓	Read / public	Passed
isEmergencyPaused	✓	Read / public	Passed
getImplementationCount	✓	Read / public	Passed
getProxyImplementation	✓	Read / public	Passed
getProxyAdmin	✓	Read / public	Passed
getUpgradeProposal	✓	Read / public	Passed
implementationCount	✓	Read / public	Passed
upgradeProposals	✓	Read / public	Passed
upgradeTimelock	✓	Read / public	Passed
validImplementations	✓	Read / public	Passed
addValidImplementation	✓	Write / public	Passed

cancelUpgrade	✓	Write / public	Passed
changeProxyAdmin	✓	Write / public	Passed
emergencyShutdown	✓	Write / public	Passed
initialize	✓	Write / public	Passed
executeUpgrade	✓	Write / payable	Passed
proposeUpgrade	✓	Write / public	Passed
proposeUpgradeAndCall	✓	Write / public	Passed
removeValidImplementation	✓	Write / public	Passed
updateTimelock	✓	Write / public	Passed
setEmergencyController	✓	Write / public	Passed

Issues Checking Status

SWC Attack Analysis

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) for more info check

<https://swcregistry.io/>

No.	Issue Description	Checking Status
136	Unencrypted Private Data On-Chain	Passed
135	Code With No Effects	Passed
134	Message call with hardcoded gas amount	Passed
133	Hash Collisions With Multiple Variable Length Arguments	Passed
132	Unexpected Ether balance	Passed
131	Presence of unused variables	Passed
130	Right-To-Left-Override control character (U+202E)	Passed
129	Typographical Error	Passed
128	DoS with block gas limit.	Passed
127	Arbitrary Jump with Function Type Variable	Passed
126	Insufficient Gas Griefing	Passed
125	Incorrect Inheritance Order	Passed
124	Write to Arbitrary Storage Location	Passed
123	Requirement Violation	Passed
122	Lack of Proper Signature Verification	Passed
121	Missing Protection against Signature Replay Attacks	Passed
120	Weak Sources of Randomness from Chain Attributes	Passed
119	Shadowing State Variables	Passed

118	Incorrect Constructor Name	Passed
117	Signature Malleability	Passed
116	Block values as a proxy for time	Not Passed
115	Authorization through tx.origin	Passed
114	Transaction Order Dependence	Passed
113	DoS with Failed Call	Passed
112	Delegatecall to Untrusted Callee	Passed
111	Use of Deprecated Solidity Functions	Passed
110	Assert Violation	Passed
109	Uninitialized Storage Pointer	Passed
108	State Variable Default Visibility	Passed
107	Reentrancy	Passed
106	Unprotected SELFDESTRUCT Instruction	Passed
105	Unprotected Ether Withdrawal	Passed
104	Unchecked Call Return Value	Passed
103	Floating Pragma	Not Passed
102	Outdated Compiler Version	Passed
101	Integer Overflow and Underflow	Passed
100	Function Default Visibility	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Note	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical:

No Critical severity vulnerabilities were found.

High:

No High severity vulnerabilities were found.

Medium:

No Medium severity vulnerabilities were found.

Low:

No Very Low severity vulnerabilities were found.

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

#Pragm version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.28 instead of ^0.8.28). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors. And avoid Solidity compiler Bugs check here

<https://sepolia.etherscan.io/solcbuginfo>

Remediation

Remove the ^ sign to lock the pragma version.

Use of block.timestamp for comparisons

The value of block.timestamp can be manipulated by the miner. And conditions with strict equality is difficult to achieve - block.timestamp.

```
upgradeProposals[proxy] = UpgradeProposal(  
    newImplementationProposed,
```

```
block.timestamp,  
bytes(""),  
false,  
isVerifiedFlag,  
msg.sender
```

Recommendation

Avoid use of `block.timestamp`.

Automatic Testing

1- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

☒ Select all ☒ Autorun Run

Security

☒ Select Security

- ☒ **Transaction origin:**
'tx.origin' used
- ☒ **Check-effects-interaction:**
Potential reentrancy bugs
- ☒ **Inline assembly:**
Inline assembly used
- ☒ **Block timestamp:**
Can be influenced by miners
- ☒ **Low level calls:**
Should only be used by experienced devs
- ☒ **Block hash:**
Can be influenced by miners
- ☒ **Selfdestruct:**
Contracts using destructed contract can be broken

Gas & Economy

☒ Select Gas & Economy

- ☒ **Gas costs:**
Too high gas requirement of functions
- ☒ **This on local calls:**
Invocation of local functions via 'this'
- ☒ **Delete dynamic array:**
Use require/assert to ensure complete deletion
- ☒ **For loop over dynamic array:**
Iterations depend on dynamic array's size
- ☒ **Ether transfer in loop:**
Transferring Ether in a for/while/do-while loop

SOLIDITY STATIC ANALYSIS

ERC

☒ Select ERC

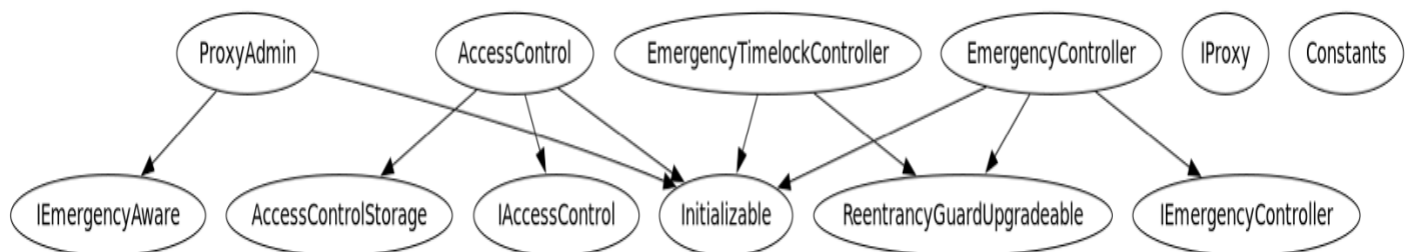
- ☒ **ERC20:**
'decimals' should be 'uint8'

Miscellaneous

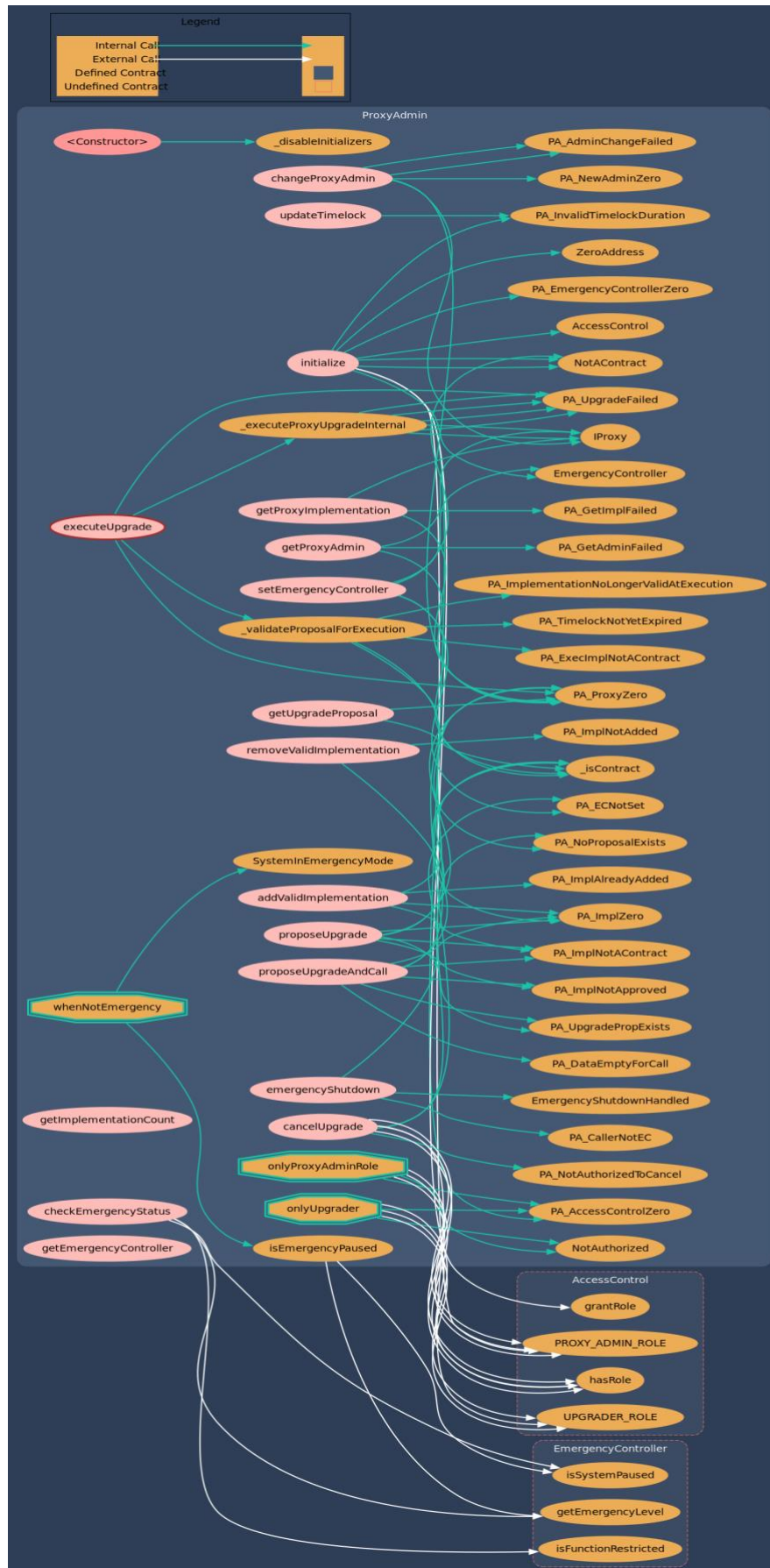
☒ Select Miscellaneous

- ☒ **Constant/View/Pure functions:**
Potentially constant/view/pure functions
- ☒ **Similar variable names:**
Variable names are too similar
- ☒ **No return:**
Function with 'returns' not returning
- ☒ **Guard conditions:**
Ensure appropriate use of require/assert
- ☒ **Result not used:**
The result of an operation not used
- ☒ **String length:**
Bytes length != String length
- ☒ **Delete from dynamic array:**
'delete' leaves a gap in array
- ☒ **Data truncated:**
Division on int/uint values truncates the result

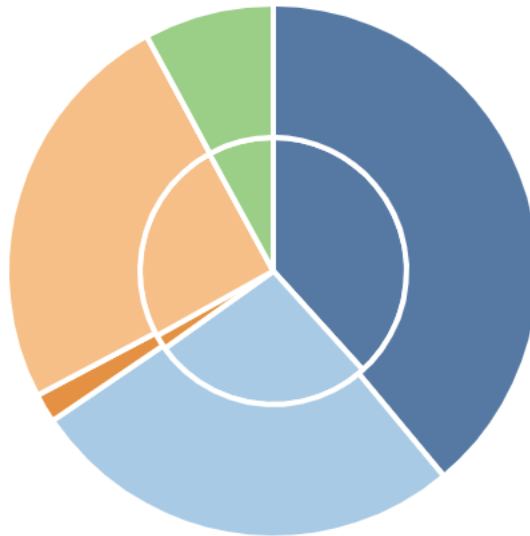
2- Inheritance graph



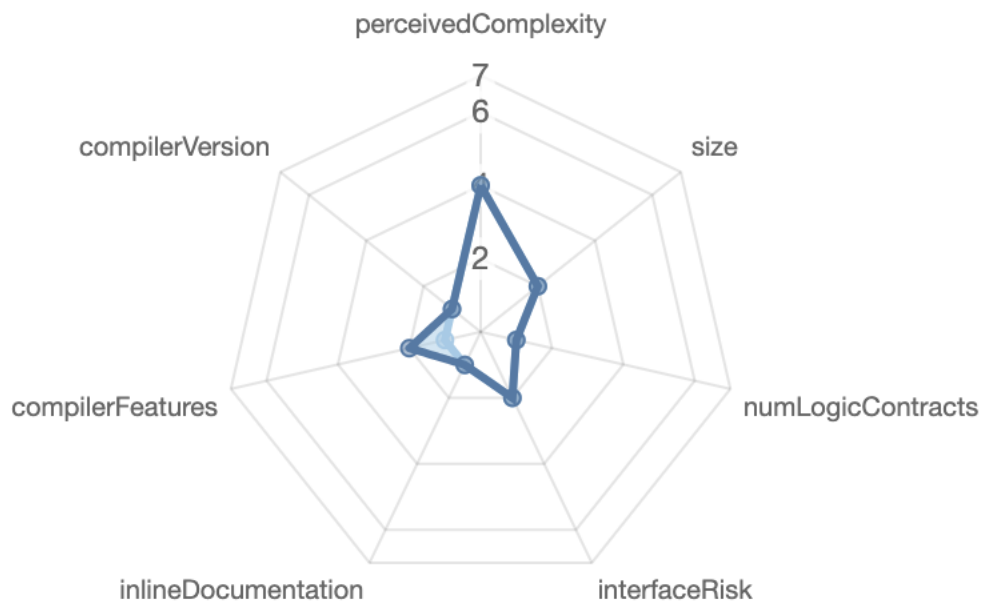
3- Call graph



Source lines



Risk level



Source units in scope

Source Units in Scope

Source Units Analyzed: 1
Source Units in Scope: 1 (100%)

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/proxy/ProxyAdmin.sol	1	_____	541	533	279	196	279	  
	Totals	1	_____	541	533	279	196	279	  

Legend: [-]

- **Lines**: total lines of the source unit
- **nLines**: normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
- **nSLOC**: normalized source lines of code (only source-code lines; no comments, no blank lines)
- **Comment Lines**: lines containing single or block comments
- **Complexity Score**: a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)

Capabilities

Components

 Contracts	 Libraries	 Interfaces	 Abstract
1	0	0	0

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

 Public	 Payable
18	1

External	Internal	Private	Pure	View
17	13	2	0	9

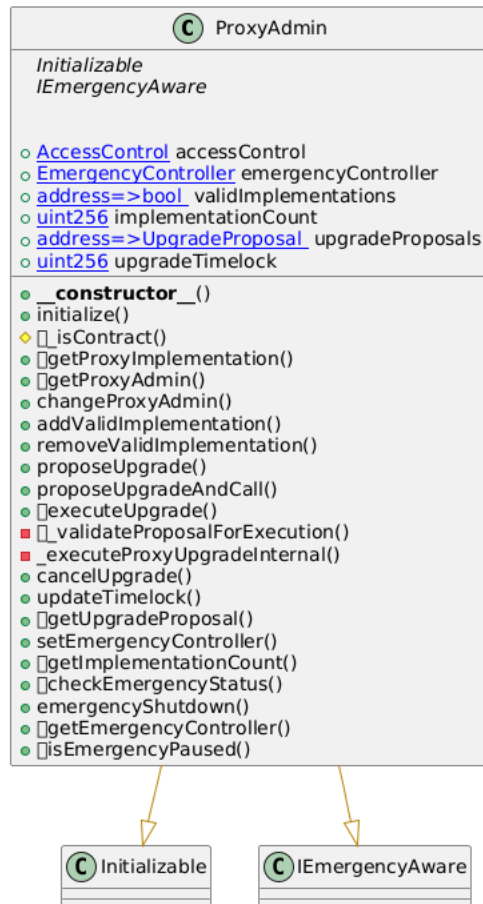
StateVariables

Total	 Public
6	6

Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts	
^0.8.28		yes	yes (3 asm blocks)		
 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECREcover	 New/Create/Create2

Unified Modeling Language (UML)



Functions signature

Function Name	Sighash	Function Signature
initialize	be203094	initialize(address,address,uint256,address)
getProxyImplementation	204e1c7a	getProxyImplementation(address)
getProxyAdmin	f3b7dead	getProxyAdmin(address)
changeProxyAdmin	7eff275e	changeProxyAdmin(address,address)
addValidImplementation	3d381b44	addValidImplementation(address)
removeValidImplementation	3d2d5535	removeValidImplementation(address)
proposeUpgrade	887fbd1c	proposeUpgrade(address,address)
proposeUpgradeAndCall	684bdb2c	proposeUpgradeAndCall(address,address,bytes)
executeUpgrade	394d4bf3	executeUpgrade(address)
cancelUpgrade	c44fb8ec	cancelUpgrade(address)
updateTimelock	f1ccfffd	updateTimelock(uint256)
getUpgradeProposal	2aa1bda0	getUpgradeProposal(address)
setEmergencyController	6ca7dc89	setEmergencyController(address)
getImplementationCount	5495a8fa	getImplementationCount()
checkEmergencyStatus	8aed668a	checkEmergencyStatus(bytes4)
emergencyShutdown	eb1676c1	emergencyShutdown(uint8)
getEmergencyController	c993cc9d	getEmergencyController()
isEmergencyPaused	290d10c4	isEmergencyPaused()

Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/drt-pREWA/contracts/proxy/ProxyAdmin.sol	5d6df39057e92d0053b038fd9c39e4d5e886b8a3
/Users/macbook/Desktop/drt-pREWA/contracts/proxy/interfaces/IProxy.sol	36b989d4dcc83011c7a0d54ae2e8abfd07fa001e
/Users/macbook/Desktop/drt-pREWA/contracts/access/AccessControl.sol	40163fa249f10365c03cf1fa9ddd26e2f6eb1005
/Users/macbook/Desktop/drt-pREWA/contracts/access/storage/AccessControlStorage.sol	2a1f4c3d6956a89011b090a62b15254b1d720d65
/Users/macbook/Desktop/drt-pREWA/contracts/access/interfaces/IAccessControl.sol	540ec54eaade1c05a650af086ebf959654ec6322
/Users/macbook/Desktop/drt-pREWA/contracts/libraries/Errors.sol	0974f6f49e3b655fa93a2792154f1b506ec03c74
/Users/macbook/Desktop/drt-pREWA/contracts/interfaces/IEmergencyAware.sol	be6e0a371b0a5f62d5c7dc06e5c0c4121dcc7ca1
/Users/macbook/Desktop/drt-pREWA/contracts/controllers/EmergencyController.sol	8e73765eaa98f95db8f5eb7a40cd13b0dc845266
/Users/macbook/Desktop/drt-pREWA/contracts/interfaces/IEmergencyController.sol	40bc149ec8a1da85c0e4c6170b06f3a0f3b77f3b
/Users/macbook/Desktop/drt-pREWA/contracts/controllers/EmergencyTimelockController.sol	94735e88ad7f750ead488b7ad618b1486cbdb483
/Users/macbook/Desktop/drt-pREWA/contracts/libraries/Constants.sol	62835a8af9d7ab21c0cad9ca03abff6cf4e8e68f

Contracts Description Table

Contract	Type	Bases
L	**Function Name**	**Visibility**
Modifiers		**Mutability**
ProxyAdmin	Implementation	Initializable, IEmergencyAware
L <Constructor>	Public !	NO !
L initialize	External !	initializer
L _isContract	Internal	

```

| L | getProxyImplementation | External ! | |NO! |
| L | getProxyAdmin | External ! | |NO! |
| L | changeProxyAdmin | External ! | 🔒 | onlyProxyAdminRole
whenNotEmergency |
| L | addValidImplementation | External ! | 🔒 | onlyUpgrader |
| L | removeValidImplementation | External ! | 🔒 | onlyUpgrader |
| L | proposeUpgrade | External ! | 🔒 | onlyUpgrader whenNotEmergency
|
| L | proposeUpgradeAndCall | External ! | 🔒 | onlyUpgrader
whenNotEmergency |
| L | executeUpgrade | External ! | 📄 | onlyUpgrader whenNotEmergency
|
| L | _validateProposalForExecution | Private 🔒 | | |
| L | _executeProxyUpgradeInternal | Private 🔒 | 🔒 | |
| L | cancelUpgrade | External ! | 🔒 |NO! |
| L | updateTimelock | External ! | 🔒 | onlyProxyAdminRole |
| L | getUpgradeProposal | External ! | |NO! |
| L | setEmergencyController | External ! | 🔒 | onlyProxyAdminRole |
| L | getImplementationCount | External ! | |NO! |
| L | checkEmergencyStatus | External ! | |NO! |
| L | emergencyShutdown | External ! | 🔒 |NO! |
| L | getEmergencyController | External ! | |NO! |
| L | isEmergencyPaused | Public ! | |NO! |
|||||
| **IProxy** | Interface | |||
| L | implementation | External ! | |NO! |
| L | admin | External ! | |NO! |
| L | changeAdmin | External ! | 🔒 |NO! |
| L | upgradeTo | External ! | 🔒 |NO! |
| L | upgradeToAndCall | External ! | 📄 |NO! |
|||||
| **AccessControl** | Implementation | Initializable,
AccessControlStorage, IAccessControl |||
| L | <Constructor> | Public ! | 🔒 |NO! |
| L | initialize | External ! | 🔒 | initializer |
| L | hasRole | External ! | |NO! |
| L | getRoleAdmin | External ! | |NO! |
| L | grantRole | External ! | 🔒 |NO! |
| L | revokeRole | External ! | 🔒 |NO! |
| L | renounceRole | External ! | 🔒 |NO! |
| L | setRoleAdmin | External ! | 🔒 |NO! |
| L | getRoleMember | External ! | |NO! |
| L | getRoleMemberCount | External ! | |NO! |
| L | getRoleMembersPaginated | External ! | |NO! |
| L | _grantRole | Internal 🔒 | 🔒 | |
| L | _revokeRole | Internal 🔒 | 🔒 | |
| L | _setRoleAdmin | Internal 🔒 | 🔒 | |
|||||
| **AccessControlStorage** | Implementation | |||
|||||
| **IAccessControl** | Interface | |||

```

```

| L | hasRole | External ! | | NO! |
| L | getRoleAdmin | External ! | | NO! |
| L | grantRole | External ! |  | NO! |
| L | revokeRole | External ! |  | NO! |
| L | renounceRole | External ! |  | NO! |
| L | getRoleMember | External ! | | NO! |
| L | getRoleMemberCount | External ! | | NO! |
| L | getRoleMembersPaginated | External ! | | NO! |
| | | | |
| **IEmergencyAware** | Interface | | | |
| L | checkEmergencyStatus | External ! | | NO! |
| L | emergencyShutdown | External ! |  | NO! |
| L | getEmergencyController | External ! | | NO! |
| L | setEmergencyController | External ! |  | NO! |
| L | isEmergencyPaused | External ! | | NO! |
| | | | |
| **EmergencyController** | Implementation | Initializable,
ReentrancyGuardUpgradeable, IEmergencyController | | |
| L | <Constructor> | Public ! |  | NO! |
| L | initialize | External ! |  | initializer |
| L | setRequiredApprovals | External ! |  | onlyAdminRole |
| L | setLevel3TimelockDuration | External ! |  | onlyAdminRole |
| L | setRecoveryAdminAddress | External ! |  | onlyAdminRole |
| L | approveLevel3Emergency | External ! |  | onlyEmergencyRole
nonReentrant |
| L | cancelLevel3Emergency | External ! |  | onlyEmergencyRole
nonReentrant |
| L | executeLevel3Emergency | External ! |  | onlyEmergencyRole
nonReentrant |
| L | setEmergencyLevel | External ! |  | onlyEmergencyRole
nonReentrant |
| L | enableEmergencyWithdrawal | External ! |  | onlyEmergencyRole
nonReentrant |
| L | pauseSystem | External ! |  | onlyPauserRole nonReentrant |
| L | unpauseSystem | External ! |  | onlyPauserRole nonReentrant |
| L | recoverTokens | External ! |  | onlyEmergencyRole nonReentrant |
|
| L | registerEmergencyAwareContract | External ! |  |
onlyEmergencyRole |
| L | removeEmergencyAwareContract | External ! |  |
onlyEmergencyRole |
| L | processEmergencyForContract | External ! |  | nonReentrant |
| L | updateFunctionRestriction | External ! |  | onlyEmergencyRole |
| L | getEmergencyLevel | External ! | | NO! |
| L | getEmergencyWithdrawalSettings | External ! | | NO! |
| L | isSystemPaused | External ! | | NO! |
| L | getEmergencyAwareContractsPaginated | External ! | | NO! |
| L | getApprovalStatus | External ! | | NO! |
| L | isFunctionRestricted | External ! | | NO! |
| L | _resetApprovals | Internal  |  | |
| | | | |

```

```

| **IEmergencyController** | Interface | |||
| L | setEmergencyLevel | External ! |  | NO! |
| L | enableEmergencyWithdrawal | External ! |  | NO! |
| L | pauseSystem | External ! |  | NO! |
| L | unpauseSystem | External ! |  | NO! |
| L | recoverTokens | External ! |  | NO! |
| L | getEmergencyLevel | External ! | | NO! |
| L | getEmergencyWithdrawalSettings | External ! | | NO! |
| L | isSystemPaused | External ! | | NO! |
| L | getEmergencyAwareContractsPaginated | External ! | | NO! |
| |||||
| **EmergencyTimelockController** | Implementation | Initializable,
ReentrancyGuardUpgradeable |||
| L | <Constructor> | Public ! |  | NO! |
| L | initialize | External ! |  | initializer |
| L | setAllowedTarget | External ! |  | onlyEmergencyRole |
| L | setAllowedFunctionSelector | External ! |  | onlyEmergencyRole |
|
| L | proposeEmergencyAction | External ! |  | onlyEmergencyRole
nonReentrant |
| L | executeEmergencyAction | External ! |  | onlyEmergencyRole
nonReentrant |
| L | cancelEmergencyAction | External ! |  | onlyEmergencyRole
nonReentrant |
| L | updateTimelockDuration | External ! |  | onlyEmergencyRole |
| L | getActionStatus | External ! | | NO! |
| L | getAllActionIds | External ! | | NO! |
| L | getActionDetails | External ! | | NO! |
| L | isFunctionSelectorAllowed | External ! | | NO! |
| L | isTargetAllowed | External ! | | NO! |
| |||||
| **Constants** | Library | |||

```

Legend

Symbol	Meaning
:-----:	-----
	Function can modify state
	Function is payable

Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is “Well Secured”.

- ✓ No volatile code.
- ✓ No high severity issues were found.

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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