

# Audit Report July, 2023



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### **Executive Summary**

**Project Name** Vimo Wallet

Overview Vimo Wallet is a hot wallet with custodial properties that only provides a

transfer to whitelisted funds and is made for the internal use case of the client. This wallet had 2 main properties to be checked out Whitelisting

address and transfer of funds.

**Timeline** 29th June, 2023 - 4th July, 2023

**Scope of Audit** The scope of this pentest was to analyse the wallet and API calls for

quality, security, and correctness.

1] github.vimolive.com:3000/

2] https://vaulttest.sarrafapp.com/

In scope Wallet Source code - Whitelisting and Withdraw ( Priority )

4 Issues Foun	High		■ Mediu		
	High	Medium	Low	Informational	
Open Issues	0	0	0	0	
Acknowledged Issues	0	0	1	0	
Partially Resolved Issues	0	0	0	0	
Resolved Issues	0	3	0	0	

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### **Techniques and Methods**

Throughout the pentest of BIT-Wallet, care was taken to ensure:

- Information gathering Using OSINT tools information concerning the web architecture, information leakage, web service integration, and gathering other associated information related to web server & web services.
- Using Automated tools approach for Pentest like Nessus, Wireshark, etc.
- Platform testing and configuration
- Error handling and data validation testing
- Encryption-related protection testing
- Client-side and business logic testing

#### **Tools and Platforms used for Pentest**

- Burp Suite
- DNSenum
- Dirbuster
- SQLMap
- Acunetix
- Neucli
- Nabbu
- Turbo Intruder
- Nmap
- Metasploit
- Horusec
- Postman
- Netcat
- Nessus and many more.

#### **Types of Issues**

#### **Open**

Security vulnerabilities identified that must be resolved and are currently unresolved.

#### **Resolved**

These are the issues identified in the initial audit and have been successfully fixed.

#### **Acknowledged**

Vulnerabilities which have been acknowledged but are yet to be resolved.

#### **Partially Resolved**

Considerable efforts have been invested to reduce the risk/impact of the security issue, but are not completely resolved.

#### **Types of Severities**

#### High

A high severity issue or vulnerability means that your smart contract can be exploited. Issues on this level are critical to the smart contract's performance or functionality, and we recommend these issues be fixed before moving to a live environment.

#### Medium

The issues marked as medium severity usually arise because of errors and deficiencies in the smart contract code. Issues on this level could potentially bring problems, and they should still be fixed.

#### Low

Low-level severity issues can cause minor impact and or are just warnings that can remain unfixed for now. It would be better to fix these issues at some point in the future.

#### **Informational**

These are severity issues that indicate an improvement request, a general question, a cosmetic or documentation error, or a request for information. There is low-to-no impact.

## **Checked Vulnerabilities**

<b>✓</b>	Improper Authentication	<b>Y</b>	Broken Access Controls
<b>Y</b>	Improper Resource Usage	<b>Y</b>	Insecure Cryptographic Storage
~	Improper Authorization	~	Insufficient Cryptography
~	Insecure File Uploads	~	Insufficient Session Expiration
~	Insecure Direct Object References	~	Insufficient Transport Layer Protection
~	Client-Side Validation Issues	~	Unvalidated Redirects and Forwards
~	Rate Limit	~	Information Leakage
~	Input Validation	~	Broken Authentication and Session Management
V	Injection Attacks	~	Denial of Service (DoS) Attacks
~	Cross-Site Scripting (XSS)	~	Malware
<u>~</u>	Cross-Site Request Forgery	V	Third-Party Components



Security Misconfiguration

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### **Manual Testing**

### **High Severity Issues**

No issues found

### **Medium Severity Issues**

1. Input Validation - Address type

#### **Description**

The address in the registered wallet is endpoint doesn't have any validation that the entered address is from the ETH chain or BNB chain or TRX chain. This type of input validation is needed to avoid any confusion to transfer funds and to only be able to add sufficient and correct addresses that are actually needed to be whitelisted and throw an error if they are from an unsupported chain.

Vulnerable File Location: https://vaulttest.sarrafapp.com/register-wallet

#### **Steps to Reproduce**

- 1. Visit this endpoint and add an address with a random agent name. Example: 0xabcd.... or TLDadstf..... Or bnbrhrhs35..... and random agent name and click on register
- 2. You will get that address registered without cross-verifying if the address is from the correct chain.

#### Recommendation

Set up proper tron-based wallet validation as you have only funds on that chain. <a href="https://github.com/TronWallet/wallet-address-validator">https://github.com/TronWallet/wallet-address-validator</a>

#### **Status**

**Resolved** 

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#### 2. Weak Id Generation

#### **Description**

The "\_id" parameter in the storage can be enumerated as only the last 2 digits and one digit in the missile keeps on changing by a +2 of frequency.

**Vulnerable File Location:** https://vaulttest.sarrafapp.com/register-wallet

#### **Steps to Reproduce**

- 1. Enter the wallet address and agent name once and click on Register
- 2. Change the details and click on Register again.
- 3. Both times most characters of \_id are same.

This should not be the case as these numbers should be randomly generated \_id's and need to be that way for security issues.

#### Recommendation

Generate and random \_id's and keep all values changing.

#### **POC**

64a2a6b5762d54e38e2aa045 64a2a6d5762d54e38e2aa047

#### **Status**

Resolved

#### 3. Incorrect amount transfer

#### **Description**

When adding the value in the amount section it only sends 1 USDT even after having a condition to have a value above 2 but if you enter 2.0000001 or 30.00001 it will still send only 1 USDT.

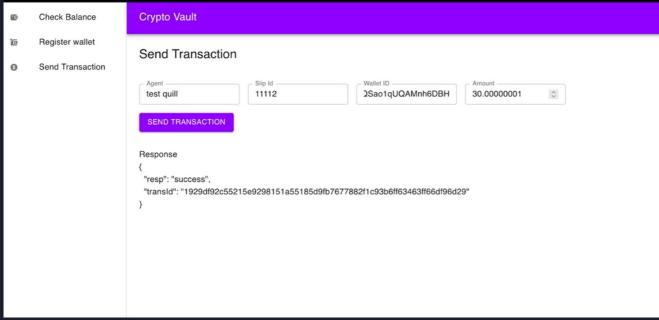
Vulnerable File Location: https://vaulttest.sarrafapp.com/send-transaction

#### **Steps to Reproduce**

- 1. Visit the endpoint above and enter any whitelisted address and enter a slip id and amount to any value above 2 i.e 2.0000001 and click on send
- 2. It will trigger the Txn as a success and give you a valid txn hash to check.
- 3. If you check the txn on Explorer it will show that you sent only 1 USDT and not 2.000001

#### POC





#### **Status**

Resolved



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### **Low Severity Issues**

#### 4. Multiple Deprecated Libraries in package-lock.json

#### **Description**

package-lock Stores files that can be useful for the dependency of the application. This is used for locking the dependency with the installed version. It will install the exact latest version of that package in your application and save it in package. This arises a problem if the dependency used has an exploit in the version mentioned. It can create a backdoor for an attacker.

#### **Vulnerable Dependencies**

xml2js

semver

request

passport

moment-timezone

jsonwebtoken

minimatch

dicer

mongoose

qs

#### **Recommended Fix**

- 1) Update all the above mentioned Dependencies
- 2) Remove any Library Not needed.

#### **Impact**

Multiple of these libraries have public exploits and CVE-registered issues that have been patched and can help your application stay more secure from any dependency-vulnerable issues.

#### **Status**

**Acknowledged** 

### **Closing Summary**

In this report, we have considered the security of Vimo's wallet. We performed our audit according to the procedure described above.

Some issues of medium, and low severity were found, Some suggestions and best practices are also provided in order to improve the code quality and security posture.

### Disclaimer

QuillAudits Dapp audit is not a security warranty, investment advice, or an endorsement of the Vimo Platform. This audit does not provide a security or correctness guarantee of the audited smart contracts.

The statements made in this document should not be interpreted as investment or legal advice, nor should its authors be held accountable for decisions made based on them. Securing smart contracts is a multi-step process. One audit cannot be considered enough. We recommend that the Vimo Team put in place a bug bounty program to encourage further analysis of the smart contract by other third parties.

### **About QuillAudits**

QuillAudits is a secure smart contracts audit platform designed by QuillHash Technologies. We are a team of dedicated blockchain security experts and smart contract auditors determined to ensure that Smart Contract-based Web3 projects can avail the latest and best security solutions to operate in a trustworthy and risk-free ecosystem.



**850+**Audits Completed



**\$30B**Secured



**800K**Lines of Code Audited



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- Canada, India, Singapore, UAE, UK
- www.quillaudits.com
- ▼ audits@quillhash.com