

# Security Assessment Internet Money Wallet

CertiK Assessed on Dec 27th, 2023



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#### **Internet Money Wallet**

The security assessment was prepared by CertiK, the leader in Web3.0 security.

#### **Executive Summary**

TYPES	ECOSYSTEM	METHODS
Wallet	Extension   Mobile	Manual Review, Static Analysis
	Application	
LANGUAGE	TIMELINE	KEY COMPONENTS
TypeScript	Delivered on 12/27/2023	N/A

#### **Vulnerability Summary**

C	6 Total Findings	4 Resolved	<b>O</b> Mitigated	1 Partially Resolved	1 Acknowledged	<b>O</b> Declined
0	Critical			Critical risks a platform ar should be ca with outstand	are those that impact the safe ad must be addressed immedi utious when interacting with a ding critical risks.	functioning of ately. Users iny application
2	High	2 Resolved		High risks ca errors. Unde can lead to l control of the	n include centralization issues r specific circumstances, thes oss of funds, thief of user data e application.	s and logical e major risks , and/or loss
3	Medium	1 Resolved, 1 Partially Reso	olved, 1 Acknowled	Medium risk dged scale, but th platform or b	s may not pose a security risk ey can affect the overall function e used to target a certain grou	at a large oning of a up of users.
1	Low	1 Resolved		Low risks ca impact. They integrity of th	n be any of the above, but on generally do not compromise e project.	a smaller the overall
0	Informational			Informationa improve the within indust the overall fu	l errors are often recommenda configuration or certain operat ry best practices. They usually inctioning of the application.	ations to tions to fall / do not affect

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# SCOPE INTERNET MONEY WALLET

Source Code	https://gitlab.com/internetmoneyio/wallet/mobile/-/tree/fcc2cd05772622ad233862fc44142a68789abb53
Source Code	https://gitlab.com/internetmoneyio/wallet/chrome/-/tree/7094b5b2deecf64fd0333a8f3af46648d9b2f7f1

## APPROACH & METHODS INTERNET MONEY WALLET

This report has been prepared for Internetmoney to discover issues and vulnerabilities in the application of the Internet Money Wallet project. The Internet Money Wallet is a non-custodial crypto wallet that supports multiple ecosystems.

The pentest was a manual assessment of the security of the application's functionality, business logic, and vulnerabilities, such as those cataloged in the OWASP Top 10. The assessment also included a review of security controls and requirements listed in the OWASP Application Security Verification Standard (ASVS). The pentesters leveraged tools to facilitate their work. However, the majority of the assessment involved manual analysis.

The main objective of the engagement is to test the overall resiliency of the application to various real-world attacks against the application's controls and functions and thereby be able to identify its weaknesses and provide recommendations to fix and improve its overall security posture.

Two members of the CertiK team were involved in completing the engagement, which took place over the course of 3 days in December 2023 and yielded 6 security-relevant findings. The most significant issue is the availability of the wallet and the insecure handling of WalletConnect connection requests.

Other weaknesses were also found and are detailed in the Findings section of the report. We recommend addressing these findings to ensure a high level of security standards and industry practices and to raise the security posture of the application.

# FINDINGS INTERNET MONEY WALLET

0	•	0	0		0
6	0	2	3	1	0
Total Findings	Critical	High	Medium	Low	Informational

This report has been prepared to discover issues and vulnerabilities for Internet Money Wallet. Through this security assessment, we have uncovered 6 issues ranging from different severity levels. Utilizing the techniques of Manual Review & Static Analysis to complement rigorous testing process, we discovered the following findings:

ID	Title	Category	Severity	Status
GLOBAL-01	The Client-Side Wallet Becomes Completely Unusable When The Wallet API Is Down.	Denial of Service	High	Resolved
GLOBAL-02	Lack Of "Attestation" Origin Verification During WalletConnect Connection	Security Misconfiguration	High	Resolved
GLOBAL-03	Lack Of Certificate Pinning	Insufficient Cryptography	Medium	Resolved
GLOBAL-06	Screenshot Backgrounding	Information Disclosure	Medium	Acknowledged
GLOBAL-07	Private Key Display Allow Screenshot	Insecure Data Storage	Medium	<ul> <li>Partially Resolved</li> </ul>
GLOBAL-04	Crash Caused By Invalid Token Import	Denial of Service	Low	Resolved

# GLOBAL-01THE CLIENT-SIDE WALLET BECOMES COMPLETELYUNUSABLE WHEN THE WALLET API IS DOWN.

Category	Severity	Location	Status
Denial of Service	• High		Resolved

#### Description

During the security assessment of the Internet Money wallet Chrome extension and mobile app, it was observed that the application becomes entirely nonfunctional when it fails to communicate with server-side APIs. Instead of providing limited functionality or informative error messages to the user, the application displays a blank screen, which severely degrades the user experience.

#### Impact

The quality of the server-side API appears to be unstable, as indicated in the API's pentest report. When the server-side API encounters issues, it causes the entire wallet to become inoperable, leaving users with a blank screen and no immediate workaround. As a non-custodial, decentralized wallet application, this behavior significantly impacts the wallet's accessibility and reliability. It stops users from viewing their balance, accessing their private keys and seed phrases, or transferring tokens.

#### Proof of Concept



#### Recommendation

To mitigate this issue, it is recommended that the wallet application be enhanced to ensure core functionalities remain accessible, even when server-side APIs are down. At a minimum, users should be able to view their balance, export their private key and seed phrase, and initiate token transfers without dependency on server API connectivity.

#### **Alleviation**

Fixed in commit 7094b5b2deecf64fd0333a8f3af46648d9b2f7f1.

# GLOBAL-02LACK OF "ATTESTATION" ORIGIN VERIFICATIONDURING WALLETCONNECT CONNECTION

Category	Severity	Location	Status
Security Misconfiguration	<ul> <li>High</li> </ul>		Resolved

#### Description

The WalletConnect protocol recently launched a Verify API, which is used to confirm whether the connected origin matches the registered origin on the WalletConnect site. This verification occurs during the connection confirmation in the user's wallet. However, the Internet Money Wallet failed to ensure that the returned origin from the "Attestation" API matches the original origin from the QR code.

#### Impact

The absence of verification might increase the likelihood of wallet users falling victim to targeted phishing attacks when using WalletConnect to connect with a malicious dApp.

#### Proof of Concept

When the user tries to connect to the PancakeSwap DApp using a mobile app, a tampered "attestation" request returns an original that doesn't match the domain the user is trying to connect to. However, the Internet Money Wallet fails to warn the user about the discrepancy. In contrast, when tested with the "Trust Wallet," it displays that the domain is invalid.

Request	Response		÷
Pretty Raw Hex 🗐 🗤 🚍	Pretty Raw Hex Render	🚍 \n 🗉	
<pre>1 GET /attestation/82d017b3188adcd595402d6c99e9fc85dea2540f9e654e677ef1b9421d455734 HTTP/2 2 Host: verify.walletconnect.com 3 Accept-Encoding: gzip, deflate, br 4 User-Agent: okhttp/4.9.2 5 6</pre>	1 HTTP/2 200 GK 2 Date: Tue, 12 Dec 2023 02:59:44 GMT 3 Content-Type: application/json 4 Content-Length: 153 5 Access-Control-Allow-Origin: * 6 Vary: origin 7 Vary: access-control-request-method 8 Vary: access-control-request-meaders		spector 🕮 No
	<pre>1   {     "attestationId":     "82d017b3188adcd595402d6c99e9fc85dea2540f9e6554e677ef1b9421d455734",     "origin":"https://pancakeswapfakefakefakefake.finance",     "isScam":null }</pre>		tes
⑦ (ऄ ← → Search	⑦ (◊) (►) Search	0 highlight	s

Internet Money Wallet's WalletConnect connection pop-up:



When attempting the same attack with the Trust Wallet, it displays a warning stating "invalid domain":



#### Recommendation

It is recommended that the wallet verifies the returned "origin" value of the "attestation" request against the website the user is attempting to connect to. For more information regarding the Verify API, please refer to:

- https://medium.com/walletconnect/unlocking-the-power-of-verify-api-a-step-by-step-guide-for-wallets-4e939a273d9a
- https://docs.walletconnect.com/web3wallet/verify

#### Alleviation

Fixed in commit fcc2cd05772622ad233862fc44142a68789abb53.

### GLOBAL-03 LACK OF CERTIFICATE PINNING

Category	Severity	Location	Status
Insufficient Cryptography	Medium	Mobile application: im-wallet.herokuapp.com	Resolved

#### Description

The application does not implement certificate pinning. Certificate pinning is the act of associating a host with its expected certificate within the application. When the application connects to the host, the stored certificate is compared to the certificate held by the remote host. If the two certificates do not match, the request is dropped. Currently, the application only verifies that the server presents a TLS certificate that is trusted by the Android or iOS trust stores, not validating that the TLS certificate is in fact the one known to be deployed on the servers.

#### Impact

An attacker can man-in-the-middle traffic between the application and the server, if the attacker is able to install a malicious certificate on the user's Android device and the attacker has a privileged network position. This would allow the attacker to disclose sensitive information or modify requests in transit. Additionally, the application is not protected in the case of a malicious or compromised certificate authority already installed on the mobile device.

#### Proof of Concept

- 1. Configure the devices to use Burp Suite as the web proxy.
- 2. Install the Burp Suite certificate as a system-level trusted certificate in the Android devices.
- 3. Notice the Burp proxy can intercept the traffic between the client application and the server.

#### Recommendation

Mobile applications should use certificate pinning to verify the identity of the remote host communicating with the application. Certificate pinning verifies that the client application is connecting to the designated server and not an intermediary attacker.

For more information about certificate pinning and how to implement it in the respective operating systems, see <a href="https://www.owasp.org/index.php/Certificate\_and\_Public\_Key\_Pinning">https://www.owasp.org/index.php/Certificate\_and\_Public\_Key\_Pinning</a>.

#### Alleviation

Fixed in commit: 14a50a486b584004d2ecdf7e9225026f4f829620

### GLOBAL-06 SCREENSHOT BACKGROUNDING

Category	Severity	Location	Status
Information Disclosure	Medium	View account private key interface	<ul> <li>Acknowledged</li> </ul>

#### Description

On mobile devices, a screenshot of the current activity is taken when an application goes into the background and displayed for aesthetic purposes when the app returns to the foreground. This feature may pose a security risk. Sensitive data may be exposed if the user backgrounds the application while sensitive data is displayed. A malicious application that is running on the device and able to continuously capture the screen may also expose data.

#### Impact

An attacker with physical access to the unlocked device or a malicious third party app with access to the auto-generated screenshot of the application can retrieve sensitive information included in the screenshot.

#### Proof of Concept



#### Recommendation

It's recommended for the application to add an overlay to hide or obscure the application screen before moving to the background.

For iOS, add an overlay screen before the application goes into the background, and remove the screen when the application goes into the foreground.

For Android, in addition to adding an overlay, this can be done by setting the FLAG\_SECURE option. The FLAG\_SECURE flag can prevent sensitive information included in the auto-generated screenshot. For more information about the FLAG\_SECURE flag, please see <a href="https://developer.android.com/reference/android/view/Display#FLAG\_SECURE">https://developer.android.com/reference/android/view/Display#FLAG\_SECURE</a> and <a href="https://developer.android.com/reference/android/view/Display#FLAG\_SECURE">https://developer.android.com/reference/android/view/Display#FLAG\_SECURE</a> and <a href="https://developer.android-taking-a-screenshot-when-my-app-goes-to-the-background">https://stackoverflow.com/questions/9822076/how-do-i-prevent-android-taking-a-screenshot-when-my-app-goes-to-the-background</a>

#### Alleviation

[Internet Money team]: This is a relatively low risk threat due to the requirement for a malicious actor to either have physical access to the device or for the user to have installed malicious software with the ability to view screen recordings. Although we have implemented the feature to hide information from the background screenshot on iOS, doing so on Android requires setting the FLAG\_SECURE flag to prevent screenshots entirely. In our response to GLOBAL-07, we explain why we have decided not to set the FLAG\_SECURE flag. Due to that limitation, we cannot hide this information from the background screenshot on Android.

# GLOBAL-07 PRIVATE KEY DISPLAY ALLOW SCREENSHOT

Category	Severity	Location	Status
Insecure Data Storage	Medium		<ul> <li>Partially Resolved</li> </ul>

#### Description

The private key can be used to recover a wallet account. Obtaining the Private key can potentially allow the attacker to gain full control of the wallet. The application neither has a mechanism in place to stop a user from taking a screenshot of the displayed wallet secrets nor displays a warning to remind the user of the risk of taking a screenshot.

#### Impact

Third party apps with "READ\_EXTERNAL\_STORAGE" permission on an Android device or apps with all photo access on an iPhone can read screenshots on the device. Third party apps can retrieve the mnemonic if the mnemonic is included in a screenshot taken by the user.

#### Proof of Concept





# **Account 1 PRIVATE KEY**

SCAMMERS MAY TRY TO STEAL YOUR PRIVATE KEYS BY POSING AS SUPPORT. NO INDIVIDUAL OR SUPPORT WILL EVER ASK FOR THIS INFORMATION. ONLY IMPORT YOUR PRIVATE KEYS INTO REPUTABLE AND TRUSTED APPLICATIONS.

0xcc400c165f1ee6bfb178fadbf251 91b694476eebe05ba0fc5977d10a ae77a43b



### **HIDE PRIVATE KEY**



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#### Recommendation

Screen capture can be prevented by setting the FLAG\_SECURE option. The FLAG\_SECURE flag can prevent user and malicious third-party apps from recording the mnemonic screens and taking screenshots of sensitive information. For more information about the FLAG\_SECURE flag, please see "<u>https://developer.android.com/reference/android/vi</u> ew/Display#FLAG\_SECURE"

#### iOS

There isn't a built-in solution on iOS to prevent the user from taking the screenshot. It's recommended adding a warning to remind a user not to take screenshots when viewing their wallet secrets.

#### Alleviation

**[Internet Money team]**: The risk of this item is relatively quite low, as it requires the user themselves to take a screenshot of their private key or seed phrase and for an attacker to have either physical access to the unlocked device or a malicious app with the correct permissions installed on the user's device. The Internet Money team believes strongly in strengthening users' financial freedom. Some users intentionally choose to screenshot their seed phrase or private keys as part of their backup process. While this is not generally the recommended approach, we do not believe it is our position to prevent a user from doing what they choose with their own keys. Instead, we have implemented an addition to our warning text on these pages. Users are advised that capturing a screenshot of their seed phrase or private keys is not recommended, but they are permitted to do so.

# GLOBAL-04 CRASH CAUSED BY INVALID TOKEN IMPORT

Category	Severity	Location	Status
Denial of Service	• Low		Resolved

#### Description

The wallet features a functionality that allows users to import new tokens. A issue exists where importing an invalid token results in a crash of certain features within the application, thus compromising its stability.

#### Impact

Key functionalities of the wallet are rendered unusable after the crash, imposing on users the inconvenient workaround of having to reinstall the wallet to restore these features.

#### Proof of Concept

1. Import an address that is not a token, such as "0x2043c3db290a44c8fda29d8fc57cdf0f56b5f848"

$\leftarrow$	Curren <b>Binance Smar</b>	t Network <b>t Chain Mainnet</b>	ŝ	?
Account 1 0x2043c3b5f848	Q		++ Valu <b>\$0.0</b>	ue <b>01</b>
	ADD	TOKEN	×	
POPULAR		IMPORT TOKEN		
Note: Anyone	e can create a to version of an	oken, including creating existing token.	a fake	
Token Address				
0x2043c3db290a	44c8fda29d8fc57cd	f0f56b5f848		
Token Symbol				
[object Object]				
Token Precision				
NaN				

2. Modify the token name to 1 and click "IMPORT Token"



3. The wallet will then enter the error page, and the token import/remove page becomes unusable, even after relaunching the wallet.



#### Recommendation

It is recommended that the wallet application implement robust input validation and error handling mechanisms to gracefully manage the import of invalid tokens, ensuring that such an action does not cause features within the wallet to crash.

#### Alleviation

Fixed in commit 7094b5b2deecf64fd0333a8f3af46648d9b2f7f1.

# APPENDIX INTERNET MONEY WALLET

#### Methodology

CertiK uses a comprehensive penetration testing methodology which adheres to industry best practices and standards in security assessments including from OWASP (Open Web Application Security Project), NIST, PTES (Penetration Testing Execution Standard).

Below is a flowchart of our assessment process:



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