

# STAYSAFU AUDIT

*SECURITY ASSESSMENT: OCTOBER 9TH, 2021*

INFINITX

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# SUMMARY

*This report has been prepared for **InfinitX** to discover issues and vulnerabilities in the source code of the **InfinitX** project as well as any contract dependencies that were not part of an officially recognized library.*

*A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and **InfinitX** Deployment techniques. The auditing process pays special attention to the following considerations:*

- Testing the smart contracts against both common and uncommon attack vectors
- Assessing the codebase to ensure compliance with current best practices and industry standards
- Ensuring contract logic meets the specifications and intentions of the client

- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders
- Thorough line-by-line manual review of the entire codebase by industry experts

# OVERVIEW

# VULNERABILITY SUMMARY

# UNDERSTANDING

The **InfinitX** Protocol is a decentralized finance (**DeFi**) token deployed on the Binance smart chain (**BSC**)

**InfinitX** is a rebase token, which means that the total supply is always reduced in order to make the price of a unit token rise. **InfinitX** mainly employs three features in its protocol : reward for holders in **XRP**, LP acquisition mechanism, and marketing-team fee :

Each **InfinitX** buy transaction is taxed **12%** fees of the transaction amount and each sell transaction is taxed **17%**. **5-7%** (5% for buy, 7% for sell) is sold to be redistributed as a reward to the holders in XRP. **2-4%** is accumulated internally until a sufficient amount of capital has been amassed to perform an LP acquisition. When this number is reached, the total tokens accumulated are split with half being converted to BNB and the total being supplied to the **PancakeSwap** contract as liquidity. Finally, **4%** is sold and used for marketing and **1%** is sold and sent to a team wallet.

# PRIVILEGED FUNCTIONS

The contract contains the following privileged functions that are restricted by **onlyOwner** or **onlyMaster** modifiers. They are used to modify the contract configurations and address attributes. We grouped these functions below :

## OWNERSHIP MANAGEMENT

- renounceOwnership
- setMaster

## ACCOUNTS MANAGEMENT

- setMaxWalletPercent\_base1000
- enable\_blacklist
- manage\_blacklist

## TAXES MANAGEMENT

- set\_sell\_multiplier

# LIQUIDITY MANAGEMENT

- setLP

# REBASE MANAGEMENT

- rebase\_percentage\_master
- rebase\_percentage\_owner
- rebase

# TRADING MANAGEMENT

- tradingStatus
- launchStatus
- cooldownEnabled
- rescueToken
- setMaxTxPercent\_base1000
- multiTransfer
- multiTransfer\_fixed



# FINDINGS

## Incorrect error message in multiTransfer

The error message

"GAS Error: max airdrop limit is 500 addresses" isn't accurate as the call will only fail if there is more than 800 addresses (line 921).

## Third-party dependencies

The contract is serving as the underlying entity to interact with third party **PancakeSwap** protocols. The scope of the audit would treat those third party entities as black boxes and assume it's functional correctness. However in the real world, third parties may be compromised that led to assets lost or stolen.

We understand that the business logic of the **InfinitX Protocol** requires the interaction PancakeSwap protocol for adding liquidity to **INX/BNB** pool and swap tokens. We encourage the team to constantly monitor the statuses of

those third parties to mitigate the side effects when unexpected activities are observed.

## **Centralization of major privileges**

The owner of the smart-contract has major privileges over it (he is stop trading, change fees, change the maximum transaction). This can be a problem, and we recommend at least to use a multi-sig wallet as owner address, and at best to establish a community governance protocol to avoid such centralization.

## **Conclusion**

No major issue has been found in the **InfiniX** smart-contract. The findings we reported are low severity issues, and are common to the majority of rewards smart-contracts. The overall security of the smart-contract is very good, the only point that should be improved is the centralization of the privileges.

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