

# STAYSAFU AUDIT

*SECURITY ASSESSMENT: DECEMBER 15TH, 2021*

BABYDEVO

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# SUMMARY

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

*The audit is based on the code of the following BSC smart-contract :*

**0x1c70c6bd57a625cfa61b9f3709f6646c18ee5571**

*A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and **BabyDevo** 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 **BabyDevo** Protocol is a decentralized finance (**DeFi**) token deployed on the Binance smart chain (**BSC**)

**BabyDevo** mainly employs three features in its protocol : reward for holders in **Devolution**, an LP acquisition mechanism and marketing-team fee :

Each **BabyDevo** transaction is taxed by a **10%** fees. **5%** is sold to be redistributed as a reward to the holders in BUSD. **2%** 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, **3%** is sold and used for marketing.

# PRIVILEGED FUNCTIONS

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

## OWNERSHIP MANAGEMENT

- transferOwnership
- renounceOwnership

## ACCOUNTS MANAGEMENT

- excludeFromFees
- excludeMultipleAccountsFromFees
- setMarketingWallet

## TAXES MANAGEMENT

- setSwapTokensAtAmount
- updateUniswapV2Router
- setLiquiditFee
- setMarketingFee
- setAutomatedMarketMakerPair

## REWARDS MANAGEMENT

- excludeFromDividends
- updateClaimWait
- updateMinimumTokenBalanceForDividends
- updateDividendTracker
- setTokenRewardsFee
- updateGasForProcessing

## TRADING MANAGEMENT

- setEnableAntiBot

# OWNERSHIP

Here is a non-exhaustive list of what the smart-contract owner can and cannot do.

Feature	Able to modify	Details
Transaction fees	<b>Partially</b>	25 %
Max transaction	<b>No</b>	
Blacklist	<b>No</b>	
Whitelist	<b>No</b>	
Mint	<b>No</b>	
Renounce	<b>Yes</b>	
Ownership	<b>Yes</b>	

# FINDINGS

## Unused event (*LiquidityWalletUpdated*)

This event is declared at the line 2650 of the smart-contract but never used anywhere. We recommend to delete it.

## 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 **BabyDevo Protocol** requires the interaction PancakeSwap protocol for adding liquidity to **BABYDEVO/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.

## Conclusion

No major issue has been found in the **BabyDevo** 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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This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology. Blockchain technology and cryptographic assets present a high level of ongoing risk.

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