



BABYDUO Smart Contract Security Audit

<u>TechRate</u> September, 2021

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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 us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by BABYDUO to perform an audit of smart contracts:

https://bscscan.com/address/0x822A4Cf3667FEb3c5f98D17d4AdFF924F1A1DD0d#code

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.

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Issues Checking Status

Issue de	escription	Checking status
1. Compile	er errors.	Passed
2. Race co	onditions and Reentrancy. Cross-function ons.	race Passed
3. Possible	e delays in data delivery.	Passed
4. Oracle	calls.	Passed
5. Front ru	inning.	Passed
6. Timesta	mp dependence.	Passed
7. Integer	Overflow and Underflow.	Passed
8. DoS with	h Revert.	Passed
9. DoS with	h block gas limit.	Low issues
10. Methods	s execution permissions.	Passed
11. Econom	ny model of the contract.	Passed
12. The imp	act of the exchange rate on the logic.	Passed
13. Private	user data leaks.	Passed
14. Maliciou	us Event log.	Passed
15. Scoping	g and Declarations.	Passed
16. Uninitia	lized storage pointers.	Passed
17. Arithme	etic accuracy.	Passed
18. Design I	Logic.	Passed
19. Cross-fu	unction race conditions.	Passed
20. Safe Op usage.	en Zeppelin contracts implementation ar	nd Passed
21. Fallback	k function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

 The function excludeMultipleAccountsFromFees() uses the loop to exclude multiple accounts from fees. Function will be aborted with OUT_OF_GAS exception if there will be a long addresses list.

Recommendation:

Be careful about accounts array length.

Notes:

 Owner can change dividend tracker that could be not audited and some functions may work in different ways.

Owner privileges (In the period when the owner is not renounced)

- Owner can change swapTokensAtAmount.
- Owner can enable and disable SwapAndLiquify.
- Owner can change marketing wallet.
- Owner can change max buy and sell transaction amounts and fees.
- Owner can change max wallet token number.
- Owner can change dividendTracker.
- Owner can change dividend rewards and marketing fees.
- Owner can change Uniswap router.
- Owner can exclude from maxHold and maxTX
- Owner can exclude from the fees.
- Owner can change gas for processing.
- Owner can update claimWait value.
- Owner can change ethMultiplier.

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

