Audit Report for $\boldsymbol{D}\boldsymbol{A}\boldsymbol{D}\boldsymbol{A}$

Date: 23 January 2024 Audit result: **Fail.**

Token Address: 0x490bE8605051c4876e4A94910a941e3549801D74

Name: DADA

Symbol: DADA

Decimals: 9

Network: Binance Smart Chain

Token Type: BEP-20

Owner: 0x08b52556eF45eD6E5F43e7e1D61A9C62592E11ed

Deployer: 0x08b52556eF45eD6E5F43e7e1D61A9C62592E11ed

Token Supply: 4206900000000000000

Checksum: AEde641126e217b2b455d49e77fc41223

Testnet:

 $\underline{https://testnet.bscscan.com/address/0xf4c423970847161454078c545f97c0c3be7f33a8\#code}$

Token Overview:

Buy Fee: 40-100%

Sell Fee: 40-100%

Transfer Fee: 100%

Fee Privilege: Owner

Ownership: Owned

Minting: None

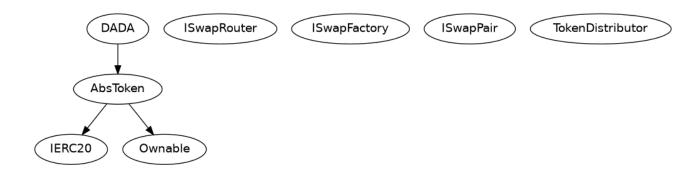
Max Tx: Yes

Blacklist: No

Other Privileges:

- -Whitelist to transfer without enabling trades
- Enabling trades

Inheritance Tree



Static Analysis

A static analysis of the code was performed using Slither. No issues were found.

```
INFO:Detectors:
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) uses arbitrary from in transferFrom: USDT.transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#301)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#arbitrary-from-in-transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#301)
INFO:DetectorSorFund(uint256) (DADA.sol#504-551) ignores return value by USDT transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#303)
AbsToken.seapTokenForFund(uint256) (DADA.sol#804-551) ignores return value by USDT transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#303)
AbsToken.seapTokenForFund(uint256) (DADA.sol#804-574) ignores return value by USDT transferFrom(tokenDistributor,address,uint256) (DADA.sol#804-574) ignores return value by USDT transferFrom(tokenDistributor,address,adeux)
AbsToken.seapTokenForFund(uint256) (DADA.sol#804-674) ignores return value by USDT transferFrom(tokenDistributor)
AbsToken.seapTokenForFund(uint256) (DADA.sol#804-6740) ignores return value by USDT transferFrom(tokenDistributor)
AbsToken.seapTokenForFund(uint256) (DADA.sol#804-6740) ignores return value by USDT transferFrom(tokenDistributor)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-transfer
INFO:Detectors:
AbsToken.stokenTransfer(address,address,address,uint256,bool,bool,bool) (DADA.sol#410-592) performs a multiplication on the result of a division:
- fundAmount.scope_d = tAmount * (_selfundfee* +_selfundfee* +_selfun
```

```
INFO:Detectors:
AbsToken.transfer(address, address, uint256).takeFee (DADA.sol#287) is a local variable never initialized
AbsToken.transfer(address, address, uint256, bool, b
```

```
INFO:Detectors:

AbsToken.addHolder(address) (DADA.sol#698-710) uses assembly

INLIME ASM (DADA.sol#702)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage

INFO:Detectors:

AbsToken._transfer(address, address, uint256, Dool, bool, bool) (DADA.sol#219-355) has a high cyclomatic complexity (17).

AbsToken._transfer(address, address, uint256, bool, bool, bool) (DADA.sol#210-502) has a high cyclomatic complexity (22).

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cyclomatic-complexity

INFO:Detectors:

Variable AbsToken._remardList (DADA.sol#117) is not in mixedCase

Variable AbsToken._buyDestroyFee (DADA.sol#113) is not in mixedCase

Variable AbsToken._buyDestroyFee (DADA.sol#131) is not in mixedCase

Variable AbsToken._buyDestroyFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._buyDeFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._buyDeFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._buyDeFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._sol#DebtstroyFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._transferFee (DADA.sol#133) is not in mixedCase

Variable AbsToken._transferFee (DADA.sol#135) is not in mixedCase

Variable AbsToken._transferFee (DADA.
```

Functional Tests Router (PCS V2):

1- Approve (passed):

https://testnet.bscscan.com/tx/0xba78524e5271d24cf93b645918f869e6b643b751f3d4932c15dfadd1 59dcd256

2- Set Buy Fee (passed):

 $\frac{\text{https://testnet.bscscan.com/tx/0xc16f95121fcb934169b7599dd7cfad2aa119ecd1a05d0493c84a5ed2}{8b171073}$

3- (passed):

 $\underline{https://testnet.bscscan.com/tx/0xfbcfa402b99670b6fef761b6c3a16e621787c1300cf020f346fa043ba0d584e8}$

4- Trading Status (passed):

https://testnet.bscscan.com/tx/0x164749bcbdcb495e0970ef64a92930d831c2e9af9dc6897ed1a0427161a605cf

5-Clear Stuck Balance (passed):

 $\frac{https://testnet.bscscan.com/tx/0xffd3bf5d598e2346633b57bd97b1988ac7c737b75b77f9ccf4f735fe2}{f1db9aa}$

Ownership Privileges:

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can set Fund/Reward/Receive addresses.
- The owner can set the Buy/Sell/Transfer fee to more than 100%.
- The owner can start trading.
- The owner whitelist addresses.
- The owner can start DADA.
- The owner can set the Reward list address.
- The owner can set a swap pair list address.
- The owner can set a limit amount.
- The owner can set the Tx limit amount.
- The owner can set the min total.
- The owner can set reward conditions.
- The owner can set holder conditions.
- The owner can exclude the holder's address.
- The owner can set the LPReceiver/AddLP/RemoveLP fee to more than 100%.

Findings:

Critical: 0 High: 4 Medium: 0 Low: 2

Informational & Optimizations: 1

Centralization – **Enabling Trades**

Severity: High

Function: startTrade

Status: Open Overview:

The **startTrade** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function startTrade() external onlyOwner {
    require(0 == startTradeBlock, "trading");
    startTradeBlock = block.number;
}
```

Suggestion:

To reduce centralization and potential manipulation, consider one of the following approaches:

- 1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.
- 2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can provide investors with more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.

Centralization – The owner can lock the token.

Severity: High

Function: setLimitAmount, setTxLimitAmount, setHolderRewardCondition and

SetHolderCondition.

Status: Open Overview:

In this setLimitAmount, setTxLimitAmount, setHolderRewardCondition and SetHolderCondition.

```
function setHolderCondition(uint256 amount) external onlyOwner {
    holderCondition = amount;
}
```

Suggestion:

It is recommended that there be a required check for zero address.

Centralization – Buy, Sell and Transfer Fees.

Severity: High

Function: setBuyFee, setSellFee and setTransferFee

Status: Open Overview:

The owner can set the buy and sell fees up to 100%, which is not recommended.

```
function setBuyFee(
        uint256 buyDestroyFee, uint256 buyFundFee, uint256 buyRewardFee,
       uint256 lpDividendFee, uint256 lpFee
    ) external onlyOwner {
       _buyDestroyFee = buyDestroyFee;
       _buyFundFee = buyFundFee;
       _buyRewardFee = buyRewardFee;
       _buyLPDividendFee = lpDividendFee;
       _buyLPFee = lpFee;
function setSellFee(
       uint256 sellDestroyFee, uint256 sellFundFee, uint256 sellRewardFee,
       uint256 lpDividendFee, uint256 lpFee
    ) external onlyOwner {
       _sellDestroyFee = sellDestroyFee;
       _sellFundFee = sellFundFee;
       _sellRewardFee = sellRewardFee;
       _sellLPDividendFee = lpDividendFee;
       _sellLPFee = lpFee;
function setTransferFee(uint256 fee) external onlyOwner {
       _transferFee = fee;
```

Suggestion:

It is recommended that no fees in the contract should be more than 25% of the contract.

Centralization – Lp, Add and Remove LPFees.

Severity: High

Function: setLPFeeReceiver, setAddLPFee and setRemoveLPFee

Status: Open Overview:

The owner can set the buy and sell fees up to 100%, which is not recommended.

Suggestion:

It is recommended that no fees in the contract should be more than 25% of the contract.

Centralization – **Missing Events**

Severity: Low

Subject: Missing Events

Status: Open Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function setFundAddress(address addr) external onlyOwner {
        fundAddress = addr;
        _feeWhiteList[addr] = true;
   }
function setRewardAddress(address addr) external onlyOwner {
        rewardAddress = addr;
        _feeWhiteList[addr] = true;
   }
function setReceiveAddress(address addr) external onlyOwner {
        _receiveAddress = addr;
        _feeWhiteList[addr] = true;
   }
function setBuyFee(
        uint256 buyDestroyFee, uint256 buyFundFee, uint256 buyRewardFee,
        uint256 lpDividendFee, uint256 lpFee
```

```
) external onlyOwner {
        _buyDestroyFee = buyDestroyFee;
        _buyFundFee = buyFundFee;
        _buyRewardFee = buyRewardFee;
        _buyLPDividendFee = lpDividendFee;
        _buyLPFee = lpFee;
function setSellFee(
        uint256 sellDestroyFee, uint256 sellFundFee, uint256 sellRewardFee,
        uint256 lpDividendFee, uint256 lpFee
    ) external onlyOwner {
       _sellDestroyFee = sellDestroyFee;
        _sellFundFee = sellFundFee;
        _sellRewardFee = sellRewardFee;
        _sellLPDividendFee = lpDividendFee;
        _sellLPFee = lpFee;
function setTransferFee(uint256 fee) external onlyOwner {
        _transferFee = fee;
function startDADA() external onlyOwner {
        require(0 == startDADABlock, "startDADA");
        startDADABlock = block.number;
function startTrade() external onlyOwner {
        require(0 == startTradeBlock, "trading");
        startTradeBlock = block.number;
function setDADA(address addr, bool enable) external onlyOwner {
        _DADA[addr] = enable;
function batchSetDADA(address [] memory addr, bool enable) external onlyOwner {
        for (uint i = 0; i < addr.length; i++) {</pre>
            DADA[addr[i]] = enable;
function setSwapPairList(address addr, bool enable) external onlyOwner {
       _swapPairList[addr] = enable;
```

Centralization – Missing Zero Address

Severity: Low Status: Open Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

Suggestion:

It is suggested that the address should not be zero or dead.

Optimization

Severity: Informational

Subject: Old Pragma Solidity version

Status: Open Overview:

It is considered best practice to pick the latest compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

```
pragma solidity ^0.8.18;
```