

Smart Contract Solidity Audit

Audit Details:

Audited project: Dhahab Sports (DHS)

Deployer Address: 0x56f9E72C03b6c324c0A703F11a3a5aB3f37E126c

Blockchain: Binance Smart Chain

Audit

This document may contain confidential information about IT systems and the intellectual property of the Customer as well as information about potential vulnerabilities and methods of their exploitation. The report containing confidential information can be used internally by the Customer, or it can be disclosed publicly after all vulnerabilities are fixed - upon a decision of the Customer.

Introduction

Solidity Audit (Consultant) was contracted by Dhahab Sports (Customer) to conduct a Smart Contract Code Review and Security Analysis. This report presents the findings of the security assessment of Customer's smart contract. Scope The scope of the project is main net smart contracts that can be found on Polyscan:

https://bscscan.com/token/0x56f9E72C03b6c324c0A703F11a3a5aB3f37E126c

We have scanned this smart contract for commonly known and more specific vulnerabilities. List of the commonly known vulnerabilities that are considered:

Category	Check Item
Code review	 Reentrancy
	 Ownership Takeover
	 Timestamp Dependence
	Gas Limit and Loops
	 DoS with (Unexpected) Throw
	 DoS with Block Gas Limit
	Transaction-Ordering Dependence
	 Style guide violation
	 Costly Loop
	 ERC20 API violation
	 Unchecked external call
	 Unchecked math
	 Unsafe type inference
	 Implicit visibility level
	 Deployment Consistency
	 Repository Consistency
	 Data Consistency

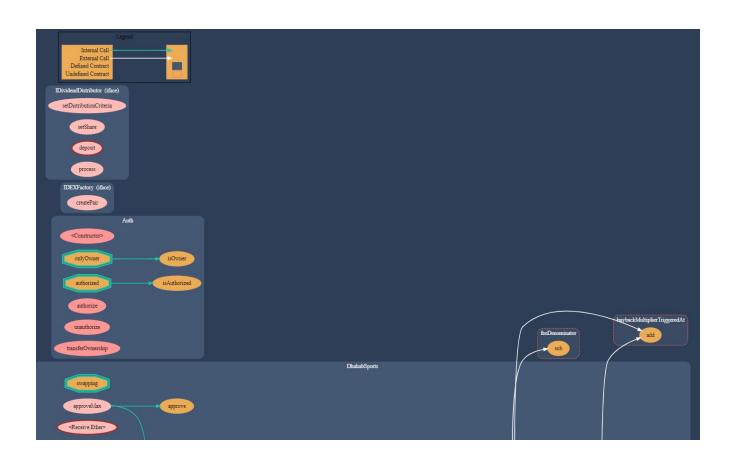
Functional review	 Business Logics Review
	Functionality Checks
	Access Control & Authorization
	 Escrow manipulation
	 Token Supply manipulation
	 Assets integrity
	 User Balances manipulation
	Kill-Switch Mechanism
	Operation Trails & Event Generation

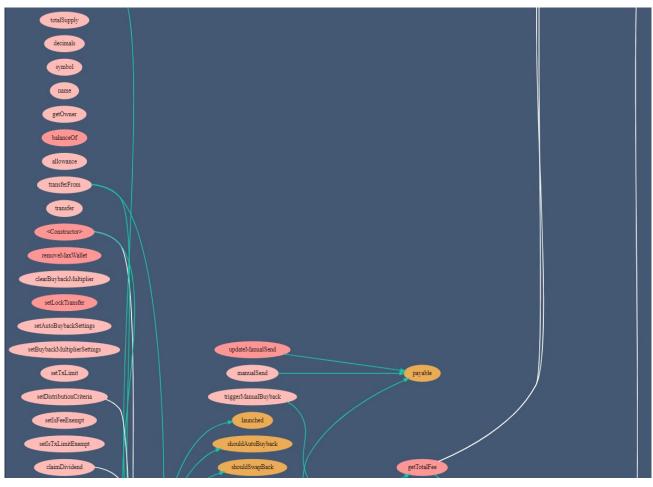
Our team performed an analysis of code functionality, manual audit, and automated checks with Mythril and Slither. All issues found during automated analysis were manually reviewed, and important vulnerabilities are presented in the Audit overview section. A general overview is presented in AS-IS section, and all found issues can be found in the Audit overview section.

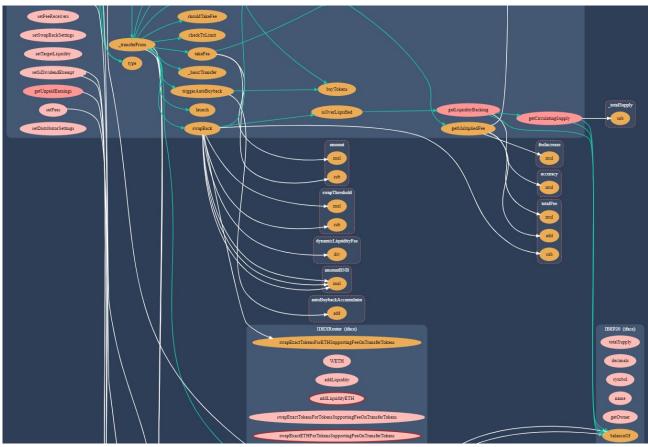
Security engineers found 2 medium, 1 informational issue during the audit.

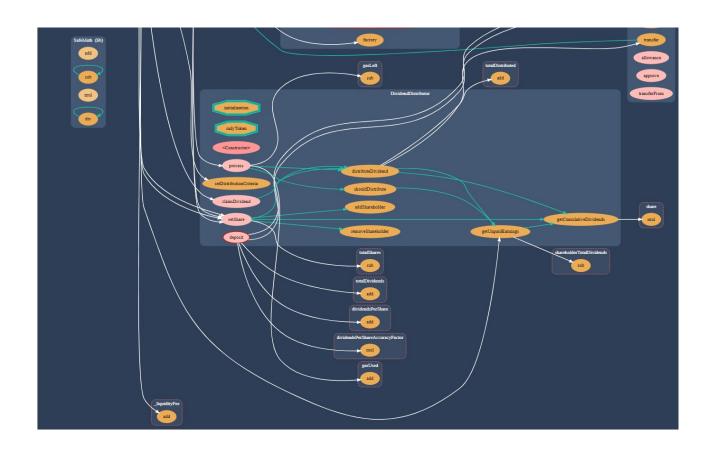
Notice: the audit scope is limited and not include all files in the repository. Though, reviewed contracts are secure, we may not guarantee secureness of contracts that are not in the scope.

ANALYSIS, GRAPHS AND UML DIAGRAM









INHERITANCE



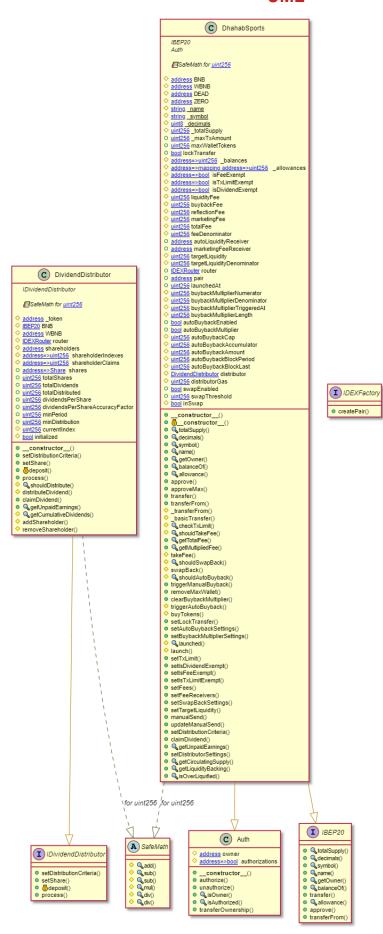
FUNCTION SIGNATURE

```
Function Signature
Sighash
771602f7 =>
             add(uint256,uint256)
b67d77c5 =>
            sub(uint256,uint256)
e31bdc0a =>
            sub(uint256,uint256,string)
c8a4ac9c => mul(uint256,uint256)
a391c15b =>
            div(uint256,uint256)
b745d336 => div(uint256,uint256,string)
18160ddd => totalSupply()
313ce567 => decimals()
95d89b41 => symbol()
06fdde03
         => name()
893d20e8
             getOwner()
         =>
70a08231
         => balanceOf(address)
a9059cbb => transfer(address,uint256)
dd62ed3e => allowance(address,address)
095ea7b3 => approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
b6a5d7de =>
             authorize(address)
f0b37c04 => unauthorize(address)
2f54bf6e => isOwner(address)
fe9fbb80 => isAuthorized(address)
f2fde38b => transferOwnership(address)
c9c65396 => createPair(address,address)
c45a0155 => factory()
ad5c4648 => WETH()
e8e33700 =>
addLiquidity(address,address,uint256,uint256,uint256,uint256,ad
dress,uint256)
f305d719 =>
             addLiquidityETH(address,uint256,uint256,uint256,ad
dress,uint256)
5c11d795 =>
swapExactTokensForTokensSupportingFeeOnTransferTokens(uint256,uint25
6,address[],address,uint256)
b6f9de95 =>
swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[]
,address,uint256)
```

```
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,a
ddress[],address,uint256)
2d48e896 => setDistributionCriteria(uint256,uint256)
14b6ca96 =>
             setShare(address, uint256)
d0e30db0 =>
             deposit()
ffb2c479 => process(uint256)
8c21cd52 => shouldDistribute(address)
5319504a => distributeDividend(address)
15f7e05e =>
             claimDividend(address)
28fd3198
             getUnpaidEarnings(address)
e68af3ac
             getCumulativeDividends(uint256)
db29fe12
            addShareholder(address)
         =>
9babdad6 =>
             removeShareholder(address)
571ac8b0 =>
            approveMax(address)
cb712535 =>
             transferFrom(address,address,uint256)
f0774e71 => basicTransfer(address,address,uint256)
4afa518a => checkTxLimit(address,uint256)
e7c44c69 =>
            shouldTakeFee(address)
f1f3bca3
             getTotalFee(bool)
d806d12f
         => getMultipliedFee()
             takeFee(address,address,uint256)
20cb7bce
0d5c6cea
            shouldSwapBack()
         =>
6ac5eeee =>
            swapBack()
             shouldAutoBuyback()
4d4e6fe5 =>
82334b94 =>
             triggerManualBuyback(uint256,bool)
dc07b617
             removeMaxWallet()
             clearBuybackMultiplier()
b210b06d
5cd44665 =>
             triggerAutoBuyback()
c625e9b1 =>
            buyTokens(uint256,address)
c6729f26 =>
            setLockTransfer(bool)
2f5620d1 =>
setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)
2375ce40 => setBuybackMultiplierSettings(uint256,uint256,uint256)
8091f3bf => launched()
01339c21 => launch()
5c85974f
            setTxLimit(uint256)
f708a64f
             setIsDividendExempt(address,bool)
658d4b7f
             setIsFeeExempt(address,bool)
f84ba65d
             setIsTxLimitExempt(address,bool)
04a66b48 => setFees(uint256,uint256,uint256,uint256,uint256)
a4b45c00 => setFeeReceivers(address,address)
df20fd49 => setSwapBackSettings(bool,uint256)
```

201e7991	=>	<pre>setTargetLiquidity(uint256,uint256)</pre>
f4293890	=>	<pre>manualSend()</pre>
84134c1f	=>	updateManualSend()
f0fc6bca	=>	<pre>claimDividend()</pre>
9d1944f5	=>	<pre>setDistributorSettings(uint256)</pre>
2b112e49	=>	<pre>getCirculatingSupply()</pre>
d51ed1c8	=>	<pre>getLiquidityBacking(uint256)</pre>
1161ae39	=>	isOverLiquified(uint256,uint256)

UML



| IDEXRouter

| Q factory() | Q VIETH() |

DESCRIPTION REPORT

Files Description Table

File Name	SHA-1 Hash

Contracts Description Table

Contract	Type	Bases	
:: :	:	::	:
: :	:		
L	**Function Name**	**Visibility**	**Mutabi
lity** **Mo	odifiers**		
SafeMath	Library		
^L add Int	cernal 🚹		
^L sub Int	cernal 🚹		
<u> </u>	cernal 🚹		
·	cernal 🚹		
<u> </u>	cernal 🚹		
^L div Int	ternal 🚹		
	Interface		
L totalSupp		NO	
L decimals	External NO	<u> </u>	
^L symbol	External NO		
	ternal NO		
L getOwner	External NO	<u> </u>	
L balanceOf			
^L transfer		NON	
L allowance		<u> </u>	
L approve			
^L transferF	From External (NO	
 Auth	nplementation		
L <construc< td=""><td></td><td> NO</td><td></td></construc<>		NO	
L authorize	<u></u> <u>-</u> <u>-</u>	onlyOwner	
	<u> </u>	onlyOwner	
L isOwner	Public NO		

^L isAuthorized Public NO
L transferOwnership Public 🎚 🔘 onlyOwner
IDEXFactory Interface
L createPair External [🔘 NO[
IDEXRouter Interface
L factory External NO
L WETH External NO
L addLiquidity External
L addLiquidityETH External @ NO
L swapExactTokensForTokensSupportingFeeOnTransferTokens Exter-
nal NO
L swapExactETHForTokensSupportingFeeOnTransferTokens External
L swapExactTokensForETHSupportingFeeOnTransferTokens External
IDividendDistributor Interface
L setDistributionCriteria External
L setShare External NO
L deposit External @ NO
L process External
DividendDistributor Implementation IDividendDistributor
<u> </u>
Constructor> Public NO
L setDistributionCriteria External onlyToken
L setShare External 🔘 onlyToken
L deposit External @ onlyToken
process External onlyToken
L shouldDistribute Internal 🚹
distributeDividend Internal 🚹 🔘
ClaimDividend External OnlyToken
DhahabSports Implementation IBEP20. Auth
L addShareholder Internal 🚹 🔘

```
svmbol | External |
    name | External
    getOwner
             External
              Public
    balanceOf
                          NO
    allowance | External
    approve | Public |
    approveMax | External
 L | transfer | External
    transferFrom | External
    transferFrom | Internal f
    basicTransfer | Internal f
 L | getTotalFee | Public | |
L | getMultipliedFee | Public | |
 📘 | takeFee | Internal 🚹 |
 📘 | shouldSwapBack | Internal 🔒
 L | swapBack | Internal 🚹 | 🔘
 📘 | shouldAutoBuyback | Internal 🚹 |
 L | triggerManualBuyback | External |
                                  l authorized |
 L | removeMaxWallet | Public | |
                                onlyOwner
 👢 | triggerAutoBuyback | Internal 🚹 | 🔘
 L | buyTokens | Internal 🚹 | 🔘 | swapping |
 L | setLockTransfer | Public | | 🔘 | onlyOwner |
 L | setBuybackMultiplierSettings | External 🖟 | 🔘 | authorized
| <sup>L</sup> | launched | Internal 🚹 |
 📕 | launch | Internal 🚹 | 🔘
└ | setTxLimit | External 🎚 | 🔘 | authorized |
 | authorized |
 L | setIsFeeExempt | External 🏾
                               | authorized |
 L | setIsTxLimitExempt | External
 L | setFees | External 🖟 | 🔘
                             authorized |
 L | setFeeReceivers | External
                                  | authorized |
 L | setSwapBackSettings | External
                                 l authorized |
 L | setTargetLiquidity | External
                                    | authorized |
 L | manualSend | External 📗
                            | authorized |
 L | updateManualSend | Public 🖟 | 🔘 | onlyOwner |
 L | setDistributionCriteria | External 🏿 | 🔘 | authorized |
 L | claimDividend | External 🛛 | 🔘 | NO 📗
```

L	getUnpaidEarnings Public 🌡 NO🖟
L	setDistributorSettings External 🏿 🌑 authorized
L	getCirculatingSupply Public [NO[
L	getLiquidityBacking Public 🎚 NO🖟
L	isOverLiquified Public 🏿 NO🖟

Legend

Symbol	Meaning		
::			
	Function ca	n modify	state
	Function is	payable	

Solidity Audit Disclaimer

The smart contracts given for audit have been analyzed in accordance with the best industry practices at the date of this report, in relation to cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report (Source Code); the Source Code compilation, deployment, and functionality (performing the intended functions). The audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only - we recommend proceeding with several independent audits and a public bug bounty program to ensure security of smart contracts.

Technical Disclaimer

Smart contracts are deployed and executed on blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. Thus, the audit can't guarantee the explicit security of the audited smart contracts.