RugFreeCoins Audit

Auto BUSD Audit

Smart Contract Security Audit

October 07, 2021

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Audit details

Audited project

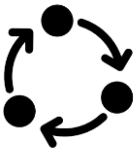
AutoBUSD Token

Contract Address

0xf83849122f769a0a7386df183e633607c890f6c0

Client contact

AutoBUSD Team



Blockchain

Binance smart chain

Project website

https://autobusd.com/

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 disclaimer below – please make sure to read it in full.

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Background

Rugfreecoins was commissioned by AutoBUSD to perform an audit of the smart contract.

https://bscscan.com/address/0xf83849122f769a0a7386df183e633607c890f6c0

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long term sustainability and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

About the project

AUTOBUSD is a new Cryptocurrency based on the Binance Smart Chain Blockchain that will be distributed through channel partners and made available to everyone, anytime, anywhere. This is the core of our business, and Forex Market will be at the center of the strategy. The application will be a web-based ICO Launch, this Blockchain application will be built using the Binance Smart Chain platform with BEP - 20 as standards.

AUTOBUSD is the First Cryptocurrency to revolutionize manuals to be robots in the world of stocks, a synergy between the reach of stock auto robot program developers and the fast and limitless nature of Blockchain technology. This is a digital asset designed to function as a medium of exchange for the stock industry without any restrictions.

Vision

The goal is not to compete with existing e-cash cash, but to participate cooperatively in the e-cash cash ecosystem as a whole. This is a complementary solution; a tool that will increasingly take users to e-cash cash, Cryptocurrency powered solutions and e-cash wallets.

Goal

It is to be one of the cornerstones of financial inclusion efforts in the 21st century and work with actors who will benefit every month without having to do anything just to invest part of the money.

Mission

AUTOBUSD is a transferable peer-to-peer digital e-cash that is completely safe for users to invest in. It will help investors make the right investment choices and eliminate unnecessary intermediary agents and fees.

Tokenomics

No fees

The owner - Alfian B. Y

Country: Indonesia

Occupation: Indonesia ARMY

Roadmap

Quarter 1 2021

Blockchain servers settled in the USA

Quarter 2 2021

Launched White paper version 1 Regd. Companies in Thailand, Malaysia & Cambodia

Quarter 3 2021

Pre-Sale ends @ $ 1 ICO Phase 1 begins

Quarter 4 2021

Listing of ABS on International Exchanges @ $ 10.

Quarter 1 2022

Considering Accounts viv-s-vis ongoing global projects 31

Quarter 2 2022

Upgrading Blockchain & Launch Mobile App.

Quarter 3 2022

Generating Partnerships & Merchant Affiliation

Quarter 4 2022

Mergers, Acquisitions and Global Amalgamations

Quarter 1 2023

Blockchain Phase X, Beta process & ABS Lounge

Quarter 2 2023

Move from Ether to our own DLT network. Test net + Main net.

Quarter 3 2023

Upgrading All Servers and Technological Mechanism globally

Quarter 4 2023

Considering Accounts viv-s-vis ongoing global projects

Target market and the concept

Target market

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part with the future plans of the Auto BUSD token.
- Anyone who's interested in making financial transactions with any other party using Auto BUSD as the currency.
- AUTOBUSD will guide and eventually be the technology that gives both experienced and novice users a peek into the future of Real estate investments.

Core concept

Customers can buy AUTOBUSD using Fiat currencies such as USD and they can also exchange AUTOBUSD using Ethers or Bitcoins. The User will be able to sell/purchase/trade the AUTOBUSD on recognized Exchanges.

You can use AUTOBUSD to purchase real estate properties, online shopping, insurance, utility bill payments, etc. in times to come adhering to the projected roadmap. It utilizes a value transfer protocol to achieve the transferring of payment on peer-to-peer basis and to build up a decentralized application platform, which brings Blockchain technology into the Real Estate and Investments industry. In addition to that, the payment industry backs the payment ecosystem to fulfill the demands of Customers & merchant. There are many payment gateways/merchants are in the industry of Blockchain. However, the service of the AUTOBUSD payment is totally different, unique, secure & better with extra facilities.

Funds Usage

20% of the funds will be used to build the AUTOBUSD platform and perform upgrades to the system, which includes team recruiting, training, and the development budget.

10% will be kept in reserve to cope with any emergency or unexpected situation that might come up.

Objectives

Currently the platform enables selling and buying of cryptocurrencies using bank transfers and will soon make selling and buying an easy process all over India.

AUTOBUSD ensures the security of users' funds via cold storage, and has very strict rules when selecting sellers, providing buyers with the confidence they want in real estate. During the first

phase of the rollout, AUTOBUSD is integrated with the existing platform of Binance Smart Chain, which has been proven to be a reliable and stable base.

The team plan to evaluate migration of the codebase to the Binance Smart Chain platform since the Binance Smart Chain platform is maturing faster. They believe that AUTOBUSD can benefit from the many features Binance Smart Chain can offer. The ultimate objective is to create a decentralized exchange for the people owned by the person, which also provides profit to the people; because they believe their profit is their investors profit too.

Investors invested money will not be dependent upon state regulators, which are volatile and affect investments. With no middle agents, we help you save your investments

Implementation – ICO

AUTOBUSD has an advantage in that our ICO will actually be selling the same Cryptocurrency that we will be marketing. Furthermore, being based in India and established in Singapore, they benefit from a legal environment greatly favorable to token sales. There has been a solid interest around cryptocurrencies for years in India, but the number of India-based companies doing ICOs here is surprisingly low. They want to tap into this interest in Cryptocurrency and participate responsibly in the ecosystem in order to build a successful example for other to follow. They plan to lead our fundraising activity according to the following 3 phases.

- Pre-ICO
- ICO period
- Post-ICO

Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	10/10
3	Information quality	10/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	10/10
7	Impact on the business	10/10
8	Preparing for the future	10/10
Total Points		**9.63/10**

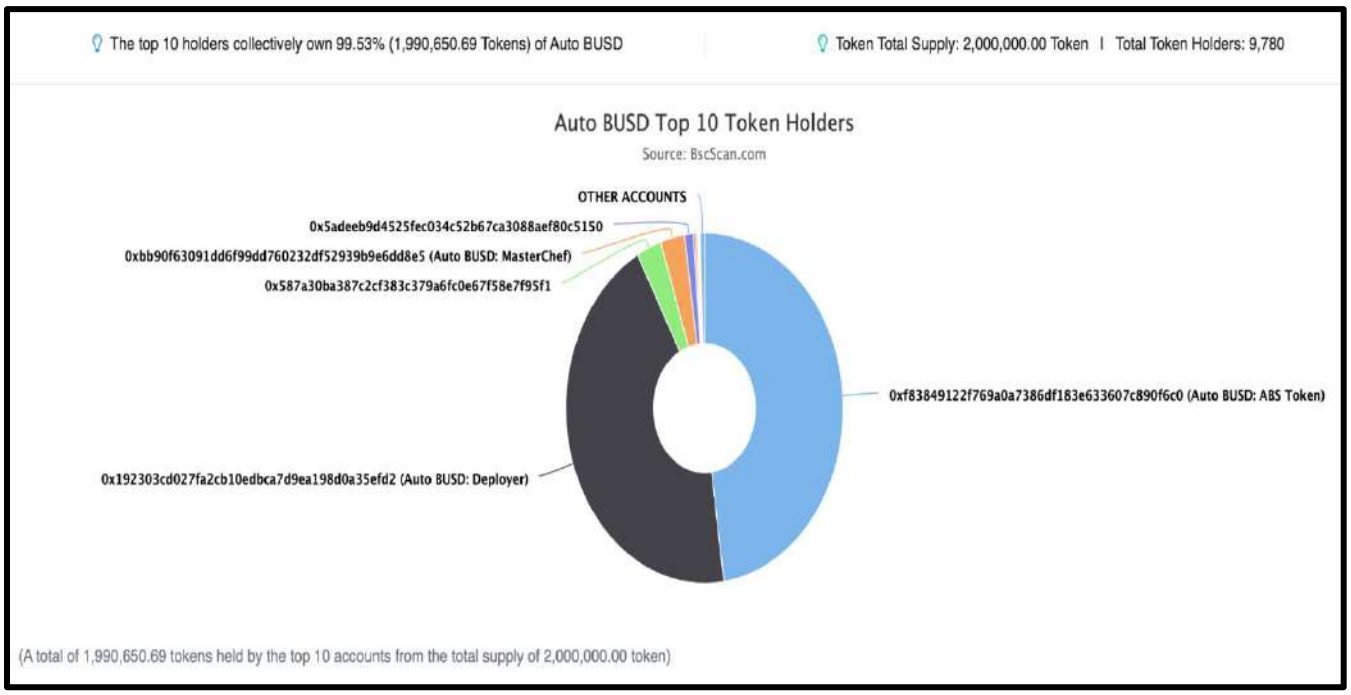
Contract details

Token contract details for 07th October 2021

Contract name	Auto BUSD
Contract address	0xf83849122f769a0a7386df183e633607c890f6c0
Token supply	2,000,000
Token ticker	ABS
Decimals	18
Token holders	9,780
Transaction count	14,645
Contract deployer address	0x192303CD027fa2cb10EDBCa7d9eA198d0A35EFd2
Contract's current owner address	0x192303cd027fa2cb10edbca7d9ea198d0a35efd2

Top token holders

Top 10 Token Holders



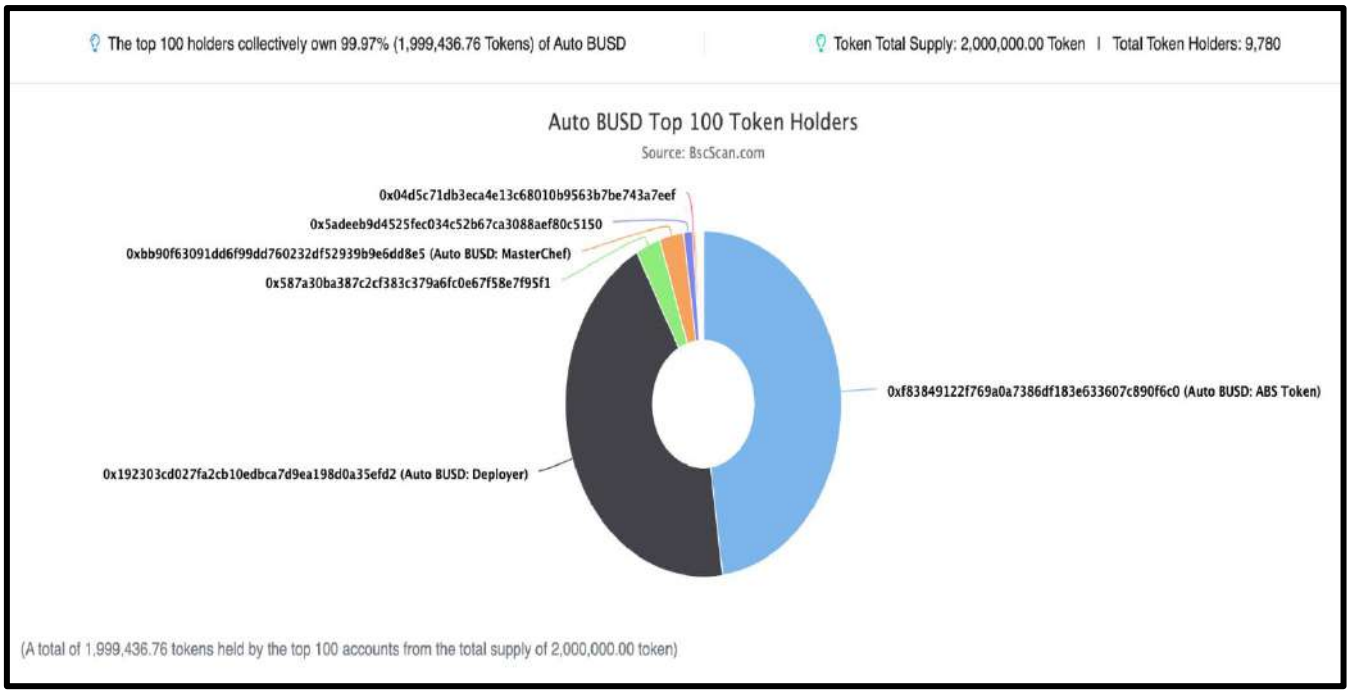
Rank	Address	Quantity (Token)	Percentage
1	Auto BUSD: ABS Token	955,121.0188369999998746	47.7561%
2	Auto BUSD: Deployer	884,771.40425	44.2386%
3	0x587a30ba387c2cf383c379a6fc0e67f58e7f95f1	57,732	2.8866%
4	Auto BUSD: MasterChef	55,641.018560073329780304	2.7821%
5	0x5adeeb9d4525fec034c52b67ca3088aef80c5150	21,017.594361478656640028	1.0509%
6	0x04d5c71db3eca4e13c68010b9563b7be743a7eef	5,000	0.2500%
7	0x313b7943f16b31abeafe6c4b4009478e02b2cc88	4,690	0.2345%
8	0x2f5289059fec9f1480f297a897a6f14a37d16de5	3,000	0.1500%
9	0xc23b064d6790895a75fbdb95aab64465a937dd46	2,293.710496790295818335	0.1147%
10	0x5493c790df4c47b4c2628a6ba7990ed249275b2c	1,383.945897890319231708	0.0692%

Token distribution

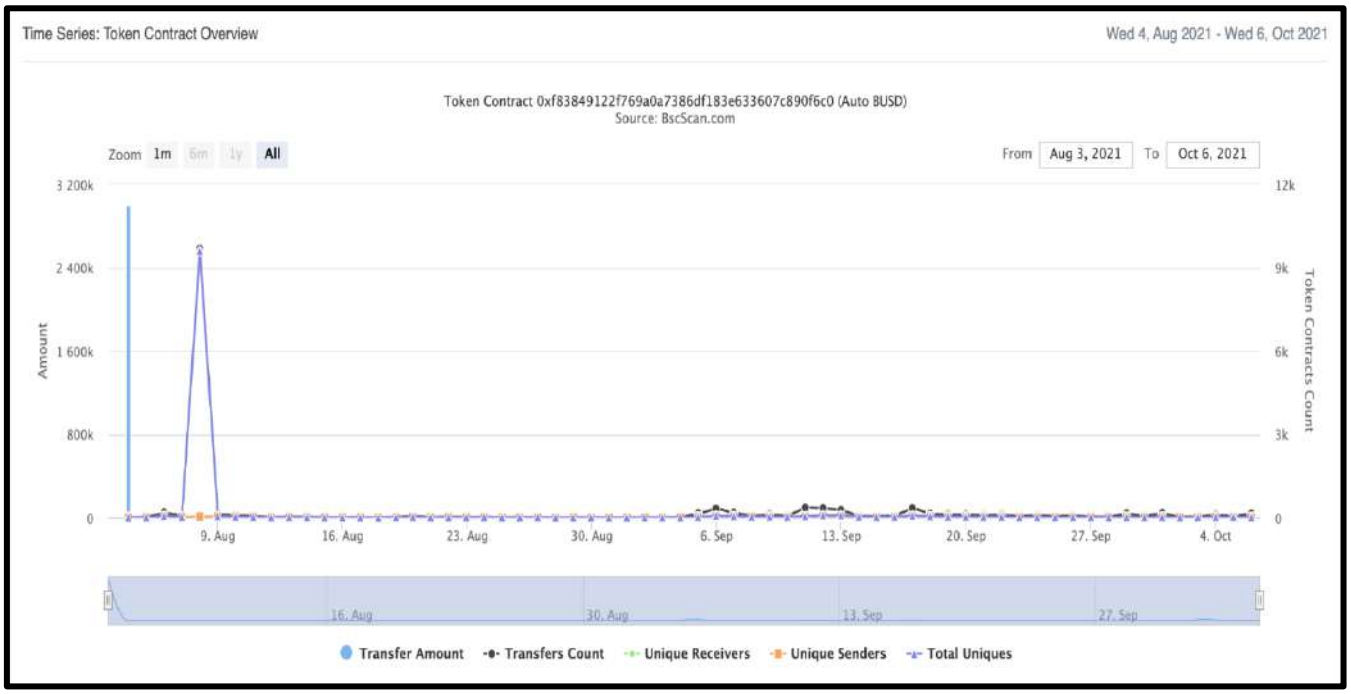
Tokens are distributed as follows:

Particulars	Percentage	Number of Coins
Total AUTOBUSDs	**100%**	**2,000,000**
Project Team Members	**9%**	180,000
Charity/Foundation	1%	20,000
Presale and ICO	50%	1,000,000
Yearwise Distribution:		
2021	2%	40,000
2022	2%	40,000
2023	3%	60,000
2024	2%	40,000
2025	3%	60,000
2026	2%	40,000
2027	2%	40,000
2028	3%	60,000
2029	4%	80,000
2030	5%	100,000
2031	4%	80,000
2032	4%	80,000
2033	4%	80,000
	Total	**2,000,000**

Top 100 Token Holders



Contract interaction details



Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		low issue
12	Fake deposit		low issue
13	Event security		pass

Contract description table

Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
SafeMath	**Library**			
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
BEP20Interface	**Implementation**			
L	totalSupply	Public ❗		NO❗
L	balanceOf	Public ❗		NO❗
L	allowance	Public ❗		NO❗
L	transfer	Public ❗	🛑	NO❗
L	approve	Public ❗	🛑	NO❗
L	transferFrom	Public ❗	🛑	NO❗

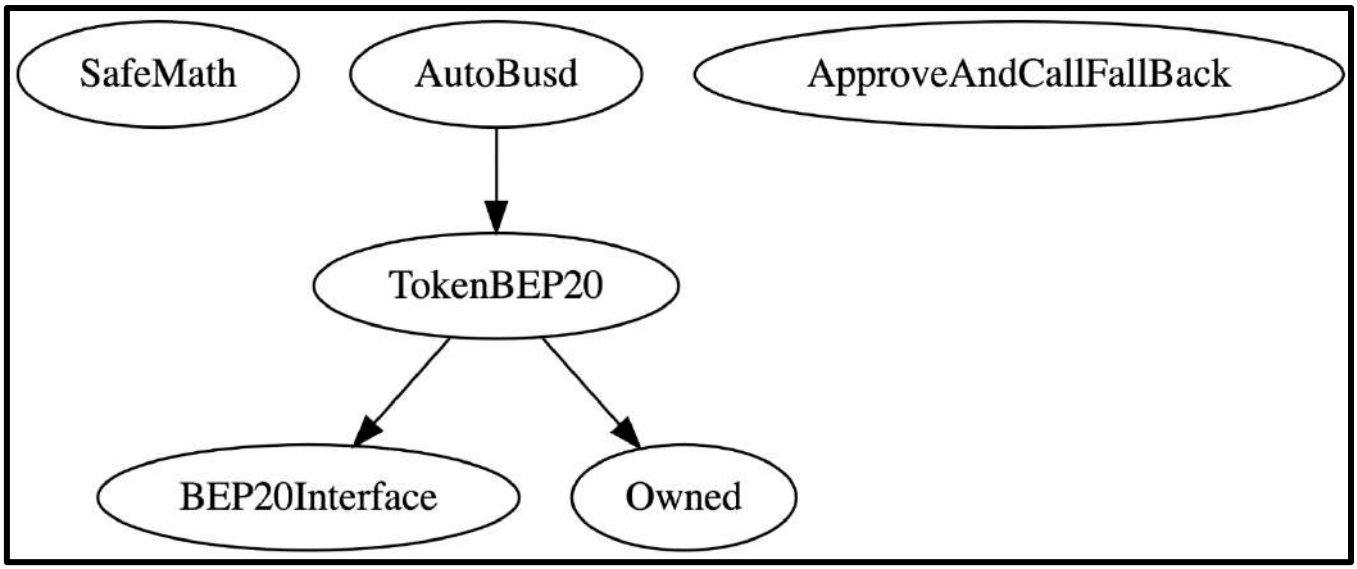
ApproveAndCallFallBack	Implementation			
└	receiveApproval	Public ❗	🔘	NO❗
Owned	**Implementation**			
└		Public ❗	🔘	NO❗
└	transferOwnership	Public ❗	🔘	onlyOwner
└	acceptOwnership	Public ❗	🔘	NO❗
TokenBEP20	**Implementation**	**BEP20Interface, Owned**		
└		Public ❗	🔘	NO❗
└	totalSupply	Public ❗		NO❗
└	balanceOf	Public ❗		NO❗
└	transfer	Public ❗	🔘	NO❗
└	approve	Public ❗	🔘	NO❗
└	transferFrom	Public ❗	🔘	NO❗
└	allowance	Public ❗		NO❗
└	approveAndCall	Public ❗	🔘	NO❗
└		External ❗	💳	NO❗

AutoBusd	Implementation	TokenBEP20		
└	getAirdrop	Public ❗	🛑	NO❗
└	tokenSale	Public ❗	💷	NO❗
└	viewAirdrop	Public ❗		NO❗
└	viewSale	Public ❗		NO❗
└	startAirdrop	Public ❗	🛑	onlyOwner
└	startSale	Public ❗	🛑	onlyOwner
└	clearETH	Public ❗	🛑	onlyOwner
└		External ❗	💷	NO❗

Legend

Symbol	Meaning
🛑	**Function can modify state**
💷	**Function is payable**

Inheritance Hierarchy



Security issue checking status

- **High severity issues**
  No medium severity issues found.

- **Medium severity issues**
  No medium severity issues found.

- **Low severity issues**

  Token vesting

  Pancake swap router has not been implemented: This token cannot add to the pancake swap, all buying, and selling are handled by the AutoBUSD exchange platform or other exchange platforms. Therefore, the owner has the right to decide the token price and set fees as per their preference.

  Fake deposit

  Since one portion of transactions are handled through the owner's platform, the owner can show fake transactions and manipulate the token price.

Owner privileges

- The owner can transfer ownership.

```
ftrace | funcSig
function transferOwnership(address _newOwner⬆) public onlyOwner {
    newOwner = _newOwner⬆;
}
```

- A new owner can accept ownership.

```
ftrace | funcSig
function acceptOwnership() public {
    require(msg.sender == newOwner);
    emit OwnershipTransferred(owner, newOwner);
    owner = newOwner;
    newOwner = address(0);
}
```

- The owner can start sending airdrops.

```
ftrace | funcSig
function startAirdrop(
    uint256 _aSBlock⬆,
    uint256 _aEBlock⬆,
    uint256 _aAmt⬆,
    uint256 _aCap⬆
) public onlyOwner {
    aSBlock = _aSBlock⬆;
    aEBlock = _aEBlock⬆;
    aAmt = _aAmt⬆;
    aCap = _aCap⬆;
    aTot = 0;
}
```

❖ The owner can enable trading.

```
ftrace | funcSig
function startSale(
    uint256 _sSBlock⬆,
    uint256 _sEBlock⬆,
    uint256 _sChunk⬆,
    uint256 _sPrice⬆,
    uint256 _sCap⬆
) public onlyOwner {
    sSBlock = _sSBlock⬆;
    sEBlock = _sEBlock⬆;
    sChunk = _sChunk⬆;
    sPrice = _sPrice⬆;
    sCap = _sCap⬆;
    sTot = 0;
}
```

❖ The owner can transfer the contract BNB balance to the owner account.

```
ftrace | funcSig
function clearETH() public onlyOwner {
    address payable _owner = msg.sender;
    _owner.transfer(address(this).balance);
}
```

Audit conclusion

While conducting the audit of the Auto BUSD smart contract, it was observed that there is nothing alarming with the code and it only contains low severity issues and taking the AutoBUSD token’s business concept and the model into consideration the audit is passed.