soken

SMART CONTRACT
SECURITY AUDIT

Shiba Inu

November, 2021

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:
- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:
- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:
- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

• Low-severity issue — less important, must be analyzed
• Medium-severity issue — important, needs to be analyzed and fixed
• High-severity issue —important, might cause vulnerabilities, must be analyzed and fixed
• Critical-severity issue —serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 30.11.2021

Contract Name: **TokenMintERC20Token**

Deployed address: **0x95aD61b0a150d79219dCF64E1E6Cc01f0B64C4cE**

Total Supply: **999,992,074,705,917**

Token Tracker: **SHIB**

Decimals: **18**

Token holders: **1,018,111**

Transactions count: **5,902,152**

Top 100 holders dominance: **80.33%**

Audit Details

Project Name: **Shiba Inu**

Language: **Solidity**

Compiler Version: **v0.5.0**
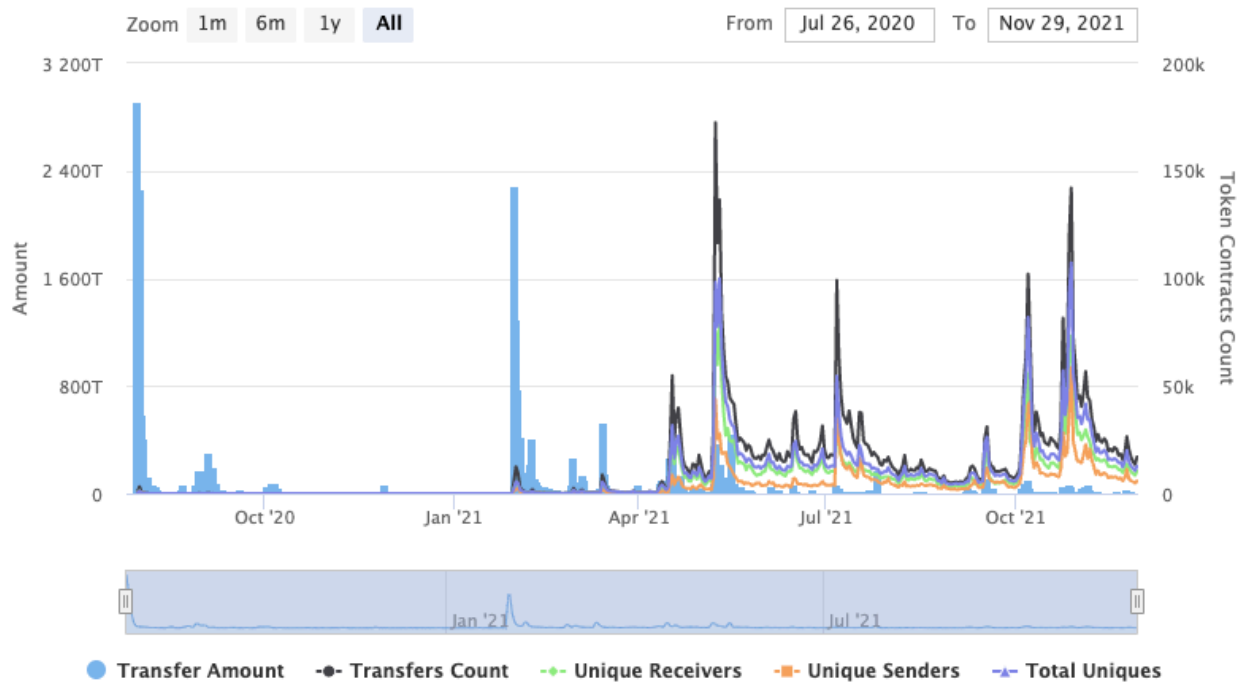
Blockchain: **Ethereal**

Social Profiles

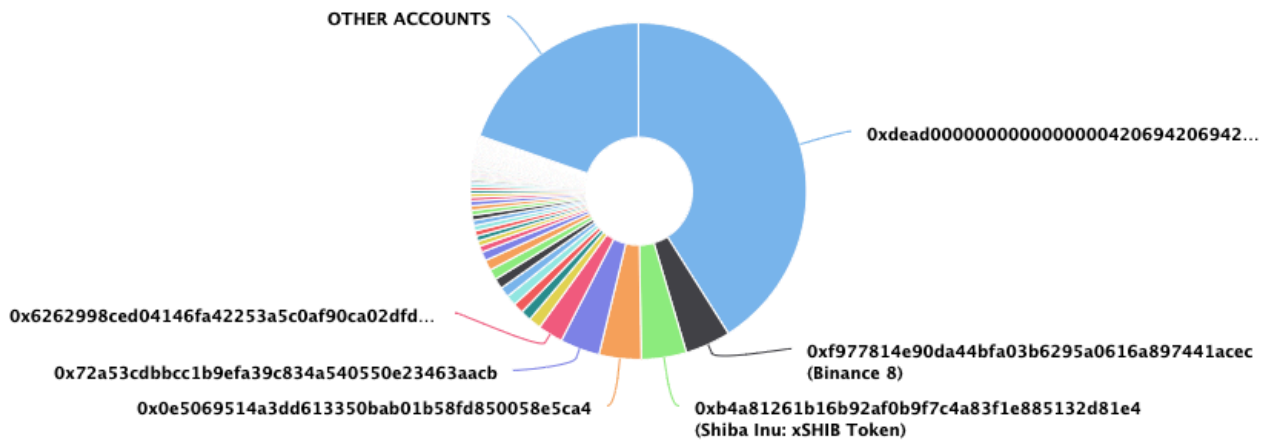Project Website: **https://shibatoken.com/index.html**

Project Twitter: **https://twitter.com/shibtoken**

Project Telegram: **https://t.me/ShibaInu_Dogecoinkiller**

Project Reddit: **https://www.reddit.com/r/SHIBArmy/**

Token Analytics

SHIB Token Distribution

OTHER ACCOUNTS

0xdead000000000000000420694206942...

0x6262998ced04146fa42253a5c0af90ca02dfd...

0x72a53cdbbcc1b9efa39c834a540550e23463aacb

0x0e5069514a3dd613350bab01b58fd850058e5ca4

0xf977814e90da44bfa03b6295a0616a897441acec
(Binance 8)

0xb4a81261b16b92af0b9f7c4a83f1e885132d81e4
(Shiba Inu: xSHIB Token)

SHIB Top Holders

Rank	Address	Quantity (Token)	Percentage
1	Black Hole: 0xdea...069	410,255,393,070,165.479066767309906263	41.0259%
2	Binance 8	43,840,556,082,612.21195164244572257	4.3841%
3	📄 Shiba Inu: xSHIB Token	43,315,926,564,377.402965572259967064	4.3316%
4	0x0e5069514a3dd613350bab01b58fd850058e5ca4	40,557,928,950,394.940165281047582466	4.0558%
5	0x72a53cdbbcc1b9efa39c834a540550e23463aacb	38,112,934,388,726.97804631	3.8113%
6	Crypto.com	24,160,682,302,022.5867766581277712742	2.4161%
7	0x66fe7081bc672837ea63d37c8b8949b43d6ca636	11,971,812,326,858.84910702	1.1972%
8	0x1406899696adb2fa7a95ea68e80d4f9c82fcdedd	10,200,003,141,759.544505130813547416	1.0200%
9	0xf28d22c8b25ff8fa961e305bba701918ddc3339a	10,000,001,252,957.153846153846153846	1.0000%
10	0xc1cae0a347db30cf2cbbd80127fe2182804f8a9e	10,000,000,317,405.10657545	1.0000%

Swap Analysis

✔   Token is sellable (not a honeypot)

✔   Buy fee is less than 5% (0%)

✔   Sell fee is less than 5% (0%)

Contract Analysis

✔   Verified contract source

✘   No prior similar token contracts

✔   Source does not contain a proxy contract

✔   Source does not contain a pausable contract

✔   Ownership renounced or source does not contain an owner contract

✔   Creator wallet contains less than 10% of token supply (0%)

✔   All other holders possess less than 5% of token supply

✔   Adequate liquidity present (1,267.95 ETH)

Contract Function Details

+ [Int] IERC20.sol
-   [Ext] totalSupply
-   [Ext] balanceOf
-   [Ext] transfer
-   [Ext] allowance
-   [Ext] approve
-   [Ext] transferFrom

+ [Lib] SafeMath
-   [Int] add
-   [Int] sub
-   [Int] mul
-   [Int] div
-   [Int] mod

+ ERC20 is IERC20
-   [Pub] totalSupply
-   [Pub] balanceOf
-   [Pub] transfer
-   [Pub] allowance
-   [Pub] approve
-   [Pub] transferFrom
-   [Pub] increaseAllowance
-   [Pub] decreaseAllowance
-   [Int] _transfer
-   [Int] _mint
-   [Int] _burn
-   [Int] _approve
-   [Int] _burnFrom

+ ERC20 is IERC20
-   [Pub] burn
-   [Pub] name
-   [Pub] symbol
-   [Pub] decimals

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Conclusion

Smart contracts are free from any low, medium, high or critical-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

Audited by soken

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