

Advanced Manual Smart Contract Audit



Project: Sodatsu

Website: https://www.sokuswap.com/



4 low-risk code issues found

Medium-Risk

0 medium-risk code issues found

High-Risk

0 high-risk code issues found

Contract Address

0xed641273b0c9dd7bc89f0cd4c3bd58770b662d63

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

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Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	Unicrypt : Token Vesting	17,000,000	76.5000%
2	0xfd73751077c2b1f871b7d12538b181e4eb80b156	4,914,420	22.1149%
3	0xff1b8770501a2ce0e0a2fc1ae3d0e13bf441ab1b	136,982.018564977420973407	0.6164%
4	0xa3ab0167a0ab940f16f633a7ef582879b7b14d0c	111,111	0.5000%
5	0xaa3d85ad9d128dfecb55424085754f6dfa643eb1	53,738.083291520321123934	0.2418%

Source Code

Coinsult was comissioned by Sodatsu to perform an audit based on the following smart contract:

https://etherscan.io/address/0xed641273b0c9dd7bc89f0cd4c3bd58770b662d63#code

Manual Code Review

In this audit report we will highlight all these issues:



4 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

The detailed report continues on the next page...

Avoid relying on block.timestamp

block.timestamp can be manipulated by miners.

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
    // approve token transfer to cover all possible scenarios
    _approve(address(this), address(uniswapV2Router), tokenAmount);

    // add the liquidity
    uniswapV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        address(0),
        block.timestamp
    );
}
```

Recommendation

Do not use block.timestamp, now or blockhash as a source of randomness

Exploit scenario

```
contract Game {
    uint reward_determining_number;
    function guessing() external{
        reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls guessing and re-orders the block containing the transaction. As a result, Eve wins the game.

Too many digits

Literals with many digits are difficult to read and review.

Recommendation

Use: Ether suffix, Time suffix, or The scientific notation

Exploit scenario

While 1_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

No zero address validation for some functions

Detect missing zero address validation.

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

Recommendation

Check that the new address is not zero.

Exploit scenario

```
contract C {

modifier onlyAdmin {
   if (msg.sender != owner) throw;
   _;
}

function updateOwner(address newOwner) onlyAdmin external {
   owner = newOwner;
}
```

Bob calls updateOwner without specifying the newOwner, soBob loses ownership of the contract.

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

Recommendation

Emit an event for critical parameter changes.

Exploit scenario

```
contract C {

modifier onlyAdmin {
   if (msg.sender != owner) throw;
   _;
}

function updateOwner(address newOwner) onlyAdmin external {
   owner = newOwner;
}
```

updateOwner() has no event, so it is difficult to track off-chain changes in the buy price.

Owner privileges

- Owner cannot set fees higher than 25%
- Owner cannot pause trading
- Owner cannot change max transaction amount
- Owner can exclude from fees
- ⚠ Owner can exclude addresses from dividend
- ♠ Owner can disable antibot
- ⚠ Owner can update claimwait (between 1 and 24 hours)
- ⚠ Owner can update minimum token balance to be eligible for dividends

Extra notes by the team

No notes

Contract Snapshot

```
contract Sodatsu_Token is ERC20, Ownable, BaseToken {
  using SafeMath for uint256;

uint256 public constant VERSION = 1;

IUniswapV2Router02 public uniswapV2Router;
  address public uniswapV2Pair;

bool private swapping;

SODATSUTOKENDividendTracker public dividendTracker;

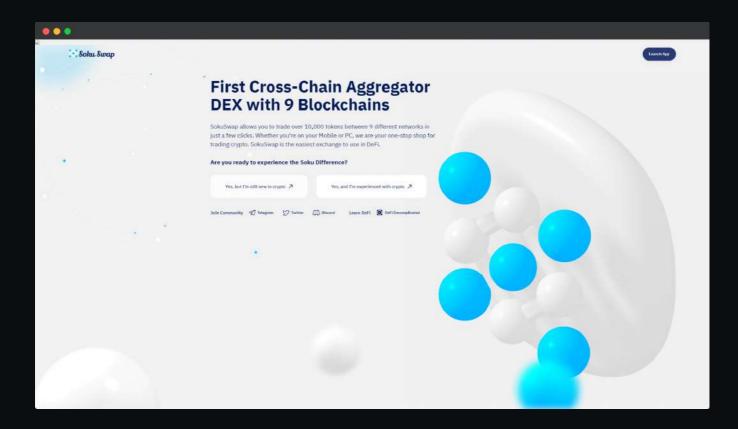
address public rewardToken;

uint256 public swapTokensAtAmount;

uint256 public tokenRewardsFee;
  uint256 public liquidityFee;
  uint256 public marketingFee;
  uint256 public totalFees;
```

Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

Project Overview



Not KYC verified by Coinsult

Sodatsu

Audited by Coinsult.net



Date: 21 August 2022

✓ Advanced Manual Smart Contract Audit