

Audit Report Alaska Token

August 2022

Type ERC20

Network DOGE

Address 0x0AE5cBdd4992344020db4F4Bc78Db6d1d73702B9

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Contract Review

| Explorer | https://explorer.dogechain.dog/address/0x0AE5cBdd499 2344020db4F4Bc78Db6d1d73702B9 |
|------------------|--|
| Optimization | 200 runs |
| Compiler Version | v0.8.13+commit.abaa5c0e |
| Contract name | Alaska Token |
| Decimals | 9 |
| Total supply | 1,000,000,000,000 |
| Symbol | ALT |

Source Files

| Filename | SHA256 |
|--------------|--|
| contract.sol | f7a345e6f65608baf344791a4f9ccafd4ce122e5ce088aee1 4bdf66b8cfe7765 |

Audit Updates

| Initial Audit | 21st August 2022 |
|---------------|------------------|
| Corrected | |

Contract Analysis

CriticalMediumMinor / InformativePass

| Severity | Code | Description | Status |
|----------|------|------------------------------------|------------|
| • | ST | Stops Transactions | Passed |
| • | OCTD | Transfers Contract's Tokens | Unresolved |
| • | OTUT | Transfers User's Tokens | Passed |
| • | ELFM | Exceeds Fees Limit | Unresolved |
| • | ULTW | Transfers Liquidity to Team Wallet | Unresolved |
| • | MT | Mints Tokens | Passed |
| • | ВТ | Burns Tokens | Unresolved |
| • | ВС | Blacklists Addresses | Unresolved |

OCTD - Transfers Contract's Tokens

| Criticality | minor |
|-------------|-------------------|
| Location | contract.sol#L461 |
| Status | Unresolved |

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the rescueToken function.

```
function rescueToken(address tokenAddress, uint256 tokens)
    public
    onlyOwner
    returns (bool success)
{
    return IERC20(tokenAddress).transfer(msg.sender, tokens);
}
```

Recommendation

ELFM - Exceeds Fees Limit

| Criticality | minor |
|-------------|-------------------|
| Location | contract.sol#L395 |
| Status | Unresolved |

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the setFee function with the value 30 in buys.

```
function setFee (uint256 _sellFeeRate, uint256 _buyFeeRate) external onlyOwner {
    require (_sellFeeRate <= 14, "Fee can't exceed 14%");
    require (_buyFeeRate <= 30, "Fee can't exceed 30%");
    sellFeeRate = _sellFeeRate;
    buyFeeRate = _buyFeeRate;
}</pre>
```

Recommendation

The contract could embody a check for the maximum acceptable value.



ULTW - Transfers Liquidity to Team Wallet

| Criticality | minor |
|-------------|-------------------|
| Location | contract.sol#L368 |
| Status | Unresolved |

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the swapToken method.

```
function swapToken() public onlyOwner {
    uint256 contractTokenBalance = balanceOf(address(this));
    bool overMinTokenBalance = contractTokenBalance >=
numTokensSellToAddToLiquidity;

    bool shouldSwapBack = (overMinTokenBalance && balanceOf(address(this)) > 0);
    if(shouldSwapBack){
        swapTokensForEth(numTokensSellToAddToLiquidity);
      }
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may volatile the token's price.



BT - Burns Tokens

| Criticality | minor |
|-------------|-------------------|
| Location | contract.sol#L402 |
| Status | Unresolved |

Description

The contract owner has the authority to burn the contract's address tokens. The owner may take advantage of it by calling the manualBurn function. As a result the contract address will lose the corresponding tokens.

```
function manualBurn(uint256 amount) external onlyOwner returns (bool) {
   return _basicTransfer(address(this), DEAD, amount);
}
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.



BC - Blacklists Addresses

| Criticality | medium |
|-------------|-------------------|
| Location | contract.sol#L297 |
| Status | Unresolved |

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the setBot function.

```
if (blacklistEnabled) {
    require (!isBot[sender] && !isBot[recipient], "Bot!");
}
```

Recommendation

Contract Diagnostics

CriticalMediumMinor / Informative

| Severity | Code | Description | Status |
|----------|------|--|------------|
| • | CO | Code Optimization | Unresolved |
| • | L01 | Public Function could be Declared External | Unresolved |
| • | L02 | State Variables could be Declared Constant | Unresolved |
| • | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| • | L05 | Unused State Variable | Unresolved |
| • | L07 | Missing Events Arithmetic | Unresolved |
| • | L11 | Unnecessary Boolean equality | Unresolved |



CO - Code Optimization

| Criticality | minor |
|-------------|--------------|
| Location | contract.sol |
| Status | Unresolved |

Description

There are code segments that are not used by the contract. Those sections could be eliminated from the contract's code base.

```
function cooldownEnabled(bool _status, uint8 _interval) public onlyOwner {
    buyCooldownEnabled = _status;
    cooldownTimerInterval = _interval;
}

function blacklistBlockEnabled(bool _status) public onlyOwner {
    enableBlacklistBlock = _status;
}
```

Recommendation

Rewrite some code segments so the runtime will be more performant.

L01 - Public Function could be Declared External

| Criticality | minor |
|-------------|--|
| Location | contract.sol#L94,101,122,368,406,418,445,450,461 |
| Status | Unresolved |

Description

Public functions that are never called by the contract should be declared external to save gas.

authorize
unauthorize
transferOwnership
swapToken
getCirculatingSupply
checkBot
cooldownEnabled
blacklistBlockEnabled
rescueToken

Recommendation

Use the external attribute for functions never called from the contract.

L02 - State Variables could be Declared Constant

| Criticality | minor |
|-------------|-------------------------------|
| Location | contract.sol#L188,189,195,210 |
| Status | Unresolved |

Description

Constant state variables should be declared constant to save gas.

DEAD
ZERO
_totalSupply
feeDenominator

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

| Criticality | minor |
|-------------|---|
| Location | contract.sol#L137,386,395,410,445,450,187,188,189,191,192,193,196 |
| Status | Unresolved |

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
WETH
_address
_sellFeeRate
_buyFeeRate
_marketingWallet
_status
_interval
DEAD
ZERO
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions.

L05 - Unused State Variable

| Criticality | minor |
|-------------|-----------------------|
| Location | contract.sol#L200,233 |
| Status | Unresolved |

Description

There are segments that contain unused state variables.

cooldown
cooldownTimer

Recommendation

Remove unused state variables.

L07 - Missing Events Arithmetic

| Criticality | minor |
|-------------|-----------------------|
| Location | contract.sol#L395,427 |
| Status | Unresolved |

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
sellFeeRate = _sellFeeRate
numTokensSellToAddToLiquidity = amount * 10 ** 9
```

Recommendation

Emit an event for critical parameter changes.

L11 - Unnecessary Boolean equality

| Criticality | minor |
|-------------|-------------------|
| Location | contract.sol#L422 |
| Status | Unresolved |

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

require(bool,string)(blacklistEnabled == false,can only be called once)

Recommendation

Remove the equality to the boolean constant.



Contract Functions

| | Function Name | Visibility | Mutability | Modifiers |
|-------------|-----------------------------|------------|------------|-----------|
| | | | | |
| SafeMath | Library | | | |
| | add | Internal | | |
| | sub | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | div | Internal | | |
| III. | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | 1 | - |
| Auth | Implementation | | | |
| | <constructor></constructor> | Public | ✓ | - |
| | authorize | Public | 1 | onlyOwner |
| | unauthorize | Public | ✓ | onlyOwner |
| | isOwner | Public | | - |
| | isAuthorized | Public | | - |
| | transferOwnership | Public | 1 | onlyOwner |
| IDEXFactory | Interface | | | |



| | createPair | External | 1 | - |
|-------------|---|-----------------|----------|-----------|
| | | | | |
| IDEXRouter | Interface | | | |
| | factory | External | | - |
| | WETH | External | | - |
| | addLiquidity | External | ✓ | - |
| | addLiquidityETH | External | Payable | - |
| | swapExactTokensForTokensSupportin gFeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupportingF eeOnTransferTokens | External | Payable | - |
| | swapExactTokensForETHSupportingF eeOnTransferTokens | External | ✓ | - |
| | | | | |
| AlaskaToken | Implementation | IERC20, Auth | | |
| | <constructor></constructor> | Public | 1 | Auth |
| | <receive ether=""></receive> | External | Payable | - |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | Public | | - |
| | allowance | External | | - |
| | approve | Public | 1 | - |
| | approveMax | External | 1 | - |
| | transfer | External | 1 | - |
| | transferFrom | External | ✓ | - |
| | _transferFrom | Internal | ✓ | |
| | _basicTransfer | Internal | ✓ | |
| | shouldTakeFee | Internal | | |
| | takeFee | Internal | ✓ | |
| | swapBack | Internal | ✓ | swapping |
| | swapTokensForEth | Private | ✓ | |
| | swapToken | Public | ✓ | onlyOwner |
| | openTrade | External | 1 | onlyOwner |

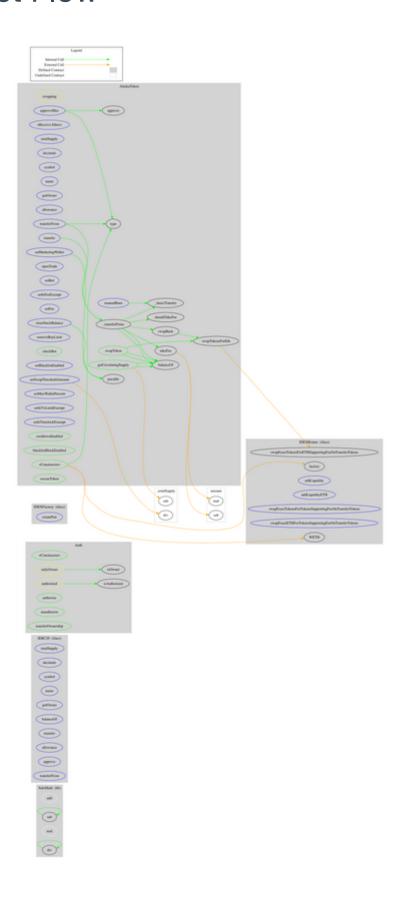
20



| setBot | External | ✓ | onlyOwner |
|------------------------|----------|---|-----------|
| setIsFeeExempt | External | ✓ | onlyOwner |
| setFee | External | ✓ | onlyOwner |
| manualBurn | External | ✓ | onlyOwner |
| getCirculatingSupply | Public | | - |
| setMarketingWallet | External | ✓ | onlyOwner |
| removeBuyLimit | External | ✓ | onlyOwner |
| checkBot | Public | | - |
| setBlacklistEnabled | External | ✓ | onlyOwner |
| setSwapThresholdAmount | External | ✓ | onlyOwner |
| setMaxWalletPercent | External | ✓ | onlyOwner |
| setIsTxLimitExempt | External | ✓ | onlyOwner |
| setIsTimelockExempt | External | ✓ | onlyOwner |
| cooldownEnabled | Public | ✓ | onlyOwner |
| blacklistBlockEnabled | Public | ✓ | onlyOwner |
| clearStuckBalance | External | ✓ | onlyOwner |
| rescueToken | Public | ✓ | onlyOwner |



Contract Flow



Summary

There are some functions that can be abused by the owner like transferring tokens to the team's wallet, manipulating fees, transferring funds to the team's wallet, burning tokens and blacklisting addresses. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is also a limit of max 30% fees in buys and 14% in sales.

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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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The Cyberscope team