



**GreatDane**



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**Audited project: GreatDane**

**Ticker: GreatDane**

**Total supply: 6,900,000,000,000,000**

**Decimals: 9**

**Address contract: 0x2CDc34B884a37aa4054C4D9fB87FBe43721817Bd**

**Compiler Version: v0.8.13+commit.abaa5c0e**

**Optimization Enabled: Yes with 200 runs**

**Contract Deployer Address: 0x98d777e9982d8A6ACFeE9fE2742472DaaF8cfD4E**

**Project website: <https://www.greatdanecoin.com/>**

**KYC: no**

**Languages: Solidity (Smart contract)**

**Blockchain: Binance Smart Chain**

**Audit Team: SECURITY NETWORK**

**<https://securitynetwork.pro/>**

**Audit Date: August 20, 2022**

# SWC Attacks

SWC ID	Title	Status
SWC-100	Function Default Visibility	PASSED
SWC-101	Integer Overflow and Underflow	PASSED
SWC-102	Outdated Compiler Version	PASSED
SWC-103	Floating Pragma	PASSED
SWC-104	Unchecked Call Return Value	PASSED
SWC-105	Unprotected Ether Withdrawal	PASSED
SWC-106	Unprotected SELFDESTRUCT Instruction	PASSED
SWC-107	Reentrancy	PASSED
SWC-108	State Variable Default Visibility	PASSED
SWC-109	Uninitialized Storage Pointer	PASSED
SWC-110	Assert Violation	PASSED
SWC-111	Use of Deprecated Solidity Functions	PASSED
SWC-112	Delegatecall to Untrusted Callee	PASSED
SWC-113	DoS with Failed Call	PASSED
SWC-114	Transaction Order Dependence	PASSED
SWC-115	Authorization through tx.origin	PASSED
SWC-116	Block values as a proxy for time	PASSED
SWC-117	Signature Malleability	PASSED
SWC-118	Incorrect Constructor Name	PASSED
SWC-119	Shadowing State Variables	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	PASSED
SWC-121	Missing Protection against Signature Replay Attacks	PASSED
SWC-122	Lack of Proper Signature Verification	PASSED
SWC-123	Requirement Violation	PASSED
SWC-124	Write to Arbitrary Storage Location	PASSED
SWC-125	Incorrect Inheritance Order	PASSED
SWC-126	Insufficient Gas Griefing	PASSED
SWC-127	Arbitrary Jump with Function Type Variable	PASSED
SWC-128	DoS With Block Gas Limit	LOW
SWC-129	Typographical Error	PASSED
SWC-130	Right-To-Left-Override control character (U+202E)	PASSED
SWC-131	Presence of unused variables	PASSED
SWC-132	Unexpected Ether balance	PASSED
SWC-133	Hash Collisions With Multiple Variable Length Arguments	PASSED
SWC-134	Message call with hardcoded gas amount	PASSED
SWC-135	Code With No Effects	PASSED
SWC-136	Unencrypted Private Data On-Chain	PASSED

## Possible additional HIGH risks

No	Issue description.	Status
1	High fees	Yes
2	Mint function	NO
3	Max Tx Amount	Yes
4	Pause trading without limit	NO
5	Cooldown time for sell without limit	Yes
6	Proxy	NO
7	Other risks	NO

**TOTAL**

**HIGH**

**3**

**MEDIUM**

**0**

**LOW**

**3**

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# Conclusion

## OWNER CAN SET FEES WITHOUT LIMIT

```
function setTaxes(uint256 _rfi, uint256 _marketing, uint256 _liquidity, uint256 _dev, uint256 _buyback) public onlyOwner {  
    taxes = Taxes(_rfi, _marketing, _liquidity, _dev, _buyback);  
    emit FeesChanged();  
}  
function setSellTaxes(uint256 _rfi, uint256 _marketing, uint256 _liquidity, uint256 _dev, uint256 _buyback) public onlyOwner {  
    sellTaxes = Taxes(_rfi, _marketing, _liquidity, _dev, _buyback);  
    emit FeesChanged();  
}
```

## OWNER CAN UPDATE MAX TX LIMIT WITHOUT LIMIT

```
function updateMaxTxLimit(uint256 maxBuy, uint256 maxSell) external onlyOwner {  
    maxBuyLimit = maxBuy * 10**decimals();  
    maxSellLimit = maxSell * 10**decimals();  
}
```

## OWNER CAN SET BIG DELAYS BETWEEN SELLS

```
function updateCooldown(bool state, uint256 time) external onlyOwner {  
    cooldownTime = time * 1 seconds;  
    cooldownEnabled = state;  
}
```

Smart contract contain 3 low severity issue:

### 1. Out of gas

Issue:

includeInReward()

The function includeInReward() also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check th Check that the excluded array lenght is not too big.

### 2. Out of gas

Issue:

getRate()

The function getRate also uses the loop for evaluating current rate. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check th Check that the array lenght is not too big.

### 3. Out of gas

Issue:

getCurrentSupply()

The function getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array lenght is not too big.

