

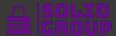
# AUDIT REPORT 23 MAY 2021 FOR SUPERSHIBA.EXCHANGE



Solid Group Auditing Service

Telegram: @solid\_1

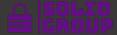
Twitter: https://twitter.com/solid\_group\_1



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# **Overview**

**Network**: Binance Smart Chain **Website**: SuperShiba.xyz

Twitter: Twitter.com/SuperShibabsc Telegram Group: T.me/SuperShibabsc

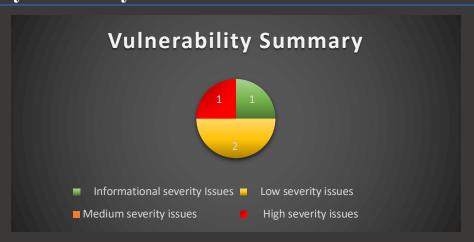
# **Description**

The Super Shiba DEX is something revolutionary that the BSC has been in need of- this exchange will only featured fully audited and KYC'd tokens so that team has approved to list on the exchange. This means when a token is listed on the exchange you can know it's a safe investment. The team are fully DOXXED, and the roadmap is full of amazing moves. The platform will have lucrative farms and pools, a lottery and even a presale platform.

# Files in Scope

Contract Name	Contracts (BSC)
treats.sol	0x570919a72db73799191fc734b6D600750C0Dc18C
masterchef.sol	Not deployed yet
factory.sol	0x6d3703334eCbB0a74E0A67Fe5040a9d850cEcF0E
router.sol	0x8Ba22ebAFcBC717086f94d13dBa5a5F1d06F9DaC
Timelock.sol	Not deployed yet

# **Vulnerability Summary**





## **BEP-20's Conformance**

This test checks for BEP-20's conformance

- All the functions are present
- All the events are present
- Functions return the correct type
- Functions that must be view are view
- Events' parameters are correctly indexed
- The functions emit the events
- Derived contracts do not break the conformance

Function	present	type	è	Correct	events	
				Return value		
totalSupply	V	V	view	<u></u>		
balanceOf(address)	<b>▽</b>	V	view	<b>✓</b>		
transfer (address, uint 256)	V	<u> </u>	external	V	V	
					Transfer	
transferFrom(address,	<b>▽</b>	V	external	<b>▽</b>	<b>~</b>	
address, uint256)					Transfer	
approve(address,uint256)	V	V	external	<b>✓</b>	<b>~</b>	
					Approval	
allowance (address,	V	V	view	V		
address)						
name	<u> </u>	V	view	<b>✓</b>		
symbol	<u> </u>	V	view	<b>▽</b>		

#### Check Events:



**▼** Transfer



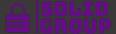
Approve

1 The contract has a mint function; Solid Group will confirm that the ownership was transferred to the masterchef contract after deployment.



No Volatile Code

The contract that was tested is the token's contract: treats.sol



# **Findings**

#### Issue #1:

Туре	Severity	Location	Status
Owner Capabilities	High	Master Chef. sol	Fixed 🔽

#### **Description:**

The contract takes deposit fee when staking is applied, however there is no limitation for the deposit fee value.

This might cause the owner of the contract to set the \_depositFeeBP variable to 100% and take 100% of the new user staking.

#### Recommendation:

Our recommendation is to set a high limit for\_depositFee variable via add() and set() functions.

### Fix:

deposit fee can't be greater than 10%.

require(\_depositFeeBP <= 1000, "add: invalid deposit fee basis points");

#### Issue #2

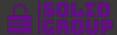
Туре	Severity	Location	Status
Volatile Code	• Low	MasterChef.sol	Not Fixed 💢

#### **Description:**

The implementation of \_lpToken parameter and safeTransfer() function is unknown, both of them are being used widely across contract.

That being said, they may have a malicious logical implementation that calls to the function deposit(), and as a result could lead to another invocation of safeTransfer() without updating user.amount variable.

This could jeopardize user.amount and it will cause a miscalculation in user's balance eventually.



#### Issue #3:

Туре	Severity	Location	Status
Best Practice	• Low	MasterChef.sol	Not Fixed 🔀

#### Description:

Return values of external functions calls are being ignored and not reviewed. i.e. the return value of transfer() function transfer is being ignored via safeEggTransfer() function.

```
function safeEggTransfer(address _to, uint256 _amount) internal {
    uint256 eggBal = egg.balanceOf(address(this));
    if (_amount > eggBal) {
        egg.transfer(_to, eggBal);
    } else {
        egg.transfer(_to, _amount);
    }
}
```

#### Recommendation:

Our recommendation is to always check the return value when calling external functions.

#### <u>Issue #4:</u>

Туре	Severity	Location	Status
Lack of Events	<ul><li>Informational</li></ul>	MasterChef.sol	Not fixed 🔀

#### **Description:**

Missing events for critical operations. Note that events are highly important for the integration with certain DApps in the future. Functions that we have inspected that suffer from lack of events:

- Dev
- setFeeAddress()
- updateEmissionRate()

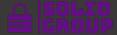
#### Recommendation:

Our recommendation is to always emit events.

i.e.

- -when the core state of the contract is changed
- -when changing the emission rate
- -changing dev address
- -change fee address

Ftc.



#### Issue #5:

Туре	Severity	Location	Status
Centralization	High	factory.sol	Not fixed 🔀

#### **Description:**

Only feeToSetter()'s address has permissions to create new pairs in the system.

Mishandling a private key could cause devastated consequences on the project as a whole.

#### Recommendation:

Our recommendation is to have a list of authorized users in order to handle these kind of tasks. If one address crashes you will have additional backups that can support the contract.