

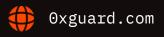
# Smart contracts security assessment

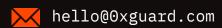
Final report

Tariff: Standard

**XcelSwap** 

May 2022





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## □ Introduction

The report has been prepared for XcelSwap. Two contracts were tested: Timelock and XcelSwapMasterChef. XcelSwapMasterChef is a fork of the famous contracts of the same name from the PancakeSwap and SushiSwap projects. The code is available in the Github repository. The code was checked in the <a href="https://doi.org/10.2540/02">0354002</a> commit. Used libraries are realized with the use of OpenZeppelin libraries, which is considered the best practice.

Name	XcelSwap
Audit date	2022-05-19 - 2022-05-22
Language	Solidity
Platform	Binance Smart Chain

## Contracts checked

Address
https://github.com/XcelSwap/xcelswap-contract-
<u>audit/</u>
blob/03540028fc215977929f6a1608e93df459eb11d1/
contracts/Timelock.sol
https://github.com/XcelSwap/xcelswap-contract-
<u>audit/</u>
blob/03540028fc215977929f6a1608e93df459eb11d1/
contracts/XcelSwapMasterChef.sol

## Procedure

We perform our audit according to the following procedure:

#### **Automated analysis**

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

#### **Manual audit**

- Manually analyze smart contracts for security vulnerabilities
- Smart contracts' logic check

# Known vulnerabilities checked

Title	Check result
Unencrypted Private Data On-Chain	passed
Code With No Effects	passed
Message call with hardcoded gas amount	passed
Typographical Error	passed
DoS With Block Gas Limit	passed
Presence of unused variables	passed
Incorrect Inheritance Order	passed
Requirement Violation	passed
Weak Sources of Randomness from Chain Attributes	passed
Shadowing State Variables	passed
Incorrect Constructor Name	passed
Block values as a proxy for time	passed
Authorization through tx.origin	passed
DoS with Failed Call	passed
Delegatecall to Untrusted Callee	passed

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<u>Use of Deprecated Solidity Functions</u> passed

<u>Assert Violation</u> passed

State Variable Default Visibility passed

Reentrancy not passed

<u>Unprotected SELFDESTRUCT Instruction</u> passed

Unprotected Ether Withdrawal passed

<u>Unchecked Call Return Value</u> passed

Floating Pragma not passed

Outdated Compiler Version passed

Integer Overflow and Underflow passed

<u>Function Default Visibility</u> passed

# Classification of issue severity

**High severity** High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

**Medium severity** Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

**Low severity** Low severity issues do not cause significant destruction to the contract's

functionality. Such issues are recommended to be taken into

consideration.

## Issues

#### **High severity issues**

#### No issues were found

#### **Medium severity issues**

#### 1. Owner account compromised (XcelSwapMasterChef)

The main vulnerability here is that the migrator variable can be set to any contract without restrictions. The migrator can be installed by the owner using the setMigrator() function at any time and an unlimited number of times, which in the worst case (when the owner's account is compromised) can lead to the newly installed migrator being able to transfer all the base LP tokens to an arbitrary address.

**Recommendation:** The first good way to solve this problem would be to add a multi-person multi-signature to call this function, <u>AccessControl</u> from the OpenZeppelin library can help with this task. You also need to temporarily delay the function call so that the user has time to make appropriate decisions.

The second workaround is to completely remove the migration functionality since you can't be completely sure that the migrator's contract will be reassuring.

#### Low severity issues

#### 1. Small minimum delay (Timelock)

The MINIMUM\_DELAY constant has a time period of 6 hours which is too short. It is recommended to set the time to a day or more. The user should have more time to check for pending function calls.

#### 2. No check for null address (Timelock)

To avoid accidental errors when using a contract or deploying it, it is recommended to check the address input parameters for zero values.1) The constructor does not check the admin\_ parameter

for null address

2) The setPendingAdmin() function does not check the pendingAdmin\_ parameter for null address

**Recommendation:** It is recommended to add a check of input parameters to zero address using require.

#### 3. Missing emit event (Timelock)

The constructor assigns the initial address to the admin variable, but does not fire the NewAdmin() event.

**Recommendation:** It is recommended to add a NewAdmin() event call to the function to log the initial address of the admin.

#### 4. Adding identical pools (XcelSwapMasterChef)

If the token is mistakenly added more than once in the add() function, then the calculation of the expected reward in the updatePool() function will be incorrect, since the funds may be distributed to different pools.

#### 5. Optional update (XcelSwapMasterChef)

If the add() or set() function is called with a negative \_withUpdate, the calculation of rewards in other pools in the updatePool() function does not work correctly. It is recommended to remove the \_withUpdate parameter in these functions and leave only the massUpdatePools() call.

#### 6. Reentrancy (XcelSwapMasterChef)

Common case liquidity tokens do not have callback functions, technically reentrancy is possible when using functions utilizing the safeTransfer() method.

**Recommendation:** Consider importing OpenZeppelin ReentrancyGuard contract and adding a nonReentrant modifier to deposit(), withdraw(), emergencyWithdraw(),

#### enterStaking(), leaveStaking().

#### 7. Commission tokens are not supported (XcelSwapMasterChef)

If you try to enter tokens with a commission, then user.amount is incorrectly calculated in the deposit() function, which leads to the withdraw() function being able to withdraw more tokens than we have.

**Recommendation:** It is recommended to add a balance calculation to the pool before and after calling pool .1pToken.safeTransferFrom() in order to subsequently calculate the correct amount without a fee.

```
function deposit(uint256 _pid, uint256 _amount) public {
    ...
    if (_amount > 0) {
        balanceBefore = pool.lptoken.balanceOf(address(this));
        pool.lpToken.safeTransferFrom(address(msg.sender), address(this), _amount);
        balanceAfter = pool.lptoken.balanceOf(address(this));
        user.amount = user.amount.add(balanceAfter.sub(balanceBefore));
    }
    ...
}
```

#### 8. The number of deposited LP tokens is incorrectly calculated (XcelSwapMasterChef)

In the updatePool () function, the balance of LP tokens of this contract is requested in L1441, but if you transfer LP tokens directly to the address of the contract, the balance would be combined with

these tokens. This leads to the incorrect further calculation of the formulas.

**Recommendation:** It is recommended to solve this problem by adding a new uint256 field to the Pool Info structure, in which the number of coins entered by the user will be added on each deposit and subtracted when withdrawing.

```
struct PoolInfo {
   IERC20 lpToken;
   uint256 allocPoint;
   uint256 lastRewardBlock;
   uint256 accSushiPerShare;
   uint256 lpTotalSupply; // new field
}
```

#### 9. Possible lack of gas (XcelSwapMasterChef)

The massUpdatePools() function cycles through the update of each pool from the PoolInfo array. If there are too many pools, then there may not be enough gas to process this function, which causes the pools to stop updating and correctly calculate the staking reward.

#### 10. No check for null address (XcelSwapMasterChef)

To avoid accidental errors when using a contract or deploying it, it is recommended to check the address input parameters for zero values.1) The constructor does not check the <u>\_devaddr</u> parameter for null address

2) dev () function does not check the \_devaddr parameter for null address

**Recommendation:** It is recommended to add a check of input parameters to zero address using require.

# Conclusion

XcelSwap Timelock, XcelSwapMasterChef contracts were audited. 1 medium, 10 low severity issues were found.

We strongly suggest adding unit and functional tests for all contracts.

We also recommend using pragma fixed to the version the contracts have been tested and are intended to be deployed with. This helps to avoid deploying using an outdated compiler version and shields from possible bugs in future solidity releases.

## Disclaimer

This report is subject to the terms and conditions (including without limitation, description of services, confidentiality, disclaimer and limitation of liability)set forth in the Services Agreement, or the scope of services, and terms and conditions provided to the Company in connection with the Agreement. This report provided in connection with the Services set forth in the Agreement shall be used by the Company only to the extent permitted under the terms and conditions set forth in the Agreement. This report may not be transmitted, disclosed, referred to or relied upon by any person for any purposes without 0xGuard prior written consent.

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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

# Slither output

```
MasterChef.safeXldTransfer(address,uint256) (contracts/
XcelSwapMasterChef.sol#1551-1560) ignores return value by xld.transfer(_to,xldBal)
(contracts/XcelSwapMasterChef.sol#1554)
MasterChef.safeXldTransfer(address,uint256) (contracts/
XcelSwapMasterChef.sol#1551-1560) ignores return value by xld.transfer(_to,_amount)
(contracts/XcelSwapMasterChef.sol#1556)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-
transfer
MasterChef.pendingCake(uint256,address) (contracts/XcelSwapMasterChef.sol#1415-1426)
performs a multiplication on the result of a division:
        -x1dReward =
multiplier.mul(xldPerBlock).mul(pool.allocPoint).div(totalAllocPoint) (contracts/
XcelSwapMasterChef.sol#1422)
        -accCakePerShare = accCakePerShare.add(xldReward.mul(1e12).div(lpSupply))
(contracts/XcelSwapMasterChef.sol#1423)
MasterChef.updatePool(uint256) (contracts/XcelSwapMasterChef.sol#1438-1454) performs a
multiplication on the result of a division:
        -x1dReward =
multiplier.mul(xldPerBlock).mul(pool.allocPoint).div(totalAllocPoint) (contracts/
XcelSwapMasterChef.sol#1449)
        -pool.accCakePerShare =
pool.accCakePerShare.add(xldReward.mul(1e12).div(lpSupply)) (contracts/
XcelSwapMasterChef.sol#1452)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-
multiply
XcelDefiToken._writeCheckpoint(address,uint32,uint256,uint256) (contracts/
XcelSwapMasterChef.sol#1195-1213) uses a dangerous strict equality:
        - nCheckpoints > 0 && checkpoints[delegatee][nCheckpoints - 1].fromBlock ==
blockNumber (contracts/XcelSwapMasterChef.sol#1205)
MasterChef.migrate(uint256) (contracts/XcelSwapMasterChef.sol#1398-1407) uses a
dangerous strict equality:
        - require(bool,string)(bal == newLpToken.balanceOf(address(this)),migrate: bad)
(contracts/XcelSwapMasterChef.sol#1405)
MasterChef.updatePool(uint256) (contracts/XcelSwapMasterChef.sol#1438-1454) uses a
dangerous strict equality:
```

```
- lpSupply == 0 (contracts/XcelSwapMasterChef.sol#1444)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dangerous-
strict-equalities
Reentrancy in MasterChef.add(uint256, IBEP20, bool) (contracts/
XcelSwapMasterChef.sol#1351-1364):
        External calls:
        - massUpdatePools() (contracts/XcelSwapMasterChef.sol#1353)
                xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        State variables written after the call(s):
        - poolInfo.push(PoolInfo(_lpToken,_allocPoint,lastRewardBlock,0)) (contracts/
XcelSwapMasterChef.sol#1357-1362)
        updateStakingPool() (contracts/XcelSwapMasterChef.sol#1363)
                - poolInfo[0].allocPoint = points (contracts/
XcelSwapMasterChef.sol#1388)
        - totalAllocPoint = totalAllocPoint.add(_allocPoint) (contracts/
XcelSwapMasterChef.sol#1356)
        updateStakingPool() (contracts/XcelSwapMasterChef.sol#1363)
                - totalAllocPoint =
totalAllocPoint.sub(poolInfo[0].allocPoint).add(points) (contracts/
XcelSwapMasterChef.sol#1387)
Reentrancy in MasterChef.deposit(uint256, uint256) (contracts/
XcelSwapMasterChef.sol#1457-1476):
        External calls:
        updatePool(_pid) (contracts/XcelSwapMasterChef.sol#1463)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1467)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        pool.lpToken.safeTransferFrom(address(msg.sender),address(this),_amount)
(contracts/XcelSwapMasterChef.sol#1471)
        State variables written after the call(s):
        - user.amount = user.amount.add(_amount) (contracts/
XcelSwapMasterChef.sol#1472)
        - user.rewardDebt = user.amount.mul(pool.accCakePerShare).div(1e12) (contracts/
XcelSwapMasterChef.sol#1474)
```

```
Reentrancy in MasterChef.emergencyWithdraw(uint256) (contracts/
XcelSwapMasterChef.sol#1541-1548):
       External calls:
        - pool.lpToken.safeTransfer(address(msg.sender),user.amount) (contracts/
XcelSwapMasterChef.sol#1544)
       State variables written after the call(s):
        - user.amount = 0 (contracts/XcelSwapMasterChef.sol#1546)
        - user.rewardDebt = 0 (contracts/XcelSwapMasterChef.sol#1547)
Reentrancy in MasterChef.enterStaking(uint256) (contracts/
XcelSwapMasterChef.sol#1500-1518):
       External calls:
        updatePool(0) (contracts/XcelSwapMasterChef.sol#1503)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1507)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        - pool.lpToken.safeTransferFrom(address(msg.sender),address(this),_amount)
(contracts/XcelSwapMasterChef.sol#1511)
       State variables written after the call(s):
        - user.amount = user.amount.add(_amount) (contracts/
XcelSwapMasterChef.sol#1512)
        - user.rewardDebt = user.amount.mul(pool.accCakePerShare).div(1e12) (contracts/
XcelSwapMasterChef.sol#1514)
Reentrancy in MasterChef.leaveStaking(uint256) (contracts/
XcelSwapMasterChef.sol#1521-1538):
       External calls:
        updatePool(0) (contracts/XcelSwapMasterChef.sol#1525)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1528)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer( to, amount) (contracts/XcelSwapMasterChef.sol#1556)
       State variables written after the call(s):
        - user.amount = user.amount.sub(_amount) (contracts/
XcelSwapMasterChef.sol#1531)
Reentrancy in MasterChef.leaveStaking(uint256) (contracts/
XcelSwapMasterChef.sol#1521-1538):
```

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```
External calls:
        updatePool(0) (contracts/XcelSwapMasterChef.sol#1525)
                xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1528)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        - pool.lpToken.safeTransfer(address(msg.sender),_amount) (contracts/
XcelSwapMasterChef.sol#1532)
        State variables written after the call(s):
        - user.rewardDebt = user.amount.mul(pool.accCakePerShare).div(1e12) (contracts/
XcelSwapMasterChef.sol#1534)
Reentrancy in MasterChef.migrate(uint256) (contracts/XcelSwapMasterChef.sol#1398-1407):
        External calls:
        - lpToken.safeApprove(address(migrator),bal) (contracts/
XcelSwapMasterChef.sol#1403)
        - newLpToken = migrator.migrate(lpToken) (contracts/
XcelSwapMasterChef.sol#1404)
        State variables written after the call(s):
        pool.lpToken = newLpToken (contracts/XcelSwapMasterChef.sol#1406)
Reentrancy in MasterChef.set(uint256,uint256,bool) (contracts/
XcelSwapMasterChef.sol#1367-1377):
        External calls:
        massUpdatePools() (contracts/XcelSwapMasterChef.sol#1369)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        State variables written after the call(s):
        - poolInfo[_pid].allocPoint = _allocPoint (contracts/
XcelSwapMasterChef.sol#1372)
        updateStakingPool() (contracts/XcelSwapMasterChef.sol#1375)
                - poolInfo[0].allocPoint = points (contracts/
XcelSwapMasterChef.sol#1388)
        - totalAllocPoint = totalAllocPoint.sub(prevAllocPoint).add( allocPoint)
(contracts/XcelSwapMasterChef.sol#1374)
        - updateStakingPool() (contracts/XcelSwapMasterChef.sol#1375)
                - totalAllocPoint =
totalAllocPoint.sub(poolInfo[0].allocPoint).add(points) (contracts/
XcelSwapMasterChef.sol#1387)
```

```
Reentrancy in MasterChef.updatePool(uint256) (contracts/
XcelSwapMasterChef.sol#1438-1454):
        External calls:
        - xld.mint(devaddr,xldReward.div(10)) (contracts/XcelSwapMasterChef.sol#1450)
        - xld.mint(address(this),xldReward) (contracts/XcelSwapMasterChef.sol#1451)
        State variables written after the call(s):
        - pool.accCakePerShare =
pool.accCakePerShare.add(xldReward.mul(1e12).div(lpSupply)) (contracts/
XcelSwapMasterChef.sol#1452)
        - pool.lastRewardBlock = block.number (contracts/XcelSwapMasterChef.sol#1453)
Reentrancy in MasterChef.withdraw(uint256,uint256) (contracts/
XcelSwapMasterChef.sol#1479-1497):
        External calls:
        updatePool( pid) (contracts/XcelSwapMasterChef.sol#1486)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1489)
                xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        State variables written after the call(s):
        - user.amount = user.amount.sub(_amount) (contracts/
XcelSwapMasterChef.sol#1492)
Reentrancy in MasterChef.withdraw(uint256,uint256) (contracts/
XcelSwapMasterChef.sol#1479-1497):
        External calls:
        - updatePool(_pid) (contracts/XcelSwapMasterChef.sol#1486)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1489)
                xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        pool.lpToken.safeTransfer(address(msg.sender),_amount) (contracts/
XcelSwapMasterChef.sol#1493)
        State variables written after the call(s):
        - user.rewardDebt = user.amount.mul(pool.accCakePerShare).div(1e12) (contracts/
XcelSwapMasterChef.sol#1495)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-1
```

```
BEP20.constructor(string, string).name (contracts/XcelSwapMasterChef.sol#739) shadows:
        - BEP20.name() (contracts/XcelSwapMasterChef.sol#755-757) (function)
        - IBEP20.name() (contracts/XcelSwapMasterChef.sol#27) (function)
BEP20.constructor(string, string).symbol (contracts/XcelSwapMasterChef.sol#739) shadows:
        - BEP20.symbol() (contracts/XcelSwapMasterChef.sol#763-765) (function)
        - IBEP20.symbol() (contracts/XcelSwapMasterChef.sol#22) (function)
BEP20.allowance(address,address).owner (contracts/XcelSwapMasterChef.sol#804) shadows:
        - Ownable.owner() (contracts/XcelSwapMasterChef.sol#642-644) (function)
BEP20._approve(address,address,uint256).owner (contracts/XcelSwapMasterChef.sol#963)
shadows:
        - Ownable.owner() (contracts/XcelSwapMasterChef.sol#642-644) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-
shadowing
MasterChef.updateMultiplier(uint256) (contracts/XcelSwapMasterChef.sol#1341-1343)
should emit an event for:
        - BONUS_MULTIPLIER = multiplierNumber (contracts/XcelSwapMasterChef.sol#1342)
MasterChef.add(uint256,IBEP20,bool) (contracts/XcelSwapMasterChef.sol#1351-1364) should
emit an event for:
        - totalAllocPoint = totalAllocPoint.add(_allocPoint) (contracts/
XcelSwapMasterChef.sol#1356)
MasterChef.set(uint256,uint256,bool) (contracts/XcelSwapMasterChef.sol#1367-1377)
should emit an event for:
        - totalAllocPoint = totalAllocPoint.sub(prevAllocPoint).add(_allocPoint)
(contracts/XcelSwapMasterChef.sol#1374)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-
arithmetic
Timelock.constructor(address,uint256).admin_ (contracts/Timelock.sol#235) lacks a zero-
check on :
                - admin = admin_ (contracts/Timelock.sol#239)
Timelock.setPendingAdmin(address).pendingAdmin_ (contracts/Timelock.sol#264) lacks a
zero-check on :
                - pendingAdmin = pendingAdmin_ (contracts/Timelock.sol#272)
Timelock.executeTransaction(address,uint256,string,bytes,uint256).target (contracts/
Timelock.sol#297) lacks a zero-check on :
                - (success, returnData) = target.call.value(value)(callData) (contracts/
Timelock.sol#316)
```

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-

address-validation

```
MasterChef.constructor(XcelDefiToken,address,uint256,uint256)._devaddr (contracts/
XcelSwapMasterChef.sol#1319) lacks a zero-check on :
                - devaddr = devaddr (contracts/XcelSwapMasterChef.sol#1325)
MasterChef.dev(address)._devaddr (contracts/XcelSwapMasterChef.sol#1563) lacks a zero-
check on :
                - devaddr = _devaddr (contracts/XcelSwapMasterChef.sol#1565)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-
address-validation
MasterChef.updatePool(uint256) (contracts/XcelSwapMasterChef.sol#1438-1454) has
external calls inside a loop: lpSupply = pool.lpToken.balanceOf(address(this))
(contracts/XcelSwapMasterChef.sol#1443)
MasterChef.updatePool(uint256) (contracts/XcelSwapMasterChef.sol#1438-1454) has
external calls inside a loop: xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
MasterChef.updatePool(uint256) (contracts/XcelSwapMasterChef.sol#1438-1454) has
external calls inside a loop: xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation/#calls-inside-
a-loop
Reentrancy in Timelock.executeTransaction(address, uint256, string, bytes, uint256)
(contracts/Timelock.sol#297-322):
        External calls:
        - (success, returnData) = target.call.value(value)(callData) (contracts/
Timelock.sol#316)
        Event emitted after the call(s):

    ExecuteTransaction(txHash,target,value,signature,data,eta) (contracts/

Timelock.sol#319)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-3
Reentrancy in MasterChef.deposit(uint256, uint256) (contracts/
XcelSwapMasterChef.sol#1457-1476):
        External calls:
        - updatePool( pid) (contracts/XcelSwapMasterChef.sol#1463)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
```

```
- safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1467)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        pool.lpToken.safeTransferFrom(address(msg.sender),address(this), amount)
(contracts/XcelSwapMasterChef.sol#1471)
        Event emitted after the call(s):
        - Deposit(msg.sender,_pid,_amount) (contracts/XcelSwapMasterChef.sol#1475)
Reentrancy in MasterChef.emergencyWithdraw(uint256) (contracts/
XcelSwapMasterChef.sol#1541-1548):
        External calls:
        - pool.lpToken.safeTransfer(address(msg.sender),user.amount) (contracts/
XcelSwapMasterChef.sol#1544)
        Event emitted after the call(s):
        - EmergencyWithdraw(msg.sender,_pid,user.amount) (contracts/
XcelSwapMasterChef.sol#1545)
Reentrancy in MasterChef.enterStaking(uint256) (contracts/
XcelSwapMasterChef.sol#1500-1518):
        External calls:
        updatePool(0) (contracts/XcelSwapMasterChef.sol#1503)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1507)
                xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        - pool.lpToken.safeTransferFrom(address(msg.sender),address(this),_amount)
(contracts/XcelSwapMasterChef.sol#1511)
        Event emitted after the call(s):
        - Deposit(msg.sender,0,_amount) (contracts/XcelSwapMasterChef.sol#1517)
Reentrancy in MasterChef.leaveStaking(uint256) (contracts/
XcelSwapMasterChef.sol#1521-1538):
        External calls:
        - updatePool(0) (contracts/XcelSwapMasterChef.sol#1525)
                - xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1528)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
```

```
pool.lpToken.safeTransfer(address(msg.sender), amount) (contracts/
XcelSwapMasterChef.sol#1532)
        Event emitted after the call(s):
        - Withdraw(msg.sender,0,_amount) (contracts/XcelSwapMasterChef.sol#1537)
Reentrancy in MasterChef.withdraw(uint256,uint256) (contracts/
XcelSwapMasterChef.sol#1479-1497):
        External calls:
        updatePool(_pid) (contracts/XcelSwapMasterChef.sol#1486)
                xld.mint(devaddr,xldReward.div(10)) (contracts/
XcelSwapMasterChef.sol#1450)
                - xld.mint(address(this),xldReward) (contracts/
XcelSwapMasterChef.sol#1451)
        - safeXldTransfer(msg.sender,pending) (contracts/XcelSwapMasterChef.sol#1489)
                - xld.transfer(_to,xldBal) (contracts/XcelSwapMasterChef.sol#1554)
                - xld.transfer(_to,_amount) (contracts/XcelSwapMasterChef.sol#1556)
        - pool.lpToken.safeTransfer(address(msg.sender),_amount) (contracts/
XcelSwapMasterChef.sol#1493)
        Event emitted after the call(s):
        - Withdraw(msg.sender,_pid,_amount) (contracts/XcelSwapMasterChef.sol#1496)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-3
Timelock.queueTransaction(address,uint256,string,bytes,uint256) (contracts/
Timelock.sol#277-286) uses timestamp for comparisons
        Dangerous comparisons:
        - require(bool, string)(eta >=
getBlockTimestamp().add(delay),Timelock::queueTransaction: Estimated execution block
must satisfy delay.) (contracts/Timelock.sol#279)
Timelock.executeTransaction(address,uint256,string,bytes,uint256) (contracts/
Timelock.sol#297-322) uses timestamp for comparisons
        Dangerous comparisons:
        - require(bool,string)(getBlockTimestamp() >= eta,Timelock::executeTransaction:
Transaction hasn't surpassed time lock.) (contracts/Timelock.sol#302)
        - require(bool,string)(getBlockTimestamp() <=</pre>
eta.add(GRACE_PERIOD), Timelock::executeTransaction: Transaction is stale.) (contracts/
Timelock.sol#303)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-
timestamp
XcelDefiToken.delegateBySig(address,uint256,uint256,uint8,bytes32,bytes32) (contracts/
XcelSwapMasterChef.sol#1061-1102) uses timestamp for comparisons
```

```
Dangerous comparisons:
        - require(bool,string)(now <= expiry,XLD::delegateBySig: signature expired)</pre>
(contracts/XcelSwapMasterChef.sol#1100)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-
timestamp
Address.isContract(address) (contracts/XcelSwapMasterChef.sol#341-350) uses assembly
        - INLINE ASM (contracts/XcelSwapMasterChef.sol#348)
Address._verifyCallResult(bool,bytes,string) (contracts/XcelSwapMasterChef.sol#486-503)
uses assembly
        - INLINE ASM (contracts/XcelSwapMasterChef.sol#495-498)
XcelDefiToken.getChainId() (contracts/XcelSwapMasterChef.sol#1220-1224) uses assembly
        - INLINE ASM (contracts/XcelSwapMasterChef.sol#1222)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
Different versions of Solidity is used:
        - Version used: ['0.6.12', '>=0.4.0']
        - >=0.4.0 (contracts/Timelock.sol#7)
        - 0.6.12 (contracts/Timelock.sol#208)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#different-
pragma-directives-are-used
Different versions of Solidity is used:
        - Version used: ['0.6.12', '>=0.4.0', '>=0.6.0<0.8.0', '>=0.6.2<0.8.0',
'>=0.6.4']
        - >=0.6.4 (contracts/XcelSwapMasterChef.sol#6)
        - >=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#102)</pre>
        - >=0.6.2<0.8.0 (contracts/XcelSwapMasterChef.sol#318)
        - >=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#509)
        - >=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#585)
        - >=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#611)</pre>
        - >=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#680)
        - >=0.4.0 (contracts/XcelSwapMasterChef.sol#685)
        - 0.6.12 (contracts/XcelSwapMasterChef.sol#985)
        - 0.6.12 (contracts/XcelSwapMasterChef.sol#1229)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#different-
pragma-directives-are-used
SafeMath.div(uint256, uint256) (contracts/Timelock.sol#111-113) is never used and should
be removed
SafeMath.div(uint256, uint256, string) (contracts/Timelock.sol#127-137) is never used and
```

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should be removed

SafeMath.min(uint256,uint256) (contracts/Timelock.sol#176-178) is never used and should be removed

SafeMath.mod(uint256,uint256) (contracts/Timelock.sol#151-153) is never used and should be removed

SafeMath.mod(uint256,uint256,string) (contracts/Timelock.sol#167-174) is never used and should be removed

SafeMath.mul(uint256,uint256) (contracts/Timelock.sol#85-97) is never used and should be removed

SafeMath.sqrt(uint256) (contracts/Timelock.sol#181-192) is never used and should be removed

SafeMath.sub(uint256,uint256) (contracts/Timelock.sol#50-52) is never used and should be removed

 $Safe Math.sub (uint 256, uint 256, string) \ (contracts/Timelock.sol \#64-73) \ is \ never \ used \ and \ should \ be \ removed$ 

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Address.functionCall(address,bytes) (contracts/XcelSwapMasterChef.sol#394-396) is never used and should be removed

Address.functionCallWithValue(address,bytes,uint256) (contracts/

XcelSwapMasterChef.sol#419-421) is never used and should be removed

Address.functionDelegateCall(address,bytes) (contracts/XcelSwapMasterChef.sol#468-470) is never used and should be removed

Address.functionDelegateCall(address,bytes,string) (contracts/

XcelSwapMasterChef.sol#478-484) is never used and should be removed

 $Address.functionStaticCall(address,bytes) \ (contracts/XcelSwapMasterChef.sol\#444-446) \ is never used and should be removed$ 

Address.functionStaticCall(address,bytes,string) (contracts/

XcelSwapMasterChef.sol#454-460) is never used and should be removed

Address.sendValue(address,uint256) (contracts/XcelSwapMasterChef.sol#368-374) is never used and should be removed

BEP20.\_burn(address,uint256) (contracts/XcelSwapMasterChef.sol#942-948) is never used and should be removed

BEP20.\_burnFrom(address,uint256) (contracts/XcelSwapMasterChef.sol#977-980) is never used and should be removed

Context.\_msgData() (contracts/XcelSwapMasterChef.sol#602-605) is never used and should be removed

SafeBEP20.safeDecreaseAllowance(IBEP20,address,uint256) (contracts/

XcelSwapMasterChef.sol#558-561) is never used and should be removed

SafeBEP20.safeIncreaseAllowance(IBEP20,address,uint256) (contracts/

XcelSwapMasterChef.sol#553-556) is never used and should be removed

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```
SafeMath.tryAdd(uint256,uint256) (contracts/XcelSwapMasterChef.sol#123-127) is never
used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/XcelSwapMasterChef.sol#159-162) is never
used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/XcelSwapMasterChef.sol#169-172) is never
used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/XcelSwapMasterChef.sol#144-152) is never
used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/XcelSwapMasterChef.sol#134-137) is never
used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
Pragma version>=0.4.0 (contracts/Timelock.sol#7) allows old versions
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-
versions-of-solidity
Pragma version>=0.6.4 (contracts/XcelSwapMasterChef.sol#6) allows old versions
Pragma version>=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#102) is too complex
Pragma version>=0.6.2<0.8.0 (contracts/XcelSwapMasterChef.sol#318) is too complex
Pragma version>=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#509) is too complex
Pragma version>=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#585) is too complex
Pragma version>=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#611) is too complex
Pragma version>=0.6.0<0.8.0 (contracts/XcelSwapMasterChef.sol#680) is too complex
Pragma version>=0.4.0 (contracts/XcelSwapMasterChef.sol#685) allows old versions
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-
versions-of-solidity
Low level call in Timelock.executeTransaction(address,uint256,string,bytes,uint256)
(contracts/Timelock.sol#297-322):
        - (success,returnData) = target.call.value(value)(callData) (contracts/
Timelock.sol#316)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-
calls
Low level call in Address.sendValue(address,uint256) (contracts/
XcelSwapMasterChef.sol#368-374):
        - (success) = recipient.call{value: amount}() (contracts/
XcelSwapMasterChef.sol#372)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string)
(contracts/XcelSwapMasterChef.sol#429-436):
        - (success,returndata) = target.call{value: value}(data) (contracts/
XcelSwapMasterChef.sol#434)
```

```
Low level call in Address.functionStaticCall(address,bytes,string) (contracts/
XcelSwapMasterChef.sol#454-460):
        - (success,returndata) = target.staticcall(data) (contracts/
XcelSwapMasterChef.sol#458)
Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/
XcelSwapMasterChef.sol#478-484):
        - (success, returndata) = target.delegatecall(data) (contracts/
XcelSwapMasterChef.sol#482)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-
calls
Variable Timelock.admin_initialized (contracts/Timelock.sol#230) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-
solidity-naming-conventions
Parameter XcelDefiToken.mint(address,uint256)._to (contracts/XcelSwapMasterChef.sol#991)
is not in mixedCase
Parameter XcelDefiToken.mint(address,uint256)._amount (contracts/
XcelSwapMasterChef.sol#991) is not in mixedCase
Variable XcelDefiToken._delegates (contracts/XcelSwapMasterChef.sol#1003) is not in
mixedCase
Parameter MasterChef.add(uint256, IBEP20, bool)._allocPoint (contracts/
XcelSwapMasterChef.sol#1351) is not in mixedCase
Parameter MasterChef.add(uint256, IBEP20, bool)._1pToken (contracts/
XcelSwapMasterChef.sol#1351) is not in mixedCase
Parameter MasterChef.add(uint256, IBEP20, bool)._withUpdate (contracts/
XcelSwapMasterChef.sol#1351) is not in mixedCase
Parameter MasterChef.set(uint256,uint256,bool)._pid (contracts/
XcelSwapMasterChef.sol#1367) is not in mixedCase
Parameter MasterChef.set(uint256,uint256,bool)._allocPoint (contracts/
XcelSwapMasterChef.sol#1367) is not in mixedCase
Parameter MasterChef.set(uint256,uint256,bool)._withUpdate (contracts/
XcelSwapMasterChef.sol#1367) is not in mixedCase
Parameter MasterChef.setMigrator(IMigratorChef)._migrator (contracts/
XcelSwapMasterChef.sol#1393) is not in mixedCase
Parameter MasterChef.migrate(uint256)._pid (contracts/XcelSwapMasterChef.sol#1398) is
not in mixedCase
Parameter MasterChef.getMultiplier(uint256,uint256)._from (contracts/
XcelSwapMasterChef.sol#1410) is not in mixedCase
Parameter MasterChef.getMultiplier(uint256,uint256)._to (contracts/
XcelSwapMasterChef.sol#1410) is not in mixedCase
```

```
Parameter MasterChef.pendingCake(uint256,address). pid (contracts/
XcelSwapMasterChef.sol#1415) is not in mixedCase
Parameter MasterChef.pendingCake(uint256,address)._user (contracts/
XcelSwapMasterChef.sol#1415) is not in mixedCase
Parameter MasterChef.updatePool(uint256)._pid (contracts/XcelSwapMasterChef.sol#1438)
is not in mixedCase
Parameter MasterChef.deposit(uint256, uint256)._pid (contracts/
XcelSwapMasterChef.sol#1457) is not in mixedCase
Parameter MasterChef.deposit(uint256,uint256)._amount (contracts/
XcelSwapMasterChef.sol#1457) is not in mixedCase
Parameter MasterChef.withdraw(uint256,uint256)._pid (contracts/
XcelSwapMasterChef.sol#1479) is not in mixedCase
Parameter MasterChef.withdraw(uint256,uint256). amount (contracts/
XcelSwapMasterChef.sol#1479) is not in mixedCase
Parameter MasterChef.enterStaking(uint256)._amount (contracts/
XcelSwapMasterChef.sol#1500) is not in mixedCase
Parameter MasterChef.leaveStaking(uint256)._amount (contracts/
XcelSwapMasterChef.sol#1521) is not in mixedCase
Parameter MasterChef.emergencyWithdraw(uint256)._pid (contracts/
XcelSwapMasterChef.sol#1541) is not in mixedCase
Parameter MasterChef.safeXldTransfer(address,uint256)._to (contracts/
XcelSwapMasterChef.sol#1551) is not in mixedCase
Parameter MasterChef.safeXldTransfer(address,uint256)._amount (contracts/
XcelSwapMasterChef.sol#1551) is not in mixedCase
Parameter MasterChef.dev(address)._devaddr (contracts/XcelSwapMasterChef.sol#1563) is
not in mixedCase
Variable MasterChef.BONUS_MULTIPLIER (contracts/XcelSwapMasterChef.sol#1299) is not in
mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-
solidity-naming-conventions
Redundant expression "this (contracts/XcelSwapMasterChef.sol#603)" inContext (contracts/
XcelSwapMasterChef.sol#597-606)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-
statements
setDelay(uint256) should be declared external:
        - Timelock.setDelay(uint256) (contracts/Timelock.sol#247-254)
acceptAdmin() should be declared external:
        - Timelock.acceptAdmin() (contracts/Timelock.sol#256-262)
setPendingAdmin(address) should be declared external:
```

```
- Timelock.setPendingAdmin(address) (contracts/Timelock.sol#264-275)
queueTransaction(address,uint256,string,bytes,uint256) should be declared external:
        - Timelock.queueTransaction(address,uint256,string,bytes,uint256) (contracts/
Timelock.sol#277-286)
cancelTransaction(address, uint256, string, bytes, uint256) should be declared external:
        - Timelock.cancelTransaction(address,uint256,string,bytes,uint256) (contracts/
Timelock.sol#288-295)
executeTransaction(address,uint256,string,bytes,uint256) should be declared external:
        - Timelock.executeTransaction(address,uint256,string,bytes,uint256) (contracts/
Timelock.sol#297-322)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-
function-that-could-be-declared-external
renounceOwnership() should be declared external:
        - Ownable.renounceOwnership() (contracts/XcelSwapMasterChef.sol#661-664)
transferOwnership(address) should be declared external:
        - Ownable.transferOwnership(address) (contracts/XcelSwapMasterChef.sol#670-674)
symbol() should be declared external:
        - BEP20.symbol() (contracts/XcelSwapMasterChef.sol#763-765)
decimals() should be declared external:
        - BEP20.decimals() (contracts/XcelSwapMasterChef.sol#770-772)
totalSupply() should be declared external:
        - BEP20.totalSupply() (contracts/XcelSwapMasterChef.sol#777-779)
transfer(address, uint256) should be declared external:
        - BEP20.transfer(address,uint256) (contracts/XcelSwapMasterChef.sol#796-799)
allowance(address, address) should be declared external:
        - BEP20.allowance(address,address) (contracts/XcelSwapMasterChef.sol#804-806)
approve(address, uint256) should be declared external:
        - BEP20.approve(address,uint256) (contracts/XcelSwapMasterChef.sol#815-818)
transferFrom(address,address,uint256) should be declared external:
        - BEP20.transferFrom(address,address,uint256) (contracts/
XcelSwapMasterChef.sol#832-840)
increaseAllowance(address, uint256) should be declared external:
        - BEP20.increaseAllowance(address, uint256) (contracts/
XcelSwapMasterChef.sol#854-857)
decreaseAllowance(address, uint256) should be declared external:
        - BEP20.decreaseAllowance(address, uint256) (contracts/
XcelSwapMasterChef.sol#873-876)
mint(uint256) should be declared external:
        - BEP20.mint(uint256) (contracts/XcelSwapMasterChef.sol#886-889)
mint(address, uint256) should be declared external:
```

```
- XcelDefiToken.mint(address,uint256) (contracts/XcelSwapMasterChef.sol#991-994)
updateMultiplier(uint256) should be declared external:
        - MasterChef.updateMultiplier(uint256) (contracts/
XcelSwapMasterChef.sol#1341-1343)
add(uint256, IBEP20, bool) should be declared external:
        - MasterChef.add(uint256,IBEP20,bool) (contracts/
XcelSwapMasterChef.sol#1351-1364)
set(uint256,uint256,bool) should be declared external:
        - MasterChef.set(uint256,uint256,bool) (contracts/
XcelSwapMasterChef.sol#1367-1377)
setMigrator(IMigratorChef) should be declared external:
        - MasterChef.setMigrator(IMigratorChef) (contracts/
XcelSwapMasterChef.sol#1393-1395)
migrate(uint256) should be declared external:
        - MasterChef.migrate(uint256) (contracts/XcelSwapMasterChef.sol#1398-1407)
deposit(uint256, uint256) should be declared external:
        - MasterChef.deposit(uint256, uint256) (contracts/
XcelSwapMasterChef.sol#1457-1476)
withdraw(uint256, uint256) should be declared external:
        - MasterChef.withdraw(uint256,uint256) (contracts/
XcelSwapMasterChef.sol#1479-1497)
enterStaking(uint256) should be declared external:
        - MasterChef.enterStaking(uint256) (contracts/XcelSwapMasterChef.sol#1500-1518)
leaveStaking(uint256) should be declared external:
        - MasterChef.leaveStaking(uint256) (contracts/XcelSwapMasterChef.sol#1521-1538)
emergencyWithdraw(uint256) should be declared external:
        - MasterChef.emergencyWithdraw(uint256) (contracts/
XcelSwapMasterChef.sol#1541-1548)
dev(address) should be declared external:
        - MasterChef.dev(address) (contracts/XcelSwapMasterChef.sol#1563-1566)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-
function-that-could-be-declared-external
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