

REPORT 5F45BDBAC1A2B80011C3C6ED

Created Wed Aug 26 2020 01:41:14 GMT+0000 (Coordinated Universal Time)
Number of analyses 3
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REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
0e0f2b5b-153e-4c6e-af44-56e51583ab0e	TimestampValidator.sol	2
89918838-6071-484a-838d-65e10cdd9227	loyaltySettings.sol	2
133a593c-26f3-465d-a63b-22eb744d1440	SparkleToken.sol	1

Started	Wed Aug 26 2020 01:41:23 GMT+0000 (Coordinated Universal Time)
Finished	Wed Aug 26 2020 01:56:36 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Client Tool	Mythx-CLI-0.6.19
Main Source File	TimestampValidator.sol

DETECTED VULNERABILITIES

HIGH **MEDIUM** **LOW**

1 0 1

ISSUES

HIGH The arithmetic operator can overflow.
It is possible to cause an integer overflow or underflow in the arithmetic operation.

SWC-101

Source file
TimestampValidator.sol
Locations

```
43 | uint256 currentTime = block.timestamp;  
44 | uint256 depositTime = block.timestamp;  
45 | uint256 rewardTime = block.timestamp + verifyTimeLegnth;  
46 | require (verifyTimeLegnth == 60, 'timestamps do not match');  
47 | require (currentTime == block.timestamp, 'timestamps do not match');
```

LOW An outdated compiler version is used.
The compiler version specified in the pragma directive may have known bugs. It is recommended to use the latest minor release of solc 0.5 or 0.6. For more information on Solidity compiler bug reports and fixes refer to <https://github.com/ethereum/solidity/releases>.

SWC-102

Source file
TimestampValidator.sol
Locations

```
1 | pragma solidity 0.4.25;  
2 |  
3 | import './ReentrancyGuard.sol';
```

Started	Wed Aug 26 2020 01:41:23 GMT+0000 (Coordinated Universal Time)
Finished	Wed Aug 26 2020 01:56:55 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Client Tool	Mythx-Cli-0.6.19
Main Source File	LoyaltySettings.sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	0	2

ISSUES

LOW

An outdated compiler version is used.

SWC-102

The compiler version specified in the pragma directive may have known bugs. It is recommended to use the latest minor release of solc 0.5 or 0.6. For more information on Solidity compiler bug reports and fixes refer to <https://github.com/ethereum/solidity/releases>.

Source file

loyaltySettings.sol

Locations

```
1 | pragma solidity 0.4.25;
2 |
```

LOW

Multiple calls are executed in the same transaction.

SWC-113

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

Source file

loyaltySettings.sol

Locations

```
257 | POL._rewardTime = POL._depositTime.add(_timeLegnth);
258 | time.setTimestamp(msg.sender);
259 | token.transferFrom(address(msg.sender), address(this), _value);
260 | } else {
261 | revert ('Unexpected error');
```

Started	Wed Aug 26 2020 01:41:33 GMT+0000 (Coordinated Universal Time)
Finished	Wed Aug 26 2020 01:56:44 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Client Tool	Mythx-CLI-0.6.19
Main Source File	SparkleToken.sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	0	1

ISSUES

LOW

An outdated compiler version is used.

SWC-102

The compiler version specified in the pragma directive may have known bugs. It is recommended to use the latest minor release of solc 0.5 or 0.6. For more information on Solidity compiler bug reports and fixes refer to <https://github.com/ethereum/solidity/releases>.

Source file

SparkleToken.sol

Locations

```
3  */
4
5  pragma solidity 0.4.25;
6
7  // File: openzeppelin-solidity/contracts/token/ERC20/IERC20.sol
```