



StarterCoin  
Smart Contract  
Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
StarterCoin	STAC	Ethereum

## Addresses

Contract address	0x9a005c9a89bd72a4bd27721e7a09a3c11d2b03c4
Contract deployer address	0x1B4Db82b23e50391D4380B780eCD405E4885d299

## Project Website

<https://coinstarter.com/>

## Codebase

<https://etherscan.io/address/0x9a005c9a89bd72a4bd27721e7a09a3c11d2b03c4#code>

# SUMMARY

CoinStarter is an ecosystem for social engagement, news, and information and a fantasy crypto trading platform.

## Contract Summary

### Documentation Quality

StarterCoin provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also dont have any high risk issue.

### Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by StarterCoin with the discovery of several low issues.

### Test Coverage

Test coverage of the project is 100% ( Through Codebase )

## Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 58, 212, 219, 279, 126 and 156.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 5.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 28 and 22.
- SWC-111 | It is recommended to use alternatives to the deprecated constructions on lines 8, 14, 21, 26, 35, 41, 118, 148, 202 and 284.
- SWC-116 | It is recommended to use oracles for block values as a proxy for time on lines 286 and 286.

## CONCLUSION

We have audited the StarterCoin project released in January 2018 to discover issues and identify potential security vulnerabilities in StarterCoin Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the StarterCoin smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are function visibility is not set (prior to Solidity 0.5.0), a floating pragma is set, a state variable visibility is not set, use of the "constant" state mutability modifier is deprecated, a control flow decision is made based on The `block.timestamp` environment variable and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

# AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	<b>ISSUE FOUND</b>
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	<b>PASS</b>
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	<b>PASS</b>
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	<b>ISSUE FOUND</b>
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	<b>PASS</b>
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	<b>PASS</b>
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	<b>PASS</b>
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	<b>PASS</b>
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	<b>PASS</b>
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	<b>ISSUE FOUND</b>
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	<b>ISSUE FOUND</b>
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	<b>PASS</b>

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	ISSUE FOUND
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



# SMART CONTRACT ANALYSIS

<b>Started</b>	Friday Jan 05 2018 14:33:08 GMT+0000 (Coordinated Universal Time)
<b>Finished</b>	Saturday Jan 06 2018 23:28:07 GMT+0000 (Coordinated Universal Time)
<b>Mode</b>	Standard
<b>Main Source File</b>	StarterCoin.sol

## Detected Issues

ID	Title	Severity	Status
SWC-100	FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)	low	acknowledged
SWC-100	FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)	low	acknowledged
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SWC-100	FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	AN ASSERTION VIOLATION WAS TRIGGERED.	low	acknowledged
SWC-110	AN ASSERTION VIOLATION WAS TRIGGERED.	low	acknowledged

<b>SWC-111</b>	USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.	<b>low</b>	acknowledged
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<b>SWC-111</b>	USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.	<b>low</b>	acknowledged
<b>SWC-116</b>	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	<b>low</b>	acknowledged
<b>SWC-116</b>	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	<b>low</b>	acknowledged

## SWC-100 | FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)

LINE 58

### low SEVERITY

The function definition of "Ownable" lacks a visibility specifier. Note that the compiler assumes "public" visibility by default. Function visibility should always be specified explicitly to assure correctness of the code and improve readability.

### Source File

- StarterCoin.sol

### Locations

```
57  */
58  function Ownable() {
59  owner = msg.sender;
60  }
61
62
```

# SWC-100 | FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)

LINE 212

## low SEVERITY

The function definition of "increaseApproval" lacks a visibility specifier. Note that the compiler assumes "public" visibility by default. Function visibility should always be specified explicitly to assure correctness of the code and improve readability.

## Source File

- StarterCoin.sol

## Locations

```
211  */
212  function increaseApproval (address _spender, uint _addedValue)
213  returns (bool success) {
214  allowed[msg.sender][_spender] = allowed[msg.sender][_spender].add(_addedValue);
215  Approval(msg.sender, _spender, allowed[msg.sender][_spender]);
216
```

# SWC-100 | FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)

LINE 219

## low SEVERITY

The function definition of "decreaseApproval" lacks a visibility specifier. Note that the compiler assumes "public" visibility by default. Function visibility should always be specified explicitly to assure correctness of the code and improve readability.

## Source File

- StarterCoin.sol

## Locations

```
218
219  function decreaseApproval (address _spender, uint _subtractedValue)
220  returns (bool success) {
221  uint oldValue = allowed[msg.sender][_spender];
222  if (_subtractedValue > oldValue) {
223
```

## SWC-100 | FUNCTION VISIBILITY IS NOT SET (PRIOR TO SOLIDITY 0.5.0)

LINE 279

### low SEVERITY

The function definition of "StarterCoin" lacks a visibility specifier. Note that the compiler assumes "public" visibility by default. Function visibility should always be specified explicitly to assure correctness of the code and improve readability.

### Source File

- StarterCoin.sol

### Locations

```
278
279  function StarterCoin(uint256 _endTimeICO, address _bountyWallet) {
280  endTimeICO = _endTimeICO;
281  bountyWallet = _bountyWallet;
282  }
283
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 5

### low SEVERITY

The current pragma Solidity directive is `^0.4.13`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- StarterCoin.sol

### Locations

```
4
5  pragma solidity ^0.4.13;
6
7  library SafeMath {
8  function mul(uint256 a, uint256 b) internal constant returns (uint256) {
9
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 126

### low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "balances" is internal. Other possible visibility settings are public and private.

### Source File

- StarterCoin.sol

### Locations

```
125
126 mapping(address => uint256) balances;
127
128 /**
129  * @dev transfer token for a specified address
130
```



## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 156

### low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "allowed" is internal. Other possible visibility settings are public and private.

### Source File

- StarterCoin.sol

### Locations

```
155
156 mapping (address => mapping (address => uint256)) allowed;
157
158
159 /**
160
```

## SWC-110 | AN ASSERTION VIOLATION WAS TRIGGERED.

LINE 28

### low SEVERITY

It is possible to cause an assertion violation. Note that Solidity `assert()` statements should only be used to check invariants. Review the transaction trace generated for this issue and either make sure your program logic is correct, or use `require()` instead of `assert()` if your goal is to constrain user inputs or enforce preconditions. Remember to validate inputs from both callers (for instance, via passed arguments) and callees (for instance, via return values).

### Source File

- StarterCoin.sol

### Locations

```
27  uint256 c = a + b;  
28  assert(c >= a);  
29  return c;  
30  }  
31  }  
32
```

## SWC-110 | AN ASSERTION VIOLATION WAS TRIGGERED.

LINE 22

### low SEVERITY

It is possible to cause an assertion violation. Note that Solidity `assert()` statements should only be used to check invariants. Review the transaction trace generated for this issue and either make sure your program logic is correct, or use `require()` instead of `assert()` if your goal is to constrain user inputs or enforce preconditions. Remember to validate inputs from both callers (for instance, via passed arguments) and callees (for instance, via return values).

### Source File

- StarterCoin.sol

### Locations

```
21  function sub(uint256 a, uint256 b) internal constant returns (uint256) {
22  assert(b <= a);
23  return a - b;
24  }
25
26
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 8

## low SEVERITY

Using "constant" as a state mutability modifier in function "mul" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
7 library SafeMath {
8   function mul(uint256 a, uint256 b) internal constant returns (uint256) {
9     uint256 c = a * b;
10    assert(a == 0 || c / a == b);
11    return c;
12  }
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 14

## low SEVERITY

Using "constant" as a state mutability modifier in function "div" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
13
14 function div(uint256 a, uint256 b) internal constant returns (uint256) {
15 // assert(b > 0); // Solidity automatically throws when dividing by 0
16 uint256 c = a / b;
17 // assert(a == b * c + a % b); // There is no case in which this doesn't hold
18
```

## SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 21

### low SEVERITY

Using "constant" as a state mutability modifier in function "sub" is disallowed as of Solidity version 0.5.0. Use "view" instead.

### Source File

- StarterCoin.sol

### Locations

```
20
21  function sub(uint256 a, uint256 b) internal constant returns (uint256) {
22  assert(b <= a);
23  return a - b;
24  }
25
```

## SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 26

### low SEVERITY

Using "constant" as a state mutability modifier in function "add" is disallowed as of Solidity version 0.5.0. Use "view" instead.

### Source File

- StarterCoin.sol

### Locations

```
25
26  function add(uint256 a, uint256 b) internal constant returns (uint256) {
27  uint256 c = a + b;
28  assert(c >= a);
29  return c;
30
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 35

## low SEVERITY

Using "constant" as a state mutability modifier in function "balanceOf" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
34  uint256 public totalSupply;
35  function balanceOf(address who) public constant returns (uint256);
36  function transfer(address to, uint256 value) public returns (bool);
37  event Transfer(address indexed from, address indexed to, uint256 value);
38  }
39
```



# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 41

## low SEVERITY

Using "constant" as a state mutability modifier in function "allowance" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
40 contract ERC20 is ERC20Basic {
41   function allowance(address owner, address spender) public constant returns
   (uint256);
42   function transferFrom(address from, address to, uint256 value) public returns
   (bool);
43   function approve(address spender, uint256 value) public returns (bool);
44   event Approval(address indexed owner, address indexed spender, uint256 value);
45
```

## SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 118

### low SEVERITY

Using "constant" as a state mutability modifier in function "transferableTokens" is disallowed as of Solidity version 0.5.0. Use "view" instead.

### Source File

- StarterCoin.sol

### Locations

```
117  */
118  function transferableTokens(address holder, uint64 time) public constant returns
(uint256) {
119  return balanceOf(holder);
120  }
121  }
122
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 148

## low SEVERITY

Using "constant" as a state mutability modifier in function "balanceOf" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
147  */
148  function balanceOf(address _owner) public constant returns (uint256 balance) {
149  return balances[_owner];
150  }
151
152
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 202

## low SEVERITY

Using "constant" as a state mutability modifier in function "allowance" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
201  */
202  function allowance(address _owner, address _spender) public constant returns
(uint256 remaining) {
203  return allowed[_owner][_spender];
204  }
205
206
```

# SWC-111 | USE OF THE "CONSTANT" STATE MUTABILITY MODIFIER IS DEPRECATED.

LINE 284

## low SEVERITY

Using "constant" as a state mutability modifier in function "transferableTokens" is disallowed as of Solidity version 0.5.0. Use "view" instead.

## Source File

- StarterCoin.sol

## Locations

```
283
284  function transferableTokens(address holder, uint64 time) public constant returns
    (uint256) {
285  // allow transfers after the end of ICO
286  return (time > endTimeICO) || (holder == bountyWallet) ? balanceOf(holder) : 0;
287  }
288
```

## SWC-116 | A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.

LINE 286

### low SEVERITY

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- StarterCoin.sol

### Locations

```
285 // allow transfers after the end of ICO
286 return (time > endTimeICO) || (holder == bountyWallet) ? balanceOf(holder) : 0;
287 }
288
289 }
290
```

## SWC-116 | A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.

LINE 286

### low SEVERITY

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- StarterCoin.sol

### Locations

```
285 // allow transfers after the end of ICO
286 return (time > endTimeICO) || (holder == bountyWallet) ? balanceOf(holder) : 0;
287 }
288
289 }
290
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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