

ProTools

Smart Contract Audit Report



13 Jan 2023



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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
ProTools	PTOL	Ethereum	

Addresses

Contract address	0x82B9680101Dad9a09fd5E2Dd4E1385096587Bf75
Contract deployer address	0x38B617c6A17B2B072C5cBE34aE09735A32Fd245d

Project Website

https://protools.tech/

Codebase

https://etherscan.io/address/0x82B9680101Dad9a09fd5E2Dd4E1385096587Bf75#code



SUMMARY

ProTools is an ecosystem way with a simple goal – as a tool to create convenience, security, and accessibility for DeFi investors and developers. Protools utilities and services will be developed with safety and investor convenience in mind, to fix classic problems plaguing DeFi, from a simple workflow.

Contract Summary

Documentation Quality

ProTools 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 ProTools 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 130, 131, 141, 142, 144, 145, 147, 148, 149, 150 and 159.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 17, 26, 33, 34, 42, 137, 137, 138, 138, 149, 158, 158, 213, 310, 310, 316, 316 and 322.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 14.
- 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 258, 259, 294 and 295.



CONCLUSION

We have audited the ProTools project released on January 2023 to discover issues and identify potential security vulnerabilities in ProTools 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 ProTools 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 some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set 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.	ISSUE FOUND	
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.		
Uninitialized Storage Pointer	SWC-109	SWC-109 Uninitialized local storage variables can point to unexpected storage locations in the contract.		
Assert Violation	SWC-110 SWC-123	, ,		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	ctions should never be used. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



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.	
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.	PASS
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.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
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		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.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() 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

Started	Thursday Jan 12 2023 16:44:25 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Jan 13 2023 04:26:38 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	ProTools.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
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SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT 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	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 17

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
   uint256 c = a + b;
   require(c >= a, "SafeMath: addition overflow");
   return c;
}
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 26

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
25  require(b <= a, errorMessage);
26  uint256 c = a - b;
27  return c;
28  }
29  function mul(uint256 a, uint256 b) internal pure returns (uint256) {
30</pre>
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 33

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
32  }
33  uint256 c = a * b;
34  require(c / a == b, "SafeMath: multiplication overflow");
35  return c;
36  }
37
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 34

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
uint256 c = a * b;
require(c / a == b, "SafeMath: multiplication overflow");
return c;
}
function div(uint256 a, uint256 b) internal pure returns (uint256) {
}
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 42

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
41  require(b > 0, errorMessage);
42  uint256 c = a / b;
43  return c;
44  }
45  }
46
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 137

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
136
137   uint256 public _totalSupply = 1_000_000 * (10 ** _decimals);
138   uint256 public _maxWalletAmount = (_totalSupply * 4) / 100;
139   uint256 public _maxTxAmount = _totalSupply.mul(3).div(100); //3%
140
141
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 137

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
136
137  uint256 public _totalSupply = 1_000_000 * (10 ** _decimals);
138  uint256 public _maxWalletAmount = (_totalSupply * 4) / 100;
139  uint256 public _maxTxAmount = _totalSupply.mul(3).div(100); //3%
140
141
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 138

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
uint256 public _totalSupply = 1_000_000 * (10 ** _decimals);
uint256 public _maxWalletAmount = (_totalSupply * 4) / 100;
uint256 public _maxTxAmount = _totalSupply.mul(3).div(100); //3%
und
umapping (address => uint256) _balances;
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 138

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
uint256 public _totalSupply = 1_000_000 * (10 ** _decimals);
uint256 public _maxWalletAmount = (_totalSupply * 4) / 100;
uint256 public _maxTxAmount = _totalSupply.mul(3).div(100); //3%
und
umapping (address => uint256) _balances;
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 149

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
uint256 marketingFee = 15;
uint256 totalFee = liquidityFee + marketingFee;
uint256 feeDenominator = 100;

151
address public marketingFeeReceiver = 0xdfD89c2933Bd155031E72bBe83d7c9Bf2C12Ad5a;
153
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 158

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
157 bool public swapEnabled = true;
158  uint256 public swapThreshold = _totalSupply / 1000 * 5; // 0.5%
159  bool inSwap;
160  modifier swapping() { inSwap = true; _; inSwap = false; }
161
162
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 158

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
bool public swapEnabled = true;

uint256 public swapThreshold = _totalSupply / 1000 * 5; // 0.5%

bool inSwap;

modifier swapping() { inSwap = true; _; inSwap = false; }

161

162
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 213

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
212 if (recipient != pair && recipient != DEAD) {
213  require(isTxLimitExempt[recipient] || _balances[recipient] + amount <=
   _maxWalletAmount, "Transfer amount exceeds the bag size.");
214  }
215
216  if(shouldSwapBack()){ swapBack(); }
217</pre>
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 310

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
function setWalletLimit(uint256 amountPercent) external onlyOwner {
    _maxWalletAmount = (_totalSupply * amountPercent ) / 1000;
    }
    }
    12
    313
    314
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 310

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 316

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
function maxTxAmount(uint256 amountPercent) external onlyOwner {
    _maxTxAmount = (_totalSupply * amountPercent ) / 1000;
}

function setFee(uint256 _liquidityFee, uint256 _marketingFee) external onlyOwner {
}
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 316

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
function maxTxAmount(uint256 amountPercent) external onlyOwner {
    _maxTxAmount = (_totalSupply * amountPercent ) / 1000;
}

function setFee(uint256 _liquidityFee, uint256 _marketingFee) external onlyOwner {
}
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 322

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- ProTools.sol

```
321 marketingFee = _marketingFee;
322 totalFee = liquidityFee + marketingFee;
323 }
324
325 event AutoLiquify(uint256 amountETH, uint256 amountBOG);
326
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 14

low SEVERITY

The current pragma Solidity directive is ""^0.8.5"". 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

- ProTools.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.5;
library SafeMath {
 function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
}
```



LINE 130

low SEVERITY

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

Source File

- ProTools.sol



LINE 131

low SEVERITY

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

Source File

- ProTools.sol



LINE 141

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

- ProTools.sol

```
140
141 mapping (address => uint256) _balances;
142 mapping (address => mapping (address => uint256)) _allowances;
143
144 mapping (address => bool) isFeeExempt;
145
```



LINE 142

low SEVERITY

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

Source File

- ProTools.sol

```
mapping (address => uint256) _balances;
mapping (address => mapping (address => uint256)) _allowances;
mapping (address => bool) isFeeExempt;
mapping (address => bool) isTxLimitExempt;
mapping (address => bool) isTxLimitExempt;
```



LINE 144

low SEVERITY

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

Source File

- ProTools.sol

```
143
144 mapping (address => bool) isFeeExempt;
145 mapping (address => bool) isTxLimitExempt;
146
147 uint256 liquidityFee = 4;
148
```



LINE 145

low SEVERITY

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

Source File

- ProTools.sol

```
144 mapping (address => bool) isFeeExempt;
145 mapping (address => bool) isTxLimitExempt;
146
147 uint256 liquidityFee = 4;
148 uint256 marketingFee = 15;
149
```



LINE 147

low SEVERITY

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

Source File

- ProTools.sol

```
146
147  uint256 liquidityFee = 4;
148  uint256 marketingFee = 15;
149  uint256 totalFee = liquidityFee + marketingFee;
150  uint256 feeDenominator = 100;
151
```



LINE 148

low SEVERITY

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

Source File

- ProTools.sol

```
147  uint256 liquidityFee = 4;
148  uint256 marketingFee = 15;
149  uint256 totalFee = liquidityFee + marketingFee;
150  uint256 feeDenominator = 100;
151
152
```



LINE 149

low SEVERITY

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

Source File

- ProTools.sol

```
uint256 marketingFee = 15;
uint256 totalFee = liquidityFee + marketingFee;
uint256 feeDenominator = 100;

address public marketingFeeReceiver = 0xdfD89c2933Bd155031E72bBe83d7c9Bf2C12Ad5a;
```



LINE 150

low SEVERITY

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

Source File

- ProTools.sol

```
uint256 totalFee = liquidityFee + marketingFee;
uint256 feeDenominator = 100;

151
address public marketingFeeReceiver = 0xdfD89c2933Bd155031E72bBe83d7c9Bf2C12Ad5a;
153
154
```



LINE 159

low SEVERITY

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

Source File

- ProTools.sol

```
uint256 public swapThreshold = _totalSupply / 1000 * 5; // 0.5%
bool inSwap;
modifier swapping() { inSwap = true; _; inSwap = false; }

constructor () Ownable(msg.sender) {

163
```



LINE 258

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ProTools.sol

```
257 address[] memory path = new address[](2);
258 path[0] = address(this);
259 path[1] = router.WETH();
260
261 uint256 balanceBefore = address(this).balance;
262
```



LINE 259

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ProTools.sol

```
path[0] = address(this);
path[1] = router.WETH();

uint256 balanceBefore = address(this).balance;

262
263
```



LINE 294

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ProTools.sol

```
293  address[] memory path = new address[](2);
294  path[0] = router.WETH();
295  path[1] = address(this);
296
297  router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}()
```



LINE 295

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- ProTools.sol

```
294 path[0] = router.WETH();
295 path[1] = address(this);
296
297 router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(
298 0,
299
```



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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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