



# MetaPionner Token Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
MetaPionner Token	MPI	Binance Smart Chain

## Addresses

Contract address	0x82555cc48a532fa4e2194ab883eb6d465149f80e
Contract deployer address	0x24A193da3efE2404fA2C1c7b0D89Dd90f16443B4

## Project Website

<a href="https://metapi.xyz/">https://metapi.xyz/</a>
---

## Codebase

<a href="https://bscscan.com/address/0x82555cc48a532fa4e2194ab883eb6d465149f80e#code">https://bscscan.com/address/0x82555cc48a532fa4e2194ab883eb6d465149f80e#code</a>
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# SUMMARY

MetaPioneers is an NFTfi project in the Web3 space that combines the power of DeFi & NFTs to create an entertaining DApp earning its users' sustainable yield in perpetuity.

## Contract Summary

### Documentation Quality

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

- The technical description is provided clearly and structured and also don't have any high risk issue.

### Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by MetaPionner Token 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 1075, 1077 and 1079.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 311, 334, 367, 369, 390, 391, 416, 418, 467, 655, 656, 660, 661, 661, 662, 677, 687, 687, 690, 690, 690, 1131 and 1138.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 661, 688, 689, 691, 691, 1132 and 1139.

## CONCLUSION

We have audited the MetaPionner Token project released on November 2022 to discover issues and identify potential security vulnerabilities in MetaPionner Token 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 MetaPionner Token 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.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

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.	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.	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 grieving 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 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	Monday Nov 21 2022 20:01:38 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Nov 22 2022 01:32:17 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	MetaPionnerToken.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

LINE 311

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
310     address owner = _msgSender();
311     _approve(owner, spender, allowance(owner, spender) + addedValue);
312     return true;
313 }
314
315
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 334

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
333     unchecked {  
334         _approve(owner, spender, currentAllowance - subtractedValue);  
335     }  
336  
337     return true;  
338
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 367

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
366     unchecked {  
367         _balances[from] = fromBalance - amount;  
368     }  
369     _balances[to] += amount;  
370  
371
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 369

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
368     }  
369     _balances[to] += amount;  
370  
371     emit Transfer(from, to, amount);  
372  
373
```

# SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 390

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
389
390  _totalSupply += amount;
391  _balances[account] += amount;
392  emit Transfer(address(0), account, amount);
393
394
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 391

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
390     _totalSupply += amount;  
391     _balances[account] += amount;  
392     emit Transfer(address(0), account, amount);  
393  
394     _afterTokenTransfer(address(0), account, amount);  
395
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 416

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
415     unchecked {  
416         _balances[account] = accountBalance - amount;  
417     }  
418     _totalSupply -= amount;  
419  
420
```

# SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 418

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
417     }  
418     _totalSupply -= amount;  
419  
420     emit Transfer(account, address(0), amount);  
421  
422
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 467

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
466     unchecked {  
467         _approve(owner, spender, currentAllowance - amount);  
468     }  
469 }  
470 }  
471
```

# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 655

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
654   while (temp != 0) {  
655     digits++;  
656     temp /= 10;  
657   }  
658   bytes memory buffer = new bytes(digits);  
659
```

## SWC-101 | ARITHMETIC OPERATION "/=" DISCOVERED

LINE 656

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
655     digits++;  
656     temp /= 10;  
657 }  
658 bytes memory buffer = new bytes(digits);  
659 while (value != 0) {  
660
```

# SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 660

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
659   while (value != 0) {  
660     digits -= 1;  
661     buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));  
662     value /= 10;  
663   }  
664
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 661

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
660  digits -= 1;
661  buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
662  value /= 10;
663  }
664  return string(buffer);
665
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 661

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
660     digits -= 1;
661     buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
662     value /= 10;
663 }
664 return string(buffer);
665
```



# SWC-101 | ARITHMETIC OPERATION "/=" DISCOVERED

LINE 662

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
661     buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
662     value /= 10;
663 }
664 return string(buffer);
665 }
666
```

# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 677

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
676 while (temp != 0) {  
677     length++;  
678     temp >>= 8;  
679 }  
680 return toHexString(value, length);  
681
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 687

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
686     function toHexString(uint256 value, uint256 length) internal pure returns (string
memory) {
687     bytes memory buffer = new bytes(2 * length + 2);
688     buffer[0] = "0";
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 687

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
686     function toHexString(uint256 value, uint256 length) internal pure returns (string
memory) {
687     bytes memory buffer = new bytes(2 * length + 2);
688     buffer[0] = "0";
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 690

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691         buffer[i] = _HEX_SYMBOLS[value & 0xf];
692         value >>= 4;
693     }
694
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 690

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691         buffer[i] = _HEX_SYMBOLS[value & 0xf];
692         value >>= 4;
693     }
694
```

# SWC-101 | ARITHMETIC OPERATION "--" DISCOVERED

LINE 690

## low SEVERITY

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

## Source File

- MetaPionnerToken.sol

## Locations

```
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691         buffer[i] = _HEX_SYMBOLS[value & 0xf];
692         value >>= 4;
693     }
694
```

## SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1131

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1130     function setbuyList(address[] memory _buyList) public onlyRole(SUPER) {  
1131         for(uint i=0;i<_buyList.length;i++) {  
1132             buyList[_buyList[i]] = true;  
1133         }  
1134     }  
1135 }
```



## SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1138

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1137     function setsellList(address[] memory _sellList) public onlyRole(SUPER) {  
1138         for(uint i=0;i<_sellList.length;i++) {  
1139             sellList[_sellList[i]] = true;  
1140         }  
1141     }  
1142 }
```

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

LINE 6

### low SEVERITY

The current pragma Solidity directive is `""^0.8.4""`. 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

- MetaPionnerToken.sol

### Locations

```
5 // SPDX-License-Identifier: MIT
6 pragma solidity ^0.8.4;
7
8 // OpenZeppelin Contracts (last updated v4.5.0)
(token/ERC20/extensions/ERC20Burnable.sol)
9
10
```

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

LINE 1075

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1074
1075  bool realBurn;
1076  mapping(address => bool) private  buyList;
1077  bool openbuyList;
1078  mapping(address => bool) private  sellList;
1079
```

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

LINE 1077

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1076 mapping(address => bool) private buyList;  
1077 bool openbuyList;  
1078 mapping(address => bool) private sellList;  
1079 bool opensellList;  
1080  
1081
```

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

LINE 1079

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1078 mapping(address => bool) private sellList;
1079 bool opensellList;
1080
1081 bytes32 public constant EXTERN = bytes32(keccak256(abi.encodePacked("EXTERN")));
1082 bytes32 public constant SUPER = bytes32(keccak256(abi.encodePacked("MPI_SUPER")));
1083
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 661

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
660     digits -= 1;
661     buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
662     value /= 10;
663 }
664 return string(buffer);
665
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 688

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
687 bytes memory buffer = new bytes(2 * length + 2);
688 buffer[0] = "0";
689 buffer[1] = "x";
690 for (uint256 i = 2 * length + 1; i > 1; --i) {
691     buffer[i] = _HEX_SYMBOLS[value & 0xf];
692 }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 689

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
688     buffer[0] = "0";
689     buffer[1] = "x";
690     for (uint256 i = 2 * length + 1; i > 1; --i) {
691         buffer[i] = _HEX_SYMBOLS[value & 0xf];
692         value >>= 4;
693     }
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 691

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
690   for (uint256 i = 2 * length + 1; i > 1; --i) {  
691     buffer[i] = _HEX_SYMBOLS[value & 0xf];  
692     value >>= 4;  
693   }  
694   require(value == 0, "Strings: hex length insufficient");  
695
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 691

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
690   for (uint256 i = 2 * length + 1; i > 1; --i) {  
691     buffer[i] = _HEX_SYMBOLS[value & 0xf];  
692     value >>= 4;  
693   }  
694   require(value == 0, "Strings: hex length insufficient");  
695
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1132

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1131   for(uint i=0;i<_buyList.length;i++) {  
1132     buyList[_buyList[i]] = true;  
1133   }  
1134 }  
1135  
1136
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1139

### low SEVERITY

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

### Source File

- MetaPionnerToken.sol

### Locations

```
1138   for(uint i=0;i<_sellList.length;i++) {  
1139       sellList[_sellList[i]] = true;  
1140   }  
1141   }  
1142  
1143
```

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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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