



# MetaGold Financial Smart Contract Audit Report

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## Disclaimer

## About Us

# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
MetaGold Financial	MGF	Binance Smart Chain

## Addresses

Contract address	0x1f77f06333B89b94389b9214cA476dd5107Af92a
Contract deployer address	0xdF19f7f9c8179dbf73e752DFcFb247ad4232E416

## Project Website

<https://t.me/metagoldrewards>

## Codebase

<https://bscscan.com/address/0x1f77f06333B89b94389b9214cA476dd5107Af92a#code>

# SUMMARY

MetaGold 2.0: The First Digital Gold Certificate of Deposit. MetaGold Financial offers a unique opportunity to experience insane returns with a simple click of a button. This cutting-edge platform, which is the latest iteration of digital gold, provides you with a proven path to high returns on investment. An affiliate program with 10% commission. Stable Coin Staking Utility for income. 75% APY Staking and Blockchain affiliate program.

## Contract Summary

### Documentation Quality

MetaGold Financial 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 MetaGold Financial with the discovery of several low issues.

### Test Coverage

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

## Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 101, 103, 110, 115, 122, 145, 158, 168, 169, 180, 190, 431, 454, 487, 490, 512, 515, 541, 543, 593, 696, 696, 800, 800, 972 and 972.
- 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 855, 856, 857, 901, 902, 903, 986, 987, 988, 1289, 1290, 1302 and 1303.

## CONCLUSION

We have audited the MetaGold Financial project released on January 2023 to discover issues and identify potential security vulnerabilities in MetaGold Financial 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 MetaGold Financial 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, 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.	PASS
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.	PASS
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 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

Started	Sunday Jan 29 2023 12:40:30 GMT+0000 (Coordinated Universal Time)
Finished	Monday Jan 30 2023 23:10:35 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	MetaGold.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-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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



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

LINE 101

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
100 function mul(int256 a, int256 b) internal pure returns (int256) {
101     int256 c = a * b;
102     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
103     require((b == 0) || (c / b == a));
104     return c;
105 }
```

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

LINE 103

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
102   require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
103   require((b == 0) || (c / b == a));
104   return c;
105   }
106
107
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 110

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
109     require(b != -1 || a != MIN_INT256);
110     return a / b;
111 }
112
113
114
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 115

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
114 function sub(int256 a, int256 b) internal pure returns (int256) {
115     int256 c = a - b;
116     require((b >= 0 && c <= a) || (b < 0 && c > a));
117     return c;
118 }
119
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 122

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
121 function add(int256 a, int256 b) internal pure returns (int256) {
122     int256 c = a + b;
123     require((b >= 0 && c >= a) || (b < 0 && c < a));
124     return c;
125 }
126
```



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

LINE 145

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
144 function add(uint256 a, uint256 b) internal pure returns (uint256) {
145     uint256 c = a + b;
146     require(c >= a, "SafeMath: addition overflow");
147
148     return c;
149 }
```

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

LINE 158

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
157   require(b <= a, errorMessage);
158   uint256 c = a - b;
159
160   return c;
161   }
162
```

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

LINE 168

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
167
168  uint256 c = a * b;
169  require(c / a == b, "SafeMath: multiplication overflow");
170
171  return c;
172
```

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

LINE 169

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
168 uint256 c = a * b;
169 require(c / a == b, "SafeMath: multiplication overflow");
170
171 return c;
172 }
173
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 180

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
179     require(b > 0, errorMessage);
180     uint256 c = a / b;
181     return c;
182 }
183
184
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 190

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
189     require(b != 0, errorMessage);
190     return a % b;
191   }
192 }
193
194
```

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

LINE 431

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
430     address owner = _msgSender();
431     _approve(owner, spender, allowance(owner, spender) + addedValue);
432     return true;
433 }
434
435
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 454

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
453     unchecked {  
454         _approve(owner, spender, currentAllowance - subtractedValue);  
455     }  
456  
457     return true;  
458
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 487

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
486     unchecked {
487         _balances[from] = fromBalance - amount;
488         // Overflow not possible: the sum of all balances is capped by totalSupply, and the
sum is preserved by
489         // decrementing then incrementing.
490         _balances[to] += amount;
491     }
```

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

LINE 490

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
489 // decrementing then incrementing.  
490 _balances[to] += amount;  
491 }  
492  
493 emit Transfer(from, to, amount);  
494
```

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

LINE 512

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
511
512  _totalSupply += amount;
513  unchecked {
514    // Overflow not possible: balance + amount is at most totalSupply + amount, which
    is checked above.
515    _balances[account] += amount;
516
```

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

LINE 515

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
514 // Overflow not possible: balance + amount is at most totalSupply + amount, which
is checked above.
515 _balances[account] += amount;
516 }
517 emit Transfer(address(0), account, amount);
518
519
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 541

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
540 unchecked {  
541   _balances[account] = accountBalance - amount;  
542   // Overflow not possible: amount <= accountBalance <= totalSupply.  
543   _totalSupply -= amount;  
544 }  
545
```

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

LINE 543

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
542 // Overflow not possible: amount <= accountBalance <= totalSupply.  
543 _totalSupply -= amount;  
544 }  
545  
546 emit Transfer(account, address(0), amount);  
547
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 593

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
592     unchecked {
593         _approve(owner, spender, currentAllowance - amount);
594     }
595 }
596 }
597
```

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

LINE 696

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
695 uint256 public marketingFee = 10; //1%
696 uint256 public swapTokensAtAmount = 100000 * 10 ** 18;
697 uint256 public burnFee = 10; //1%
698 uint256 public bonusDirectTransaction = 1000; //100%
699 uint256 public bonusSwapTransactionToReferrer = 10; //1%
700
```



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

LINE 696

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
695 uint256 public marketingFee = 10; //1%
696 uint256 public swapTokensAtAmount = 100000 * 10 ** 18;
697 uint256 public burnFee = 10; //1%
698 uint256 public bonusDirectTransaction = 1000; //100%
699 uint256 public bonusSwapTransactionToReferrer = 10; //1%
700
```

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

LINE 800

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
799     _mustDoFee[uniswapV2Pair] = true;
800     _mint(msg.sender, _supply * ( 10 ** decimals()));
801   }
802
803   //to recieve ETH from uniswapV2Router when swapping
804
```

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

LINE 800

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
799     _mustDoFee[uniswapV2Pair] = true;
800     _mint(msg.sender, _supply * ( 10 ** decimals()));
801   }
802
803   //to recieve ETH from uniswapV2Router when swaping
804
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 972

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
971   require(nr > block.timestamp, "Next rebase must be in near future");
972   require(nr < block.timestamp + 7 *lockpayTwentyFourHours, "Next rebase must be
maximum in 7 days");
973   nextLockpayRebase = nr;
974   }
975
976
```

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

LINE 972

## low SEVERITY

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

## Source File

- MetaGold.sol

## Locations

```
971   require(nr > block.timestamp, "Next rebase must be in near future");
972   require(nr < block.timestamp + 7 *lockpayTwentyFourHours, "Next rebase must be
maximum in 7 days");
973   nextLockpayRebase = nr;
974   }
975
976
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 855

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
854 address[] memory path = new address[](2);
855 path[0] = bnb_address;
856 path[1] = meta_address;
857 uint256 minamount = uniswapV2Router.getAmountsOut(msg.value, path)[1];
858 uint256 origAmount = minamount;
859
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 856

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
855 path[0] = bnb_address;  
856 path[1] = meta_address;  
857 uint256 minamount = uniswapV2Router.getAmountsOut(msg.value, path)[1];  
858 uint256 origAmount = minamount;  
859 uint256 reward = minamount.mul(bonusSwapTransactionToReferrer).div(1000);  
860
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 857

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
856 path[1] = meta_address;
857 uint256 minamount = uniswapV2Router.getAmountsOut(msg.value, path)[1];
858 uint256 origAmount = minamount;
859 uint256 reward = minamount.mul(bonusSwapTransactionToReferrer).div(1000);
860 if( referral == msg.sender) {
861
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 901

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
900 address[] memory path = new address[](2);
901 path[0] = bnb_address;
902 path[1] = meta_address;
903 uint256 minamount = uniswapV2Router.getAmountsOut(amount, path)[1];
904
905
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 902

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
901 path[0] = bnb_address;  
902 path[1] = meta_address;  
903 uint256 minamount = uniswapV2Router.getAmountsOut(amount, path)[1];  
904  
905 rewardReferrer = 0;  
906
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 903

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
902 path[1] = meta_address;
903 uint256 minamount = uniswapV2Router.getAmountsOut(amount, path)[1];
904
905 rewardReferrer = 0;
906 if( referral != address(0)) {
907
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 986

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
985     address[] memory path = new address[](2);
986     path[0] = bnb_address;
987     path[1] = meta_address;
988     return uniswapV2Router.getAmountsOut(inAmount, path)[1];
989 }
990
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 987

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
986 path[0] = bnb_address;  
987 path[1] = meta_address;  
988 return uniswapV2Router.getAmountsOut(inAmount, path)[1];  
989 }  
990  
991
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 988

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
987     path[1] = meta_address;  
988     return uniswapV2Router.getAmountsOut(inAmount, path)[1];  
989 }  
990  
991 /**  
992
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1289

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
1288     address[] memory path = new address[](2);
1289     path[0] = address(this);
1290     path[1] = uniswapV2Router.WETH();
1291
1292     uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1293
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1290

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
1289 path[0] = address(this);
1290 path[1] = uniswapV2Router.WETH();
1291
1292 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1293     tokenAmount,
1294
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1302

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
1301     address[] memory path = new address[](2);
1302     path[0] = address(this);
1303     path[1] = uniswapV2Router.WETH();
1304
1305     uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1306
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1303

### low SEVERITY

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

### Source File

- MetaGold.sol

### Locations

```
1302 path[0] = address(this);
1303 path[1] = uniswapV2Router.WETH();
1304
1305 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1306 tokenAmount,
1307
```

# DISCLAIMER

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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.

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.

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## ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.