



FABWELT

# Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
FABWELT	WELT	Polygon Matic

## Addresses

Contract address	0x23e8b6a3f6891254988b84da3738d2bfe5e703b9
Contract deployer address	0x63401aaC2469bfe676D134571dEfe64839c35A61

## Project Website

<https://www.fabwelt.com/>

## Codebase

<https://polygonscan.com/address/0x23e8b6a3f6891254988b84da3738d2bfe5e703b9#code>

# SUMMARY

Fabwelt is a revolutionary concept that brings blockchain technology into the core of high-quality games of all types or genres

## Contract Summary

### Documentation Quality

FABWELT 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 FABWELT 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 124, 156, 179, 180, 215, 251, 489, 490, 491, 491, 492, 493, 494, 609, 611, 626, 627, 628, 789 and 611.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11.
- 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 610, 611, 611, 790, 790, 791 and 792.

## CONCLUSION

We have audited the FABWELT project released on September 2021 to discover issues and identify potential security vulnerabilities in FABWELT 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 satisfactory results with low-risk issues.

The issues found in the FABWELT 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, and out-of-bounds array access which the index access expression can cause an exception in case an invalid array index value is used. Specifying a fixed compiler version is recommended 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.

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

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



# SMART CONTRACT ANALYSIS

Started	Saturday Sep 25 2021 11:08:41 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Sep 26 2021 17:30:50 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	FabweltToken.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

[illegible]

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 124

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
123 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
124     uint256 c = a + b;  
125     require(c >= a, "SafeMath: addition overflow");  
126  
127     return c;  
128 }
```

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

LINE 156

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

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

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

LINE 179

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
178
179  uint256 c = a * b;
180  require(c / a == b, "SafeMath: multiplication overflow");
181
182  return c;
183
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 180

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
179     uint256 c = a * b;  
180     require(c / a == b, "SafeMath: multiplication overflow");  
181  
182     return c;  
183 }  
184
```

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

LINE 215

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
214     require(b > 0, errorMessage);
215     uint256 c = a / b;
216     // assert(a == b * c + a % b); // There is no case in which this doesn't hold
217
218     return c;
219
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 251

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
250     require(b != 0, errorMessage);
251     return a % b;
252 }
253 }
254
255
```



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

LINE 489

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
488  _DECIMALS = _decimals;  
489  _DECIMALFACTOR = 10 ** _DECIMALS;  
490  _tTotal = _supply * _DECIMALFACTOR;  
491  _rTotal = (_MAX - (_MAX % _tTotal));  
492  _TAX_FEE = _txFee* 100;  
493
```

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

LINE 490

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
489  _DECIMALFACTOR = 10 ** _DECIMALS;  
490  _tTotal = _supply * _DECIMALFACTOR;  
491  _rTotal = (_MAX - (_MAX % _tTotal));  
492  _TAX_FEE = _txFee* 100;  
493  _CHARITY_FEE = _charityFee* 100;  
494
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 491

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
490  _tTotal =_supply * _DECIMALFACTOR;  
491  _rTotal = (_MAX - (_MAX % _tTotal));  
492  _TAX_FEE = _txFee* 100;  
493  _CHARITY_FEE = _charityFee* 100;  
494  _STAKE_FEE = _stakeFee* 100;  
495
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 491

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
490  _tTotal =_supply * _DECIMALFACTOR;  
491  _rTotal = (_MAX - (_MAX % _tTotal));  
492  _TAX_FEE = _txFee* 100;  
493  _CHARITY_FEE = _charityFee* 100;  
494  _STAKE_FEE = _stakeFee* 100;  
495
```

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

LINE 492

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
491  _rTotal = (_MAX - (_MAX % _tTotal));  
492  _TAX_FEE = _txFee* 100;  
493  _CHARITY_FEE = _charityFee* 100;  
494  _STAKE_FEE = _stakeFee* 100;  
495  ORIG_TAX_FEE = _TAX_FEE;  
496
```

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

LINE 493

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
492  _TAX_FEE = _txFee* 100;  
493  _CHARITY_FEE = _charityFee* 100;  
494  _STAKE_FEE = _stakeFee* 100;  
495  ORIG_TAX_FEE = _TAX_FEE;  
496  ORIG_CHARITY_FEE = _CHARITY_FEE;  
497
```

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

LINE 494

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
493  _CHARITY_FEE = _charityFee* 100;  
494  _STAKE_FEE = _stakeFee* 100;  
495  ORIG_TAX_FEE = _TAX_FEE;  
496  ORIG_CHARITY_FEE = _CHARITY_FEE;  
497  ORIG_STAKE_FEE = _STAKE_FEE;  
498
```

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

LINE 609

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
608   require(!_isExcluded[account], "Account is already included");
609   for (uint256 i = 0; i < _excluded.length; i++) {
610       if (_excluded[i] == account) {
611           _excluded[i] = _excluded[_excluded.length - 1];
612           _tOwned[account] = 0;
613       }
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 611

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
610     if (_excluded[i] == account) {  
611         _excluded[i] = _excluded[_excluded.length - 1];  
612         _tOwned[account] = 0;  
613         _isExcluded[account] = false;  
614         _excluded.pop();  
615     }
```

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

LINE 626

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
625     require(_txFee < 100 && _stakeFee < 100 && _charityFee < 100);
626     _TAX_FEE = _txFee* 100;
627     _CHARITY_FEE = _charityFee* 100;
628     _STAKE_FEE = _stakeFee* 100;
629     ORIG_TAX_FEE = _TAX_FEE;
630
```

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

LINE 627

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
626  _TAX_FEE = _txFee* 100;
627  _CHARITY_FEE = _charityFee* 100;
628  _STAKE_FEE = _stakeFee* 100;
629  ORIG_TAX_FEE = _TAX_FEE;
630  ORIG_CHARITY_FEE = _CHARITY_FEE;
631
```

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

LINE 628

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
627  _CHARITY_FEE = _charityFee* 100;  
628  _STAKE_FEE = _stakeFee* 100;  
629  ORIG_TAX_FEE = _TAX_FEE;  
630  ORIG_CHARITY_FEE = _CHARITY_FEE;  
631  ORIG_STAKE_FEE = _STAKE_FEE;  
632
```

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

LINE 789

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
788     uint256 tSupply = _tTotal;
789     for (uint256 i = 0; i < _excluded.length; i++) {
790         if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
            (_rTotal, _tTotal);
791         rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792         tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793     }
```

# SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 611

## low SEVERITY

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

## Source File

- FabweltToken.sol

## Locations

```
610     if (_excluded[i] == account) {  
611         _excluded[i] = _excluded[_excluded.length - 1];  
612         _tOwned[account] = 0;  
613         _isExcluded[account] = false;  
614         _excluded.pop();  
615     }
```

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

LINE 11

### low SEVERITY

The current pragma Solidity directive is `""^0.8.2""`. 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

- FabweltToken.sol

### Locations

```
10
11  pragma solidity ^0.8.2;
12
13
14  abstract contract Context {
15
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 610

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
609   for (uint256 i = 0; i < _excluded.length; i++) {  
610     if (_excluded[i] == account) {  
611       _excluded[i] = _excluded[_excluded.length - 1];  
612       _tOwned[account] = 0;  
613       _isExcluded[account] = false;  
614     }
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 611

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
610   if (_excluded[i] == account) {  
611     _excluded[i] = _excluded[_excluded.length - 1];  
612     _tOwned[account] = 0;  
613     _isExcluded[account] = false;  
614     _excluded.pop();  
615
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 611

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
610     if (_excluded[i] == account) {  
611         _excluded[i] = _excluded[_excluded.length - 1];  
612         _tOwned[account] = 0;  
613         _isExcluded[account] = false;  
614         _excluded.pop();  
615     }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {  
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
793   }  
794
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {  
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
793   }  
794
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 791

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
790  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
791  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793  }
794  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 792

### low SEVERITY

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

### Source File

- FabweltToken.sol

### Locations

```
791   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793   }
794   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795   return (rSupply, tSupply);
796
```

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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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