

Pleasure Coin

Smart Contract

Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Pleasure Coin	NSFW	Binance Smart Chain	

Addresses

Contract address	0xaa076b62efc6f357882e07665157a271ab46a063	
Contract deployer address	0x129F027a491D96aBCeD68cC30976797a42987303	

Project Website

https://www.pleasurecoin.com/

Codebase

https://bscscan.com/address/0xaa076b62efc6f357882e07665157a271ab46a063#code



SUMMARY

Pleasure Coin (NSFW) is an ERC-20 token on the Polygon chain that will be utilized within the Pleasure Network, an adult industry ecosystem that empowers individuals and businesses.

Contract Summary

Documentation Quality

Pleasure Coin 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 Pleasure Coin 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 310, 329, 351, 384, 386, 407, 408, 433 and 435.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 13, 98, 128, 155, 512 and 536.



CONCLUSION

We have audited the NamaFile project released on January 2023 to discover issues and identify potential security vulnerabilities in NamaFile 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 NamaFile 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 in floating pragma are set. 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.		
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.	PASS	
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.	
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.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
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	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/.	
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.	
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.	orce RTL text rendering and confuse users as 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	Tuesday Jan 24 2023 02:15:24 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Jan 25 2023 09:48:17 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	StandardERC20.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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged



SWC-103 A FLOATING PRAGMA IS SET. low acknowledged



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 310

low SEVERITY

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

Source File

- StandardERC20.sol

```
309 unchecked {
310 _approve(sender, _msgSender(), currentAllowance - amount);
311 }
312
313 return true;
314
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 329

low SEVERITY

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

Source File

- StandardERC20.sol



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 351

low SEVERITY

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

Source File

- StandardERC20.sol

```
350 unchecked {
351 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
352 }
353
354 return true;
355
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 384

low SEVERITY

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

Source File

- StandardERC20.sol



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 386

low SEVERITY

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

Source File

- StandardERC20.sol

```
385  }
386  _balances[recipient] += amount;
387
388  emit Transfer(sender, recipient, amount);
389
390
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 407

low SEVERITY

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

Source File

- StandardERC20.sol

```
406
407 _totalSupply += amount;
408 _balances[account] += amount;
409 emit Transfer(address(0), account, amount);
410
411
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 408

low SEVERITY

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

Source File

- StandardERC20.sol

```
407  _totalSupply += amount;
408  _balances[account] += amount;
409  emit Transfer(address(0), account, amount);
410
411  _afterTokenTransfer(address(0), account, amount);
412
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 433

low SEVERITY

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

Source File

- StandardERC20.sol

```
432 unchecked {
433   _balances[account] = accountBalance - amount;
434  }
435   _totalSupply -= amount;
436
437
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 435

low SEVERITY

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

Source File

- StandardERC20.sol

```
434 }
435 _totalSupply -= amount;
436
437 emit Transfer(account, address(0), amount);
438
439
```



LINE 13

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
12
13 pragma solidity ^0.8.0;
14
15 /**
16 * @dev Interface of the ERC20 standard as defined in the EIP.
17
```



LINE 98

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
97

98 pragma solidity ^0.8.0;

99

100

101 /**

102
```



LINE 128

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
127
128 pragma solidity ^0.8.0;
129
130 /**
131 * @dev Provides information about the current execution context, including the
132
```



LINE 155

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
154
155 pragma solidity ^0.8.0;
156
157
158
159
```



LINE 512

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
511
512 pragma solidity ^0.8.0;
513
514
515 /**
516
```



LINE 536

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardERC20.sol

```
535  // File: contracts/token/ERC20/StandardERC20.sol
536  pragma solidity ^0.8.0;
537
538  /**
539  * @title StandardERC20
540
```



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