Assure Defi® THE VERIFICATION GOLD STANDARD



Security Assessment

BloxSIM

Date: 08/10/2024

Audit Status: PASS

Audit Edition: Advanced





Risk Analysis

Vulnerability summary

Classification	Description
High	High-level vulnerabilities can result in the loss of assets or manipulation of data.
Medium	Medium-level vulnerabilities can be challenging to exploit, but they still have a considerable impact on smart contract execution, such as allowing public access to critical functions.
Low	Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored.
Informational	Informational vulnerabilities, code style violations, and informational statements do not affect smart contract execution and can typically be disregarded.

Executive Summary

According to the Assure assessment, the Customer's smart contract is **Secured.**

Insecure	Poorly Secured	Secured	Well Secured

Scope

Target Code And Revision

For this audit, we performed research, investigation, and review of the BloxSIM contracts followed by issue reporting, along with mitigation and remediation instructions outlined in this report.

Target Code And Revision

Project	Assure
Language	Solidity
Codebase	https://etherscan.io/token/0xeaebb6cd3a1f9b9 cad725d0189ba5bfea25a9d76#code
Audit Methodology	Static, Manual

Attacks made to the contract

In order to check for the security of the contract, we tested several attacks in order to make sure that the contract is secure and follows best practices.

Category	Item
Code review & Functional Review	 Compiler warnings. Race conditions and Reentrancy. Cross-function race conditions. Possible delays in data delivery. Oracle calls. Front running. Timestamp dependence. Integer Overflow and Underflow. DoS with Revert. DoS with block gas limit. Methods execution permissions. Economy model. Private user data leaks. Malicious Event log. Scoping and Declarations. Uninitialized storage pointers. Arithmetic accuracy. Design Logic. Cross-function race conditions. Safe Zeppelin module. Fallback function security. Overpowered functions / Owner privileges

AUDIT OVERVIEW



No high severity issues were found.



1. Incorrect Fee Application in transfer() Function [ACKNOWLEDGED]

Function: transfer()

Issue: Normal wallet-to-wallet transfers are charged fees if _contractCount == 0, meaning if no buy has occurred, fees are always applied during standard transfers.

Recommendation: Modify the logic to apply fees only when the from or to address is the uniswapV2Pair address.

Improvement: Documentation has been updated to explain how the fees work.



1. Missing Setter for bots Mapping Preventing Address Blacklisting [MITIGATED [V]]

Variable: mapping (address => bool) private bots

Issue: The contract lacks functionality to blacklist addresses due to the absence of a setter for the bots mapping.

Recommendation: Implement a setter function for the bots mapping to allow address blacklisting.

Fix: Contract is deployed and bot prevention was only available during the first blocks.



No Informational severity issues were found.

Testing coverage

During the testing phase, custom use cases were written to cover all the logic of contracts. *Check "Annexes" to see the testing code.

BloxSIM contracts tests:

```
contract: BloxSIM - 70.6%
BloxSIM.clearStuckEther - 100.0%
BloxSIM.rescueERC20 - 100.0%
BloxSIM.rescueEther - 100.0%
BloxSIM.setFeeTx - 100.0%
Ownable._checkOwner - 100.0%
BloxSIM.clearStuckBalance - 91.7%
BloxSIM._approve - 75.0%
SafeMath.add - 75.0%
SafeMath.div - 75.0%
SafeMath.sub - 75.0%
BloxSIM._transfer - 70.4%
SafeMath.mul - 58.3%
```

```
tests/test_blox.py::test_transfer RUNNING
Transaction sent: 0x56c2541f92aa306f1209baae3a840ab2c1dffc89c2598d908a5bfac69cac914d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
WETH9.constructor confirmed Block: 8 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x9E4c14403d7d9A8A782044E86a93CAE0907B2ac9
Transaction sent: 0xa631e8c29bda874e2ef287747e0dbfa547eebc9b053b4c979fc4a8e4d57ae00e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
UniswapV2Factory.constructor confirmed Block: 9 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xcCB53c9429d32594F404d01fbe9E65ED1DCda8D9
  Fransaction sent: 0x821fffde57cb491817defa1b492304e3c45333d9e2fa1312b7e048819f82c405
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
UniswapV2Router02.constructor confirmed Block: 10 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x420b109989eF5baba6D92029594eF45E19A04A4A
Transaction sent: 0x1bbbb287501c155c9eb4fc00600cdc3f3fa16d22b5d4f41ce37f31ed39d2c27c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
UniswapV2AddLiquidity.constructor confirmed Block: 11 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0xa3853dDCd2E3fC28e8E130288F2aB08d5EE37472
Transaction sent: 0x1el3ec40af833425ad4db66d87d3471959ee6e479ced6f4858def7cle9del9a6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
BloxSIM.constructor confirmed Block: 12 Gas used: 3883859 (32.37%)
BloxSIM deployed at: 0xb6286fAFd0451320ad6A8143089b216C2152c025
 Transaction sent: 0xa77e6blle014a98674aac9c67a50a6b4491d7fda7e428c12f0b320c917e5e7c9
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
BloxSIM.transfer confirmed (ERC20: transfer from the zero address) Block: 13 Gas used: 22149 (0.18%)
 Transaction sent: 0x073b20dd91c404ab0643c9b5f45159d62bee21944904b9de355390ea484f8af8
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
BloxSIM.transfer confirmed (ERC20: transfer to the zero address) Block: 14 Gas used: 21944 (0.18%)
Transaction sent: 0x4a02d34a860c9d0d6faee40fa7b9ec32f0283ball12e2dfb4365949e5c505ff2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
BloxSIM.transfer confirmed (Transfer amount must be greater than zero) Block: 15 Gas used: 22159 (0.18%)
 Transaction sent: 0x21f8328f835532e27db7c09cdeeda8381fedf8004b203825d90b4b892c15938f
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
BloxSIM.transfer confirmed Block: 16 Gas used: 52787 (0.44%)
 Transaction sent: 0xb6010e53cb82637bac6822610ac2f7ca07c9bd2b19f0bbea932656fd4f18547d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
BloxSIM.transfer confirmed Block: 17 Gas used: 87362 (0.73%)
Transaction sent: 0xe7d6bd47b5594ld3c92bddc1529304a9459fa3512f15ef4eac65d37ca190ac54
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
BloxSIM.transfer confirmed Block: 18 Gas used: 76157 (0.63%)
 Transaction sent: 0xfd10c15b825d14b1e958c5bb32d511ab5eaa381b01b0b9442a29aeb3d6ab862f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
BloxSIM.transfer confirmed (Exceeds the _maxTxAmount.) Block: 19 Gas used: 3370
                                                                                                                    t.) Block: 19 Gas used: 33787 (0.28%)
 Transaction sent: 0x150d76049353d45046c9d28bff492964efdf0el6f9306d462c3e81518bb76943
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
BloxSIM.transfer confirmed (Exceeds the maxWalletSize.) Block: 20 Gas used: 35593 (0.30%)
Transaction sent: 0x8ed2445c1bc0c5d23cbf402d03dbede712764bacec93714354bf402750f0fe48
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
BloxSIM.transfer confirmed Block: 21 Gas used: 85558 (0.71%)
 Transaction sent: 0xe71794427732bd69fe2029fda5443e69810399c81175af2945fc50696588fd9c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
BloxSIM.transfer confirmed Block: 22 Gas used: 47786 (0.40%)
tests/test_blox.pv::test_transfer_PASSED
```

```
tests/test_blox.py::test_clear_stuck_balance RUNNING
Transaction sent: 0x245e15b53adc2f3c22cd4f9070e200886fced164d8648a6d5b0935eaefb2f845
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
WETH9.constructor confirmed Block: 23 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x2c15A315610Bfa5248E4CbCbd693320e9D8E03Cc
Transaction sent: 0xb04371b84b89d55c174637daa0b3d2c9a644c08295f9716c6d24bbcc929bf553
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
UniswapV2Factory.constructor confirmed Block: 24 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xe692Cf21B12e0B2717C4bF647F9768Fa58861c8b
Transaction sent: 0x15492ca0a86b385d7018462c011436f1ed1baaabe57e89a7f3d12da9c2cda6ee
   Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 14
UniswapV2Router02.constructor confirmed Block: 25 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xe65A7a341978d59d40d30FC23F5014FACB4f575A
Transaction sent: 0xf4ef4f26a548eadc39a877d04e5e91405435aa784ee4646ee23elcc9f8ddf2da
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
UniswapV2AddLiquidity.constructor confirmed Block: 26 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0x303758532345801cB8c2AD12541b09E9Aa53A93d
Transaction sent: 0x5eaef962d32bd79a6le5a6ae3fb83aa102da832c4147924b392cdd43eb98888f
   Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 16
BloxSIM.constructor confirmed Block: 27 Gas used: 3883849 (32.37%)
BloxSIM deployed at: 0x26f15335B81C6a4C0B660eDd694a0555A9F1cce3
Transaction sent: 0x364980298c277dlce3e9ff530d4333756bd713703a4d91bb4fd234b270370fa0
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
BloxSIM.clearStuckBalance confirmed (reverted) Block: 28 Gas used: 22151 (0.18%)
Transaction sent: 0x4838dc1005846f8676efef7e179bbd58ddfb5e2c6c4ae23e3633ff37a9afefee
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
BloxSIM.clearStuckBalance confirmed Block: 30 Gas used: 31419 (0.26%)
Transaction sent: 0x52bf899c146f51ff7c8e36865acalac3830f2c50404ce00218676931178f1cde
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
BloxSIM.transfer confirmed Block: 31 Gas used: 52775 (0.44%)
Transaction sent: 0x6ba8c9e5ac27b943ce1752ec0lb06bafa57dfa74465f72le33e4d335477a4487
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
WETH9.deposit confirmed Block: 32 Gas used: 43706 (0.36%)
 Transaction sent: 0x0536a0e733c29affb36b2f8025ba2e83907c2be817b031b2771d237cf36fa717
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
WETH9.approve confirmed Block: 33 Gas used: 43962 (0.37%)
Transaction sent: 0x0423741bde7e68acfddff5e5550dc812acc3afd2eaf71f13042775aa01d37f3a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
BloxSIM.approve confirmed Block: 34 Gas used: 44145 (0.37%)
Transaction sent: 0xad7cf9140c08af099945a272lc317aelca55e72ca43b169a01797ba2365d6elc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
UniswapVZAddLiquidity.addLiquidity confirmed Block: 35 Gas used: 296168 (2.47%)
 Transaction sent: 0xb248cb83b5bc5c22536ce2694dbc57e4c4abd96ab4a9eb035e2bab4006fb9726
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
BloxSIM.clearStuckBalance confirmed Block: 36 Gas used: 157811 (1.32%)
tests/test_blox.pv::test_clear_stuck_balance_PASSED
```

```
tests/test_blox.py::test_clear_stuck_eth RUNNING
Transaction sent: 0x7c3lea61f6645598dc4a50199255c9f59757bd9ebbd4f6dff1762e80b0e96898
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
WETH9.constructor confirmed Block: 37 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xD22363efee93190f82b52FCD62B7Dbcb920eF658
Transaction sent: 0x6482ccb309d8la0bdb2la38ec3f502c0ec49edcd2c5laeca342c38da606c4498
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
UniswapV2Factory.constructor confirmed Block: 38 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x401B781ce5988C184F63B99D39d6719A522f46B5
 Transaction sent: 0xe561670449905284e792d651381ea97d59675f2c6e6767e695a272c8f1fdc10f
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 24
UniswapV2Router02.constructor confirmed Block: 39 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xf9C8Cf55f2E520B08d869df7bc76aa3d3ddDF913
                                                              de362d9d759d763098d0cbdlefb27607a9c9265efcd70e36bae7l
 Transaction sent: 0x54a53b166db
    Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 25
BloxSIM.constructor confirmed Block: 40 Gas used: 3883849 (32.37%)
BloxSIM deployed at: 0x654f70d8442EA18904FA1AD79114f7250F7E9336
 Transaction sent: 0x2c34441e2bae50b8cbf8139c0af677a5821b9aaa1876ff526d1cac63498953d6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
BloxSIM.clearStuckEther confirmed (reverted) Block: 41 Gas used: 22150 (0.18%)
 Transaction sent: 0x0a6c9e647b353861a80a9040077a742934ac9598fc73333a0b2c252968f7fd40
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
BloxSIM.clearStuckEther confirmed Block: 42 Gas used: 23806 (0.20%)
 tests/test_blox.py::test_clear_stuck_eth PASSED
tests/test_blox.py::test_rescue_eth RUNNING
Transaction sent: 0x974ec6343903bdf017e5928b71bb193d6fa7a88821678cceb3df842b26f65593
    WETH9 deployed at: 0xADeD61D42dE86f9058386D1D0d739d20C7eAfC43
Transaction sent: 0xcd7d973dc9e861b0255adec5cf9926845a83885b070f34bc374a107761cc45ed
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 27
UniswapV2Factory.constructor confirmed Block: 44 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x832698Daec363C9A7aB036C224Af5B21280b3AC6
 Transaction sent: 0x6868f6affb7e353ccbaa0feec339d97ae2bale0e9c050c760c2b4fdcb397dce5
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 28
UniswapV2Router02.constructor confirmed Block: 45 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xA95916C3D979400C7443961330b3092510a229Ba
 Transaction sent: 0x4df8d060d97538baa5e0e367c5b154d359c0b150675054a6b4becf0bc2f2ea2f
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 29
BloxSIN.constructor confirmed Block: 46 Gas used: 3883849 (32.37%)
BloxSIM deployed at: 0x42E8D004c84E6B5Bad559D3b5CE7947AADb9E0bc
 Transaction sent: 0x56a742de79e6260a66472lcfc37374f3afc3988039ffe1601119dcd66fc5d0e4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
BloxSIM.rescueEther confirmed (reverted) Block: 47 Gas used: 22174 (0.18%)
 Transaction sent: 0x50d0a816ec6d7dd6590b973867beec27e9455d1500ble9b68eb3b500a12cfe10
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
BloxSIM.rescueEther confirmed Block: 48 Gas used: 23793 (0.20%)
tests/test_blox.py::test_rescue_eth PASSED
  ests/test_blox.py::test_rescue_erc20 RUNN
Transaction sent: 0x5329bbbd530d00daf76db347l1346117099b808c334e949e57854fe31139dc24
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 30
WETH9.constructor confirmed Block: 49 Gas used: 476546 (3.97%)
```

```
Transaction sent: 0x5329bbbd530d00daf76db34711346117099b808c334e949e57854fe31139dc24
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 30
WETH9.constructor confirmed Block: 49 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xF06D5f5BfFFCB6a52c84cfebc03AD35637728E73

Transaction sent: 0x1936361833c1428d263c40d659877da3611233ec668080c26df6020258f56d73
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 31
UniswapV2Factory.constructor confirmed Block: 50 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x82c83b7f88aef2eD99d4869D547b6ED28e69C8df

Transaction sent: 0x89e8db818fccd2847a3bcf454ff00ccf44a8c58b61527ba6575a8c195b4dc431
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 32
UniswapV2Router02.constructor confirmed Block: 51 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x724Ca58E1e6e648FB1E15d7Eec0fe1E5f581c7bD

Transaction sent: 0x8818bc09f6e8ef7f50e937ac437b20f4880df8e2b8da7d2d524be20178a3ea9a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 33
BloxSIM.constructor confirmed Block: 52 Gas used: 3883849 (32.37%)
BloxSIM deployed at: 0x34b97ffa01dc00C959c5f1176273D0de3be914Cl

Transaction sent: 0x2ba0aacea597d060013fb0b62ed25a5f409f49028a9ee4f0d0bd8fa1d8daf2dc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
BloxSIM.rescueERC20 confirmed Block: 54 Gas used: 52775 (0.44%)

Transaction sent: 0xcc32b87ba3438f6db80f4c32cde5f721e415aa5684db99e9773b7018ed099b6d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 34
BloxSIM.transfer confirmed Block: 54 Gas used: 52775 (0.44%)

Transaction sent: 0x87b5a47adlefd74ced8b8ae04cc654ac4acle07c7477aee6996a66fbcdlaee6b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
BloxSIM.rescueERC20 confirmed Block: 55 Gas used: 71282 (0.59%)

tests/test_blox.py::test_rescue_erc20 PASSED
```

Annexes

Testing code:

Testing_BloxSIM:

```
from brownie import (
    reverts,
    accounts
from scripts.helpful_scripts import (
    ZERO_ADDRESS,
    get_account,
from scripts.deploy import (
    deploy_weth,
    deploy_factory,
    deploy_router,
    deploy_liquidity,
    deploy_blox
def test_set_fee(only_local):
    # Arrange
   owner = get_account(0)
    other = get_account(1)
    weth = deploy_weth(owner)
```

```
factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_blox(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.setFeeTx(1, {"from": other})
   with reverts("Tax cannot exceed 5"):
        token.setFeeTx(6, {"from": owner})
   token.setFeeTx(1, {"from": owner})
def test_transfer(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   weth = deploy_weth(owner)
   factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   liquidity = deploy_liquidity(owner, factory.address, router.address)
   token = deploy_blox(owner, router.address)
   pair = factory.getPair(token.address, weth.address)
   with reverts("ERC20: transfer from the zero address"):
        token.transfer(other, 1e9, {"from": ZERO_ADDRESS})
   with reverts("ERC20: transfer to the zero address"):
        token.transfer(ZERO_ADDRESS, 1e9, {"from": other})
   with reverts("Transfer amount must be greater than zero"):
```

```
token.transfer(extra, 0, {"from": other})
tx = token.transfer(other, 5e9, {"from": owner})
assert tx.events['Transfer'][0]['from'] == owner
assert tx.events['Transfer'][0]['to'] == other
assert tx.events['Transfer'][0]['value'] == 5e9
# applies 20% fee
tx = token.transfer(extra, 1e9, {"from": other})
assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == extra
assert tx.events['Transfer'][1]['value'] == 0.8e9
# sell -> applies 25% fee
tx = token.transfer(pair, 2e9, {"from": other})
assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == pair
assert tx.events['Transfer'][1]['value'] == 1.5e9
with reverts("Exceeds the _maxTxAmount."):
    token.transfer(extra, 1000001e9, {"from": pair})
with reverts("Exceeds the maxWalletSize."):
    token.transfer(extra, 1000000e9, {"from": pair})
tx = token.transfer(other, 1e9, {"from": pair})
assert tx.events['Transfer'][1]['from'] == pair
assert tx.events['Transfer'][1]['to'] == other
```

```
assert tx.events['Transfer'][1]['value'] == 0.8e9
   # contactCount > 1 = applies _caTax = 0 %
   tx = token.transfer(extra, 1e9, {"from": other})
   assert tx.events['Transfer'][0]['from'] == other
   assert tx.events['Transfer'][0]['to'] == extra
   assert tx.events['Transfer'][0]['value'] == 1e9
def test_clear_stuck_balance(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   tax_wallet = accounts.at('0x71ECAf3dca7f85B8739f0E9B8e9A99e55d82e70E', force=True)
   weth = deploy_weth(owner)
   factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   liquidity = deploy_liquidity(owner, factory.address, router.address)
   token = deploy_blox(owner, router.address)
   with reverts():
        token.clearStuckBalance({"from": other})
   # send some eth
   other.transfer(token.address, "1 ether")
   token.clearStuckBalance({"from": tax_wallet})
   token.transfer(token.address, 1e9, {"from": owner})
```

```
weth.deposit({"from": owner, "value": 10e9})
   weth.approve(liquidity.address, 100e9, {"from": owner})
   token.approve(liquidity.address, 100e9, {"from": owner})
   liquidity.addLiquidity(token.address, weth.address, 1000e6, 1e9, {"from": owner})
   token.clearStuckBalance({"from": tax wallet})
def test_clear_stuck_eth(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   tax_wallet = accounts.at('0x71ECAf3dca7f85B8739f0E9B8e9A99e55d82e70E', force=True)
   weth = deploy_weth(owner)
   factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_blox(owner, router.address)
   with reverts():
        token.clearStuckEther({"from": other})
   token.clearStuckEther({"from": tax_wallet})
def test_rescue_eth(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   tax_wallet = accounts.at('0x71ECAf3dca7f85B8739f0E9B8e9A99e55d82e70E', force=True)
```

```
weth = deploy_weth(owner)
   factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_blox(owner, router.address)
   with reverts():
        token.rescueEther({"from": other})
   token.rescueEther({"from": tax_wallet})
def test_rescue_erc20(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   tax_wallet = accounts.at('0x71ECAf3dca7f85B8739f0E9B8e9A99e55d82e70E', force=True)
   weth = deploy_weth(owner)
   factory = deploy_factory(owner, owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_blox(owner, router.address)
   with reverts():
        token.rescueERC20(token.address, 1e9, {"from": other})
   token.transfer(token.address, 1e9, {"from": owner})
   token.rescueERC20(token.address, 1e9, {"from": tax_wallet})
```

Technical Findings Summary

Findings

Vulnerability Level	Total	Pending	Not Apply	Acknowledged	Mitigated	Fixed
High						
Medium	2			1		
Low	1				1	
Informational	0					

Assessment Results

Score Results

Review	Score
Global Score	85/100
Assure KYC	Pending
Audit Score	85/100

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below. The Global Score is a combination of the evaluations obtained between having or not having KYC and the type of contract audited together with its manual audit.

Audit PASS

Following our comprehensive security audit of the token contract for BloxSIM project, we inform you that the project has met the necessary security standards.

Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocating for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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