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KYC & AUDIT.

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CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS



Fandora Network

Audit Passed

10/14/2022

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Audit Summary

This report has been prepared for Fandora Network on the BSC network. Novos provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.



Project Overview

Parameter	Result
Address	0xbAa88EC0D95c12651B728c76742e70d670E3E556
Name	Fandora Network
Token Tracker	FAN
Decimals	18
Supply	1
Platform	BSC
Compiler	v0.8.2+commit.661d1103
Optimization	Yes with 200 runs
Other Settings:	default evmVersion
Language	Solidity
Codebase	https://bscscan.com/address/0xbAa88EC0D95c12651B728c76742e70d670E3E556#code
Url	https://fandora.network/

Main Contract Assessed

Name	Contract	Live
FAN	0xbAa88EC0D95c12651B728c76742e70d670E3E556	Yes



Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
❖ Unencrypted Private Data On-Chain	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Code With No Effects	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Message call with hardcoded gas amount	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Hash Collisions With Multiple Variable Length Arguments	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unexpected Ether balance	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Presence of unused variables	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Right-To-Left-Override control character (U+202E)	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Typographical Error	✓ Complete	✓ Complete	✓ Low / No Risk
❖ DoS With Block Gas Limit	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Arbitrary Jump with Function Type Variable	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Insufficient Gas Griefing	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Incorrect Inheritance Order	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Write to Arbitrary Storage Location	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Requirement Violation	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Missing Protection against Signature Replay Attacks	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Weak Sources of Randomness from Chain Attributes	✓ Complete	✓ Complete	✓ Low / No Risk





Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
❖ Authorization through tx.origin	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Delegatecall to Untrusted Callee	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Use of Deprecated Solidity Functions	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Assert Violation	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Reentrancy	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unprotected SELFDESTRUCT Instruction	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unprotected Ether Withdrawal	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Unchecked Call Return Value	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Outdated Compiler Version	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Integer Overflow and Underflow	✓ Complete	✓ Complete	✓ Low / No Risk
❖ Function Default Visibility	✓ Complete	✓ Complete	✓ Low / No Risk





Contract Ownership

The contract ownership of Pandora Network is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

01

The current owner is the address `0xE5023364b6f5571B1951FE9fCEc2E5511C811c8B` which can be viewed from: [HERE](#)

02

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

03

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Important Notes To The Users:



01

This abstract contract provides a fallback function that delegates all calls to another contract using the EVM instruction `delegatecall`. We refer to the second contract as the `_implementation_` behind the proxy, and it has to be specified by overriding the virtual `{_implementation}` function.

02

<https://eips.ethereum.org/EIPS/eip-1884> [EIP1884] increases the gas cost of certain opcodes, possibly making contracts go over the 2300 gas limit imposed by `transfer`, making them unable to receive funds via `transfer`. `{sendValue}` removes this limitation.

03

Perform beacon upgrade with additional setup call. Note: This upgrades the address of the beacon, it does not upgrade the implementation contained in the beacon (see `{UpgradeableBeacon-_setImplementation}` for that). Emits a `{BeaconUpgraded}` event.

04

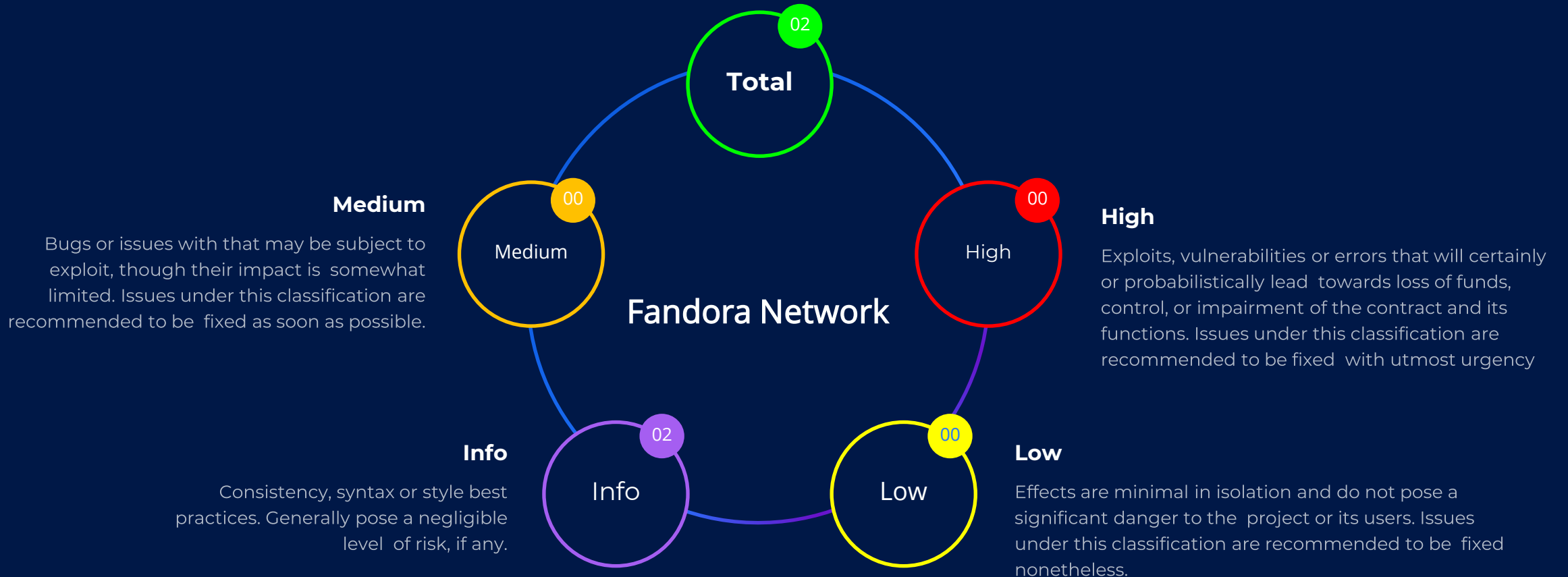
This contract implements an upgradeable proxy. It is upgradeable because calls are delegated to an implementation address that can be changed. This address is stored in storage in the location specified by <https://eips.ethereum.org/EIPS/eip-1967> [EIP1967], so that it doesn't conflict with the storage layout of the implementation behind the proxy.

Technical Findings Summary

Classification of Issues

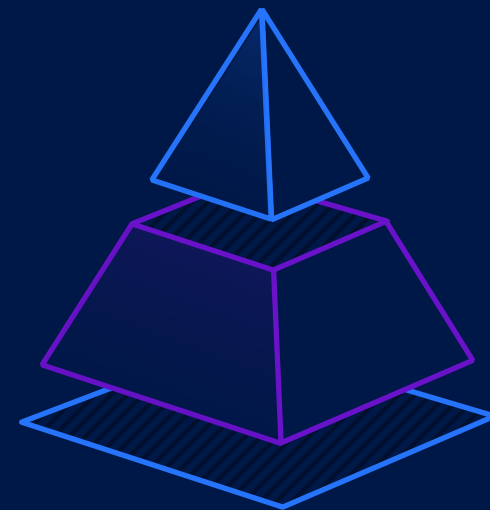
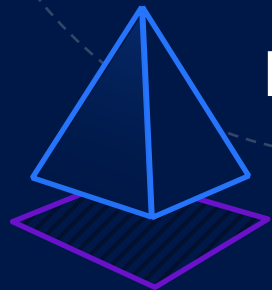
Total

What you should pay attention to



Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	FAN	Functions: size, getKeyAtIndex, getIndexOfKey

Description

Gas Optimization. Public function that could be declared external

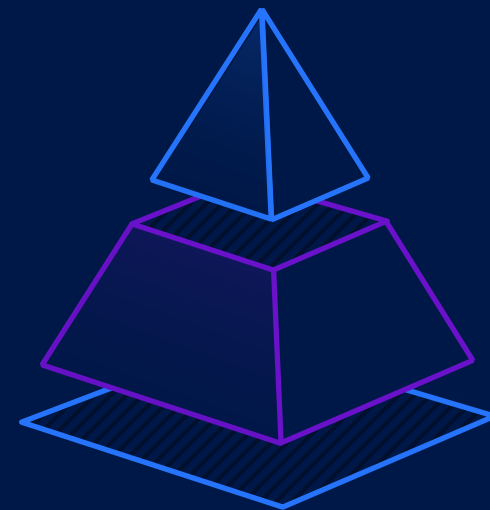
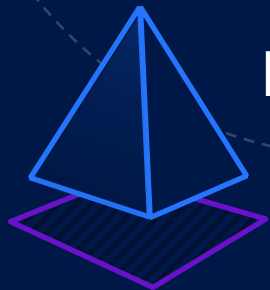
Recommendation

Public functions that are never called by the contract should be declared external to save gas.



Findings

Missing events arithmetic



ID	Severity	Contract	Function
02	Informational	FAN	Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.

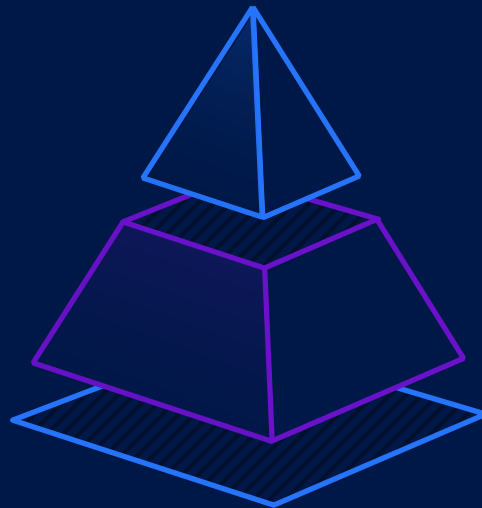


Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	<ul style="list-style-type: none">▪ none	<ul style="list-style-type: none">▪ external
✓ transferOwnership	<ul style="list-style-type: none">▪ address newOwner	<ul style="list-style-type: none">▪ public
✓ prepareForPartnerOrExchangeListing	<ul style="list-style-type: none">▪ address_partnerOrExchangeAddress	<ul style="list-style-type: none">▪ external
✓ setWalletBalance	<ul style="list-style-type: none">▪ uint256 _maxWalletBalance	<ul style="list-style-type: none">▪ external
✓ setMaxBuyTransaction	<ul style="list-style-type: none">▪ uint256 _maxTxn	<ul style="list-style-type: none">▪ external
✓ setMaxSellTransaction	<ul style="list-style-type: none">▪ uint256 _maxTxn	<ul style="list-style-type: none">▪ external
✓ updateBusdDividendToken	<ul style="list-style-type: none">▪ address _newContract	<ul style="list-style-type: none">▪ external
✓ updateMarketingWallet	<ul style="list-style-type: none">▪ address _newWallet	<ul style="list-style-type: none">▪ external
✓ setSwapTokensAtAmount	<ul style="list-style-type: none">▪ uint256 _swapAmount	<ul style="list-style-type: none">▪ external
✓ setSellTransactionMultiplier	<ul style="list-style-type: none">▪ uint256 _multiplier	<ul style="list-style-type: none">▪ external
✓ setTradingIsEnabled	<ul style="list-style-type: none">▪ none	<ul style="list-style-type: none">▪ external
✓ setBusdDividendEnabled	<ul style="list-style-type: none">▪ bool _enabled	<ul style="list-style-type: none">▪ external
✓ setMarketingEnabled	<ul style="list-style-type: none">▪ bool _enabled	<ul style="list-style-type: none">▪ external
✓ setSwapAndLiquifyEnabled	<ul style="list-style-type: none">▪ bool _enabled	<ul style="list-style-type: none">▪ external
✓ updatebusdDividendTracker	<ul style="list-style-type: none">▪ address newAddress	<ul style="list-style-type: none">▪ external
✓ updateUniswapV2Router	<ul style="list-style-type: none">▪ address newAddress	<ul style="list-style-type: none">▪ external

Privileged Functions (onlyOwner & Others)

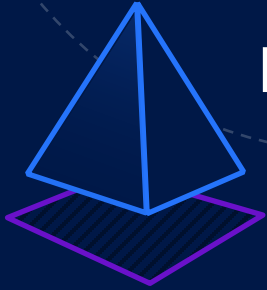
Function Name	Parameters	Visibility
✓ <code>excludeFromFees</code>	▪ <code>address account, bool excluded</code>	▪ public
✓ <code>excludeFromDividend</code>	▪ <code>address account</code>	▪ public
✓ <code>setAutomatedMarketMakerPair</code>	▪ <code>address pair, bool value</code>	▪ external
✓ <code>updateGasForProcessing</code>	▪ <code>uint256 newValue</code>	▪ external
✓ <code>updateMinimumBalanceForDividends</code>	▪ <code>uint256 newMinimumBalance</code>	▪ external
✓ <code>updateClaimWait</code>	▪ <code>uint256 claimWait</code>	▪ external
✓ <code>processDividendTracker</code>	▪ <code>uint256 gas</code>	▪ external





Statistics

Liquidity Info



Parameter	Result
Pair Address	-
FAN Reserves	0 FAN
Reserves, BSC	0 -
Liquidity Value	\$ 0



Statistics

Token (FAN) Holders Info

Parameter	Result
FAN Percentage Burnt	0 %
FAN Amount Burnt	0 FAN
Top 10 Percentage Own	100 %
Top 10 Amount Owned	1 FAN



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