

Smart contracts security assessment

Final report

[ariff: Standar

Solanex

October 2024





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□ Introduction

The report has been prepared for **Solanex**.

Solanex (SOLDEX) is an ERC-20 standard token with <u>ERC20Burnable</u> and <u>ERC20Permit</u> extensions made by OpenZeppelin. The token has no mint functionality, no taxes.

The contract is available at oxoba6045AAC529379Ed24bdc05D0087CbD38FdBAB in the BNB Smart Chain.

Name	Solanex
Audit date	2024-10-02 - 2024-10-10
Language	Solidity
Platform	Binance Smart Chain

Contracts checked

Name	Address	
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Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

Manual audit

Manually analyze smart contracts for security vulnerabilities

 Smart contracts' logic check

▼ Known vulnerabilities checked

Title	Check result
Unencrypted Private Data On-Chain	passed
Code With No Effects	passed
Message call with hardcoded gas amount	passed
Typographical Error	passed
DoS With Block Gas Limit	passed
Presence of unused variables	passed
Incorrect Inheritance Order	passed
Requirement Violation	passed
Weak Sources of Randomness from Chain Attributes	passed
Shadowing State Variables	passed
Incorrect Constructor Name	passed
Block values as a proxy for time	passed
Authorization through tx.origin	passed
DoS with Failed Call	passed
Delegatecall to Untrusted Callee	passed
Use of Deprecated Solidity Functions	passed
Assert Violation	passed
State Variable Default Visibility	passed
Reentrancy	passed
Unprotected SELFDESTRUCT Instruction	passed

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<u>Unprotected Ether Withdrawal</u> passed

<u>Unchecked Call Return Value</u> passed

<u>Floating Pragma</u> passed

Outdated Compiler Version passed

Integer Overflow and Underflow passed

<u>Function Default Visibility</u> passed

Classification of issue severity

High severity High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

Medium severity Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

Low severity Low severity issues do not cause significant destruction to the contract's

functionality. Such issues are recommended to be taken into

consideration.

U Issues

High severity issues

No issues were found

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Medium severity issues

No issues were found

Low severity issues

No issues were found



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○ Conclusion

Solanex contract was audited. No severity issues were found.

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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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Slither output

```
INFO:Detectors:

Pragma version0.8.26 (contracts/Solanex.sol#2) necessitates a version too recent to be trusted. Consider deploying with 0.8.18.

solc-0.8.26 is not recommended for deployment

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

INFO:Slither:. analyzed (21 contracts with 88 detectors), 2 result(s) found
```

```
# Check SolanexToken
## Check functions
[⋈] totalSupply() is present
        [⋈] totalSupply() -> (uint256) (correct return type)
        [⋈] totalSupply() is view
[⋈] balanceOf(address) is present
        [⋈] balanceOf(address) -> (uint256) (correct return type)
        [⋈] balanceOf(address) is view
[⋈] transfer(address, uint256) is present
        [M] transfer(address, uint256) -> (bool) (correct return type)
        [⋈] Transfer(address,address,uint256) is emitted
[⋈] transferFrom(address,address,uint256) is present
        [M] transferFrom(address,address,uint256) -> (bool) (correct return type)
        [⋈] Transfer(address,address,uint256) is emitted
[⋈] approve(address,uint256) is present
        [⋈] approve(address, uint256) -> (bool) (correct return type)
        [⋈] Approval(address,address,uint256) is emitted
[⋈] allowance(address, address) is present
        [M] allowance(address, address) -> (uint256) (correct return type)
        [⋈] allowance(address,address) is view
[ \boxtimes ] name() is present
        [⋈] name() -> (string) (correct return type)
        [ \boxtimes ] name() is view
```

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```
[X] symbol() is present
        [X] symbol() -> (string) (correct return type)
        [X] symbol() is view

[X] decimals() is present
        [X] decimals() -> (uint8) (correct return type)
        [X] decimals() is view

## Check events

[X] Transfer(address,address,uint256) is present
        [X] parameter 0 is indexed
        [X] parameter 1 is indexed

[X] Approval(address,address,uint256) is present
        [X] parameter 0 is indexed

[X] parameter 1 is indexed

[X] parameter 1 is indexed

[X] [X] SolanexToken is not protected for the ERC20 approval race condition
```



