

Smart contracts security assessment

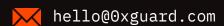
Final report

Tariff: Standard

XRP20

August 2023





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□ Introduction

The report has been prepared for **XRP20**.

Audited token is an ERC-20 standard token. XRP20 token doesn't have mint functionality and all transfers are subjected to 0.1% burn without exceptions. Tax is not applied for transferring amounts below 1000 wei threshold.

The code in the @XRP20Dev/XRP20TokenContract Github repo was audited in the 839b985 commit.

Name	XRP20
Audit date	2023-08-03 - 2023-08-05
Language	Solidity
Platform	Ethereum

Contracts checked

Name	Address	
XRP20Token		

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

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- 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	not 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

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 Unprotected SELFDESTRUCT Instruction
 passed

 Unprotected Ether Withdrawal
 passed

 Unchecked Call Return Value
 passed

 Floating Pragma
 passed

 Outdated Compiler Version
 passed

 Integer Overflow and Underflow
 passed

 Function Default Visibility
 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.

Issues

High severity issues

No issues were found

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Medium severity issues

No issues were found

Low severity issues

1. Unused import (XRP20Token)

Status: Open

XPR20Token contract is derived from the Ownable contract from OPenZeppelin library, but it's functionality never used.

Team response: The Ownable contract is used to transfer or renounce ownership of the token, but is never used in the token itself.

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○ Conclusion

XRP20 XRP20Token contract was audited. 1 low severity issue was found. It should be also note that the low severity issue is a gas optimization issue during the deployment process and does not anyhow affect the token security.

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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:

Context._msgData() (contracts/Token.sol#116-118) is never used and should be removed Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

INFO:Detectors:

Pragma version0.8.9 (contracts/Token.sol#3) allows old versions

solc-0.8.9 is not recommended for deployment

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

versions-of-solidity

INFO: Detectors:

Constant XRP20Token._decimals (contracts/Token.sol#207) is not in

UPPER_CASE_WITH_UNDERSCORES

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-

solidity-naming-conventions

INFO:Slither:. analyzed (5 contracts with 88 detectors), 4 result(s) found



