



SMART CONTRACT SECURITY AUDIT

Zelwin

November, 2021

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;
2. Manual analysis of smart contracts:
 - Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
 - Hashes of all transaction will be recorded
 - Behaviour of functions and gas consumption is noted, as well.
3. Unit Testing:
 - Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
 - In this phase intended behaviour of smart contract is verified.
 - In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
 - Gas limits of functions will be verified in this stage.
4. Automated Testing:
 - Mythril
 - Oyente
 - Manticore
 - Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 24.11.2021

Contract Name: **ZELWIN**

Deployed address: **0x5dd1E31E1a0e2E077aC98d2a4b781F418ca50387**

Total Supply: **1,588,917.787413**

Token Tracker: **ZLW**

Decimals: **18**

Token holders: **128**

Transactions count: **61,048**

Top 100 holders dominance: **100%**

Audit Details

The logo for ZELWIN, with 'ZEL' in yellow and 'WIN' in red, both in a bold, blocky font.

Project Name: **Zelwin**

Language: **Solidity**

Compiler version: **v0.8.4**

Blockchain: **BSC**

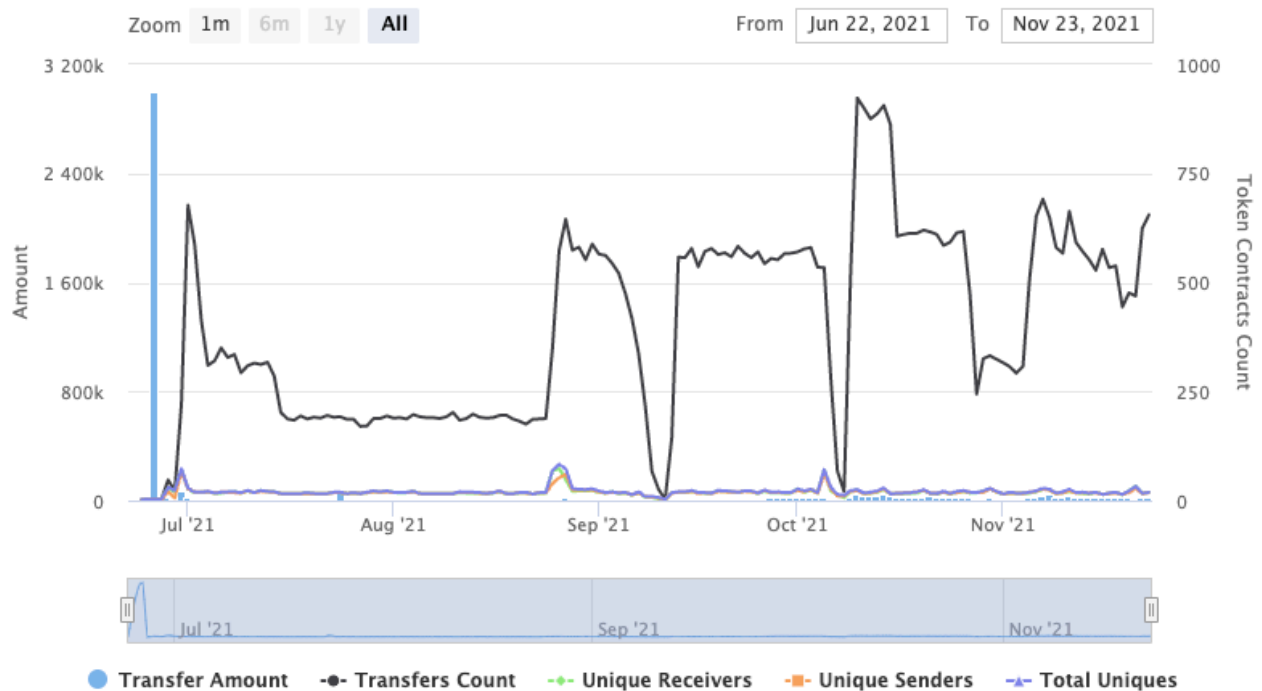
Social Profiles

Project Website: <https://zelwin.com/>

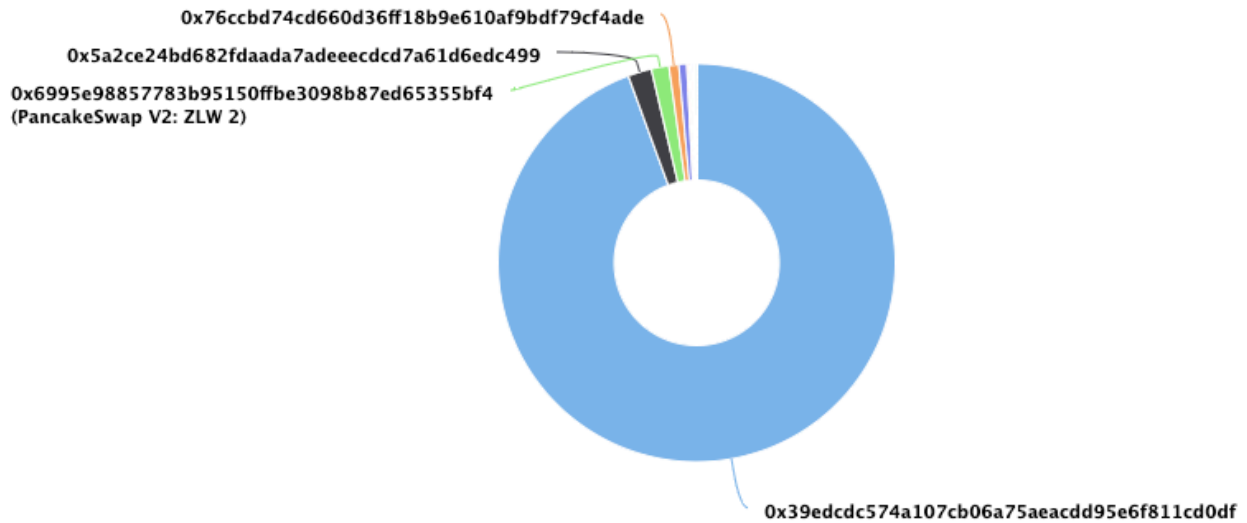
Project Twitter: <https://twitter.com/ZELWINofficial>

Project Telegram: <https://t.me/ZELWINofficial>





Token Contract Overview



ZLW Token Distribution



ZLW Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	 0x39edcdc574a107cb06a75aeacdd95e6f811cd0df	1,500,000	94.4039%
2	 0x5a2ce24bd682fdaada7adeeecdcd7a61d6edc499	30,719.183899618911323256	1.9333%
3	 PancakeSwap V2: ZLW 2	22,633.93805828895343627	1.4245%
4	0x76ccbd74cd660d36ff18b9e610af9bdf79cf4ade	12,666.1351835815070172	0.7972%
5	 0xa7f3fbc06b27805d522190fcc2b7540c82b6751f	10,334.850103453203751698	0.6504%
6	0x40c0418443fdead05cf7ac6b91a56ef79b1d0373	1,964.288689313323187372	0.1236%
7	0x39d2759ff9cea4c37462ac560c1103f522edf5ad	1,075.876137485592533848	0.0677%
8	0x4edf6add0603c6e2b3fdea7f0285c734c53891b0	838.403777604831628393	0.0528%
9	0xb24ec7c51cb9b4e4de1a951c7347a4a8bcfad4d4	809.359277447924948992	0.0509%
10	0x461f2a372f1ea0ff75ff714101dc5e54f2167cce	757.718762121891654252	0.0477%

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Compiler Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Conclusion

Smart contract is free from any low-severity, critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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