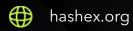


EVEDEX Market

smart contracts final audit report

September 2025





Contents

1. Disclaimer	3
2. Overview	4
3. Found issues	6
4. Contracts	7
5. Conclusion	8
Appendix A. Issues' severity classification	9
Appendix B. Issue status description	10
Appendix C. List of examined issue types	11
Appendix D. Centralization risks classification	12

1. Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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2. Overview

HashEx was commissioned by the EVEDEX team to perform an audit of their smart contracts. The audit was conducted between 25/09/2025 and 27/09/2025.

The purpose of this audit was to achieve the following:

- Identify potential security issues with smart contracts
- Formally check the logic behind given smart contracts.

Information in this report should be used for understanding the risk exposure of smart contracts, and as a guide to improving the security posture of smart contracts by remediating the issues that were identified.

This is incremental audit of the EHMarket contract. Previously audited version is available at ox80AF2ee95f5e40251f2C759a04908a21E3272038 in the Eventum Mainnet, <a href="https://oxen.org/audit.org/aud

The audited code was provided via EVEDEX private GitLab repository. SHA256 hashes of audited files:

630d118e489c9c9522e729e9cc5a2cbfef21bcc17d34cb1b871f809b2e7d143d EHMarketV3.sol.

2.1 Summary

Project name	EVEDEX Market
URL	https://evedex.com/
Platform	Eventum Network
Language	Solidity
Centralization level	High
Centralization risk	• Low

2.2 Contracts

Name	Address
EHMarketV3	

3. Found issues



Cd5. EHMarketV3

ID	Severity	Title	Status
Cd5lac	Low	Lack of integration testing	
Cd5lab	Info	Use of magic constants	

4. Contracts

Cd5. EHMarketV3

Overview

A token holding contract that allows users to deposit fixed ERC20 tokens. Withdrawing is allowed only for addresses with the MATCHER_ROLE or DEFAULT_ADMIN_ROLE roles. Withdraw limits can be configured for individual users and/or for total withdrawn amount for given periods. Withdraw limits are applied only for MATCHER_ROLE, but not for DEFAULT_ADMIN_ROLE.

Changes comparing to the previously audited version: withdrawal requests can now be blocked and unblocked by either MATCHER_ROLE or DEFAULT_ADMIN_ROLE, with default admin to have higher priority.

Issues

Cd5lac Lack of integration testing

Low

Acknowledged

The EHMarket is deployed as an upgradeable proxy and the EHMarketV3 is designed to be a proxy implementation. The contract itself is functionally tested, but there's no tests for upgrading.

We recommend add integration testing to ensure seamless upgrade.

Cd5lab Use of magic constants

Info

Acknowledged

Request statuses are coded by using uint8 and encoding scheme is documented by inline comments.

Solidity supports <u>enums</u> for better readability. Another solution to increase code readability is to use named constants for statuses.

5. Conclusion

1 low severity issue was found during the audit. No issues were resolved in the update. This audit includes recommendations on code improvement and the prevention of potential attacks.

Appendix A. Issues' severity classification

• **Critical.** Issues that may cause an unlimited loss of funds or entirely break the contract workflow. Malicious code (including malicious modification of libraries) is also treated as a critical severity issue. These issues must be fixed before deployments or fixed in already running projects as soon as possible.

- **High.** Issues that may lead to a limited loss of funds, break interaction with users, or other contracts under specific conditions. Also, issues in a smart contract, that allow a privileged account the ability to steal or block other users' funds.
- **Medium.** Issues that do not lead to a loss of funds directly, but break the contract logic. May lead to failures in contracts operation.
- **Low.** Issues that are of a non-optimal code character, for instance, gas optimization tips, unused variables, errors in messages.
- **Informational.** Issues that do not impact the contract operation. Usually, informational severity issues are related to code best practices, e.g. style guide.

Appendix B. Issue status description

- ❷ Resolved. The issue has been completely fixed.
- **Partially fixed.** Parts of the issue have been fixed but the issue is not completely resolved.
- Acknowledged. The team has been notified of the issue, no action has been taken.
- ② Open. The issue remains unresolved.

Appendix C. List of examined issue types

- Business logic overview
- Functionality checks
- Following best practices
- Access control and authorization
- Reentrancy attacks
- Front-run attacks
- DoS with (unexpected) revert
- DoS with block gas limit
- Transaction-ordering dependence
- ERC/BEP and other standards violation
- Unchecked math
- Implicit visibility levels
- Excessive gas usage
- Timestamp dependence
- Forcibly sending ether to a contract
- Weak sources of randomness
- Shadowing state variables
- Usage of deprecated code

Appendix D. Centralization risks classification

Centralization level

- **High.** The project owners can manipulate user's funds, lock user's funds on their will (reversible or irreversible), or maliciously update contracts parameters or bytecode.
- **Medium.** The project owners can modify contract's parameters to break some functions of the project contract or contracts, but user's funds remain withdrawable.
- **Low.** The contract is trustless or its governance functions are safe against a malicious owner.

Centralization risk

- **High.** Lost ownership over the project contract or contracts may result in user's losses. Contract's ownership belongs to EOA or EOAs, and their security model is unknown or out of scope.
- **Medium.** Contract's ownership is transferred to a contract with not industry-accepted parameters, or to a contract without an audit. Also includes EOA with a documented security model, which is out of scope.
- **Low.** Contract's ownership is transferred to a well-known or audited contract with industry-accepted parameters.

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