



Smart contracts security assessment

Final report

[Tariff: Top](#)

Astromarket

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Introduction

The report has been prepared for the Astromarket team.

Name	Astromarket
Audit date	2022-05-29 - 2022-06-03
Language	Rust
Platform	NEAR

Contracts checked

Name	Address
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Contract

Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated 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

🛡️ 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

Medium severity issues

1. Wrong storage management (Contract)

In the contract, there are no checks on transfer results. It is a better practice to check all results for all promises.

Team response: This function isn't now available. It will be changed and then will be used in the future. So we don't use bid function of contract now (just structure of future).

2. Wrong interaction with royalty (Contract)

In the functions `buy()` and `internal_accept_offer()` there is an interaction with the `nft_transfer_payout()` function of an NFT. This function returns as a result an array of royalty receivers. Interactions with this array are performed under the assumption that it contains information

about the amount for a seller of an NFT, but there is no such guarantee.

Team response: We will verify contract if it inherits nep-171 standard before importing nft smart contract on our market contract. Also we don't care about how much the contract's royalty is set. If we found issues some contract is scammable, then we will stop verification and will remove the collection from our market.

3. No checking on transfer results (Contract)

In the contract, there are no checks on transfer results. It is a better practice to check all results for all promises.

Team response: There are checking part on nft transfer, but not have in only near token transfer. It isn't need actually, because near token is native token and all funds will be sent to market before trading, so there will be enough funds in contract always.

Low severity issues

1. Max fee (Contract)

The owner can set fees of up to 99.99% to the value. It is a better practice to set a lower border for commission.

Team response: If there are scam NFTs on market, our contract owner(Ted) can set a max fee for the collection.

Conclusion

Astromarket Contract contract was audited. 3 medium, 1 low severity issues were found.

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