

Juny 2021

Security Audit

INTERSMART

0x6ab5E0f72c2Dc52b7F0f3D980034E80E6107F334

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CRITICAL ISSUES (critical, high severity): 0

Bugs and vulnerabilities that enable theft of funds, lock access to funds without possibility to restore it, or lead to any other loss of funds to be transferred to any party; high priority unacceptable bugs for deployment at mainnet; critical warnings for owners, customers or investors.

ERRORS, BUGS AND WARNINGS (medium, low severity): 0

Bugs that can trigger a contract failure, with further recovery only possible through manual modification of the contract state or contract replacement altogether; Lack of necessary security precautions; other warnings for owners and users.

OPTIMIZATION POSSIBILITIES (very low severity): 0

Possibilities to decrease cost of transactions and data storage of Smart-Contracts.

NOTES AND RECOMMENDATIONS (very low severity): 1

Tips and tricks, all other issues and recommendations, as well as errors that do not affect the functionality of the Smart-Contract.

Conclusion:

In the INTERSMART Smart-Contract were found no vulnerabilities and no backdoors. The code was manually reviewed for all commonly known and more specific vulnerabilities.

So INTERSMART Smart-Contract is safe for use in the main network.

AUDIT RESULT:

Notes

1. Loop over a increasing variable (low severity):

In the 'getFreeReferrer, regUser' functions, the 'while' loop grows indefinitely as the number of invitees in structure increases before the upline for the new participant.

There is a block gas limit in the Ethereum blockchain, so the transaction size is limited. If this limit is exceeded, the transaction cannot be executed on the network at this point in time, so the user will not be able to personally invite referrals.

Take mention that the project has a limit on the withdrawal of profit - the user must personally invite at least 2 referrals, otherwise the withdrawal will not be available for him.



Active user structure (in which payments happen):

1 stage: 63 places (including the user) - 6 levels - 32 users in the lower level - maximum 7 rounds of payments.

2 stage: 31 places (including the user) - 5 levels - 16 users in the lower level - maximum 7 rounds of payments

3 stage: 15 places (including the user) - 4 levels - 8 users in the lower level - maximum 8 rounds of payments

4 stage: 7 places (including the user) - 3 levels - 4 users in the lower level - maximum 10 rounds of payments

The user receives payments from the lowest level in active structure: half of the payments are accumulated for the autopayment of the next platform, one payment is held for reinvestment of the current stage (payments occur again in a next round in the same stage), the remaining payments are available for withdrawal as profit.

Profit withdrawal is processed on request - you need to "send" 0 ETH to the address of the smart contract, or call the "withdraw" function. For successful withdrawal, you must personally invite at least 2 users to the project.

The contract contains statistical functions that do not require sending transactions:

1. `getFreeReferrer` – get free place in user's structure.
2. `getContractBalance` – balance of smart-contract.
3. `getAmountOfUsers` – amount of users in structure.
4. `getDaysSinceStart` – how many days contract is working.
5. `isRegistered` – if user registered or not.
6. `getUserId` – ID of user on stage.
7. `getUserById` – get user address by ID.
8. `getUserReferrer` - upline.
9. `getUserReferrers` - get list of uplines.
10. `getUserPartners` - get personal invitees.
11. `getUserAmountOfPartners` - amount of personal invitees.
12. `getUserReferrals` - get 2 personal referrals of user.
13. `getUserAmountOfReferrals` - get amount of personal referrals of user.
14. `getUserProfit` - profit available to withdraw.
15. `getUserRounds` - amount of rounds on stage of user.
16. `getUserLevel` - highest opened stage by user.
17. `getUserStages` - amount of rounds of all stages of user.
18. `getStructure` - get structure on stage of user.

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Disclaimer:

This audit is not a call to participate in the project and applies only to the Smart-Contract code at the specified address.

Do not forget that you are doing all financial actions at your own risk, especially if you deal with high-risk projects.

Warning:

Beware of fake audits.

All official info available on 3 resources only:

Website: **www.grox.solutions**

Telegram: **[@groxsolutions](https://www.t.me/groxsolutions)**

YouTube: **www.youtube.com/c/groxsolutions**

If you have any questions or are interested in developing/auditing of Smart-Contracts, please contact us and we will consult you.

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