



# The TRONCS smart-contract audit

Revision 2 dated 11.14.2020

## Table of contents

The TRONCS smart-contract audit .....	1
Table of contents .....	2
Brief information .....	3
Information .....	3
General conclusion .....	3
Liability disclaimer .....	3
Aggregated data .....	4
Received data .....	4
A. Errors.....	5
B. Remarks.....	6
C. Warnings.....	7
1. User warning.....	7
Application. Error classification .....	8
Application. Digital bytecode print .....	9
Application. Signature of the audit report .....	1

## Brief information

**The Project:** [troncs.io](https://troncs.io)  
**Web:** TRON  
**Compiler version:** 0.5.9  
**Optimization:** enabled  
**The audit date:** 11.13.2020

## Information

The contract code was reviewed and analyzed for vulnerabilities, logical errors, and the developers' exit scams possibility. This work was carried out concerning the project source code provided by the customer.

During the audit, remarks were discovered that do not directly affect the funds' safety, but which the investor should keep in mind.

The detected problems full list can be found below.

## General conclusion

As the audit result, 1 remark was revealed that did not affect the users' funds security on the contract. The exit scam clear signs - not found. Remark is related to the contract peculiarities, regarding the additional income calculation depending on the time.

**Telescr.in guarantees the TRONCS contract security and performance.**

## Liability disclaimer

The telescr.in team within this audit framework is not responsible for the developers or third parties actions on the platforms associated with this project (websites, mobile applications, and so on). The audit confirms and guarantees only the smart contract correct functioning in the revision provided by the project developers (check the revision).

[Confirmed by digital signature](#)

## Aggregated data

The Contract analysis was performed using the following methods:

- Static analysis
  - Checking the code for common errors leading to the most common vulnerabilities
- Dynamic analysis
  - The Contract launching and carrying out the attacks various kinds to identify vulnerabilities
- Code Review

## Received data

Recommendation	Type	Priority	Occurrence probability
<a href="#">User warning</a>	Warning	Informational	High

## A. Errors

Not found

## B. Remarks

Not found

## C. Warnings

### 1. User warning

The investor should pay attention to the fact that the contract work is cyclical, the cycle is 10 days. For correct operation, the contract state value `cycleStart` must be up to date. This is achieved by calling a function method `poolExtendTimer`, which any user can call.

## Application. Error classification

<b>Priority</b>	
informational	This question is not directly related to functionality but may be important to understand.
low	This question has nothing to do with security, but it can affect some behaviour in unexpected ways.
<i>Average</i>	The problem affects some functionality but does not result in an economically significant user funds loss.
high	This issue can result in the user funds loss.
<b>Probability</b>	
low	It is unlikely that the system is in a state in which an error could occur or could be caused by any party.
<i>Average</i>	This problem may likely arise or be caused by some party.
high	It is highly likely that this problem could arise or could be exploited by some parties.

## Application. Digital bytecode print

The audit was carried out for the code certain version on the compiler version 0.5.9 with the optimization enabled.

To check the contract bytecode for identity to the one that was analysed during the audit, you must:

1. Get contract bytecode (in any block explorer)
2. [Get SHA1 from bytecode string](#)
3. Compare with reference in this report

Sha1 from bytecode:

14d6419c77a6ef5b2614c89de9b148709ac3989f

Sha1 from bytecode (non-metadata):

8bfde0fb50565c75e292d04dd45d96ec766b307f

Contract address:

TWNVY5MEsxj1WyCeBohgKme9DP2giVZEgc

[Check the digital print](#)

## Application. Signature of the audit report

```
{  
  "address": "0x505ade8cea4db608250e503a5e8d4cb436044d2e",  
  "msg": "As the audit result, 1 remark was revealed that did not affect the users' funds security on the contract. The exit scam clear signs - not found. Remark is related to the contract peculiarities, regarding the additional income calculation depending on the time. Telescr.in guarantees the TRONCS contract security and performance. Sha1 from bytecode: 14d6419c77a6ef5b2614c89de9b148709ac3989f, sha1 from bytecode (non-metadata): 8bfde0fb50565c75e292d04dd45d96ec766b307f, contract address: TWNVY5MEsxj1WyCeBohgKme9DP2giVZEgc",  
  "sig": "0x28ff97e1a39b3566726d91dbb8884b9fb5009253bb16dfa63e3d5770baf839041defa8b0710a7d830fde690fdcec89111f5c9dda6c4fcd4f53bc333fd7da47141b",  
  "version": "3"  
}
```



[Check the signature](#)