# **Token Sale Audit**

## Done by HungryDev.pro team

The code is located in the open-source github gist <u>Token Contract</u> and <u>Token Sale Contract</u>.

All of the issues are classified using the popular OWASP risk rating model. It estimates the severity taking into account both the likelihood of occurrence and the impact of consequences

	Severity		
High	Medium	High	Critical
Medium	Low	Medium	High
Low	Note	Low	Medium
	Low	Medium	High
	Likelihood		

## Description of the complex of procedures for auditing a smart contract

## Primary architecture review

- · Checking the architecture of the contract.
- · Check for linearity, shortness and self-documentation.
- · Static verification and code analysis for validity and the presence of syntactic errors.
- · Correctness of the code.

#### **SUMMARY**

The code is well organised. Code style follow to the solidity recommendations. There were no critical errors found. Only one issue with a high severity was identified. Most of the comments regard edge case scenarios and contain advice that will allow easier maintenance of the crowd-sale process in all of the circumstances

### **FOUND ISSUES**

Severity: MEDIUM (Impact: MEDIUM, Likelihood: LOW)

Dates of ICO stages are not presented in time zone of Madrid, Spain.

Severity: HIGH (Impact: HIGH, Likelihood: MEDIUM)

There is no validation on the purchase of the last token and refund from purchase.

### NOTES AND SUGGESTIONS

- Change functions scope in Sales Contract from internal to private.
- Lack of comments on functions and some of them done in Russian.
- Better to lock pragmas to specific compiler version.
- Implement reentrancy guard on closeSale, sale1, sale2, sale3 functions.

## **Update**

### **Executive Summery**

The smart contract audit did not discover any issues of critical severity.

### **Files Audited**

https://gist.github.com/Smart-Contract-Web/ae8e1a217f9355dad667526b12b751b6 https://gist.github.com/Smart-Contract-Web/d1492c53eb4a34f40eeb1cc88669af51

### **Critical**

No critical issues found

## Possible bug

No critical issues found

## **Testing**

Testing smart contract was successful. No critical issue found.

### **Notice**

Owner of the Sale contract should be careful with access to the contract because in case of lose access to the contract. The withdraw function *transferEthFromContract* can't be called anymore.