



Vip2fan is a platform where celebrities (musicians, actresses, actors, artists, painters, photographers, elite athletes, etc.) can sell their works, services, collectables (memorabilia) within a secure ecosystem, certified by blockchain. This platform use its own token, called I doru.

I doru token is a new cryptocurrency based in Ethereum that allows any user to purchase objects and services within its platform. I doru is implemented in ERC-20 Standard, guaranteeing the user of the platform the traceability of transactions. This is my report.

## INFORMATION

Project: Vip2Fan ([www.vip2fan.com](http://www.vip2fan.com))

Report Type: Analysis and Opinion on the stability and reliability of the source code of Smart Contract

Object: Smart Contract

General features source: Developed in Solidity Contract-Oriented 0.4.18





## SCOPE OF TESTS

The methodology used in the process has made it possible to carry out an exhaustive review of the audited application, covering the following main safety aspects detailed below:

**Based:** The development of this smart contract was performed under the standardized framework REMIX.

**Error handling:** We review all methods / functions that return values have proper error handling and return proven and expected values in error conditions. Managing exceptions and error situations; that no system errors are returned to the user.

**Logging / Auditing:** It is audited that no sensitive information is stored in the application logs: cookies, information in "GET" methods, authentication credentials, etc.; the application logs the actions that occur in the application by users and especially in cases of potentially dangerous actions; all authentication events, failed or not, are logged; etc.

**Cryptography:** No sensitive data is transmitted, either internally or externally, and encryption algorithms or methods are recognized and standardized on known Blockchain systems, possessing the necessary robustness.

**Secure Code:** It analyzes the file's structure to ensure that no resource that should not be accessible by the user; memory reservations / releases are correctly performed.

**Interoperability:** The ERC20 Tokens Standard is implemented, allowing optimal interaction with alternative smart contracts, as well as with decentralized applications in the Ethereum blockchain. The use of this standard allows a drastic reduction of the error rate in the interaction. This type of tokens are easily tracked in the blockchain, since they are a specific type of smart contracts that "lives" in the Ethereum blockchain.





## SOURCE CODE COMPLEXITY

Given the type of audit, a study of the Functional Complexity of Source Code is added, allowing an evaluation of the same, following the Cyclomatic Complexity metric, which is based on the flow diagram determined by the control structures of the source code; regardless of the programming language used. From this analysis can be obtained a quantitative measure of the difficulty of creating automatic tests of the code and is also a guideline measurement of the reliability of the same.

The measure given by this study is **5**. This measure indicates that the code is properly structured, facilitating the testing, in addition to establishing the minimum associated security risk.

## RESULTS

As a result of the audit of the delivered code, the following opinion is issued by the Auditor: There are currently many Blockchain-based projects that opt for the use of Ethereum and the ERC20 standard. It is very likely that this market will continue to grow with new and better applications that meet this standard in order to interact with each other. This allows the software to interoperate with other applications that meet the aforementioned standard, in addition to doing transactions between platforms of similar sector.

Also, the use of Solidity Contract-Oriented as High Level Language, allows a short learning curve, thanks to its similarity to the JavaScript Script Language.

The above described, along with the characteristics of the source code audited, allows this auditor to make a positive assessment in the scope of the source code. Therefore, a high reliability in all significant aspects is estimated.

*AJ Melián*

01/08/2018 14:37:55 BST



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