

HACKEN

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Customer: GiveUs
Date: 07 July, 2023

This report may contain confidential information about IT systems and the intellectual property of the Customer, as well as information about potential vulnerabilities and methods of their exploitation.

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Document

Name	Smart Contract Code Review and Security Analysis Report for GiveUs
Approved By	Paul Fomichov Lead Solidity SC Auditor at Hacken OU
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Introduction

Hacken OÜ (Consultant) was contracted by GiveUs (Customer) to conduct a Smart Contract Code Review and Security Analysis. This report presents the findings of the security assessment of the Customer's smart contracts.

System Overview

The scope of this audit consists of a crowdfunding contract that aims to collect donations for project owners in the form of ERC20 tokens. The projects' specifications are determined by an admin role called `UPDATER_ROLE`, which acts as the coordinator of each project funding in the system.

Every project has several threshold donation values. When the donations reach thresholds, the sessions are voted by the donors for passage to the next session. If the votes are successful, project owners can withdraw the donations. If not, the session is reset and gets into a cooldown period.

The files in the scope:

- **Crowdfunding.sol** - The main contract of the system that is responsible for storing project specifications, the collection of funds, and withdrawal of funds.
- **ICrowdfunding.sol** - Interface for Crowdfunding.sol.

Privileged roles

`Crowdfunding` contract use Access Control to restrict access to important functions. In the contract, there are 3 key privileged roles:

- `PAUSER_ROLE` - address with this privilege is permitted to pause and unpause contract in case of emergency.
- `UPDATER_ROLE` - address with this privilege has access to most functions. This role can create new crowdfunding projects, start a vote session for a threshold for a given project, add new supported token, update donation fee for given project, update project status (set if project is active or not), update project vote cooldown and withdraw funds to other projects.
- `WITHDRAWER_ROLE` - this role is defined in the system but never used. Address with this role does not have more privileges than other addresses. This role should be deleted.

Executive Summary

The score measurement details can be found in the corresponding section of the [scoring methodology](#).

Documentation quality

The total Documentation Quality score is **10** out of **10**.

- Technical description is provided.
- Description of the development environment is provided.
- NatSpec is sufficient.

Code quality

The total Code Quality score is **10** out of **10**.

- Best practices are followed.
- Development environment is configured.

Test coverage

Code coverage of the project is **100%** (branch coverage).

- Deployment and basic user interactions are covered with tests.
- Negative cases coverage is present.
- Interactions by several users are not tested thoroughly.

Security score

As a result of the audit, the code contains **no** issues. The security score is **10** out of **10**.

All found issues are displayed in the “Findings” section.

Summary

According to the assessment, the Customer's smart contract has the following score: **10**. The system users should acknowledge all the risks summed up in the risks section of the report.

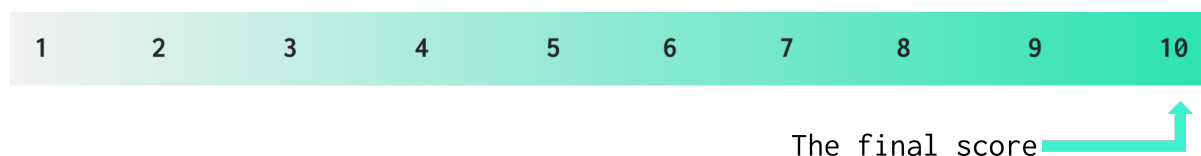


Table. The distribution of issues during the audit

Review date	Low	Medium	High	Critical
12 May 2023	4	4	2	2
13 June 2023	0	0	1	0
07 July 2023	0	0	0	0

Risks

- No risks have been identified for this project.

Checked Items

We have audited the Customers' smart contracts for commonly known and specific vulnerabilities. Here are some items considered:

Item	Description	Status	Related Issues
Default Visibility	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	Passed	
Integer Overflow and Underflow	If unchecked math is used, all math operations should be safe from overflows and underflows.	Passed	
Outdated Compiler Version	It is recommended to use a recent version of the Solidity compiler.	Passed	
Floating Pragma	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	Passed	
Unchecked Call Return Value	The return value of a message call should be checked.	Passed	
Access Control & Authorization	Ownership takeover should not be possible. All crucial functions should be protected. Users could not affect data that belongs to other users.	Passed	
SELFDESTRUCT Instruction	The contract should not be self-destructible while it has funds belonging to users.	Not Relevant	
Check-Effect-Interaction	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	Passed	
Assert Violation	Properly functioning code should never reach a failing assert statement.	Passed	
Deprecated Solidity Functions	Deprecated built-in functions should never be used.	Passed	
Delegatecall to Untrusted Callee	Delegatecalls should only be allowed to trusted addresses.	Passed	
DoS (Denial of Service)	Execution of the code should never be blocked by a specific contract state unless required.	Passed	

Race Conditions	Race Conditions and Transactions Order Dependency should not be possible.	Passed	
Authorization through tx.origin	tx.origin should not be used for authorization.	Not Relevant	
Block values as a proxy for time	Block numbers should not be used for time calculations.	Passed	
Signature Unique Id	Signed messages should always have a unique id. A transaction hash should not be used as a unique id. Chain identifiers should always be used. All parameters from the signature should be used in signer recovery. EIP-712 should be followed during a signer verification.	Not Relevant	
Shadowing State Variable	State variables should not be shadowed.	Passed	
Weak Sources of Randomness	Random values should never be generated from Chain Attributes or be predictable.	Not Relevant	
Incorrect Inheritance Order	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order.	Passed	
Calls Only to Trusted Addresses	All external calls should be performed only to trusted addresses.	Passed	
Presence of Unused Variables	The code should not contain unused variables if this is not justified by design.	Passed	
EIP Standards Violation	EIP standards should not be violated.	Not Relevant	
Assets Integrity	Funds are protected and cannot be withdrawn without proper permissions or be locked on the contract.	Passed	
User Balances Manipulation	Contract owners or any other third party should not be able to access funds belonging to users.	Passed	
Data Consistency	Smart contract data should be consistent all over the data flow.	Passed	

Flashloan Attack	When working with exchange rates, they should be received from a trusted source and not be vulnerable to short-term rate changes that can be achieved by using flash loans. Oracles should be used.	Not Relevant	
Token Supply Manipulation	Tokens can be minted only according to rules specified in a whitepaper or any other documentation provided by the Customer.	Not Relevant	
Gas Limit and Loops	Transaction execution costs should not depend dramatically on the amount of data stored on the contract. There should not be any cases when execution fails due to the block Gas limit.	Passed	
Style Guide Violation	Style guides and best practices should be followed.	Failed	I04
Requirements Compliance	The code should be compliant with the requirements provided by the Customer.	Passed	
Environment Consistency	The project should contain a configured development environment with a comprehensive description of how to compile, build and deploy the code.	Passed	
Secure Oracles Usage	The code should have the ability to pause specific data feeds that it relies on. This should be done to protect a contract from compromised oracles.	Not Relevant	
Tests Coverage	The code should be covered with unit tests. Test coverage should be sufficient, with both negative and positive cases covered. Usage of contracts by multiple users should be tested.	Passed	
Stable Imports	The code should not reference draft contracts, which may be changed in the future.	Passed	

Findings

■■■■ Critical

C01. Funds Lock / Undocumented Behavior

Impact	High
Likelihood	High

Several functions accept native coins (with `payable` modifier) to Smart Contract, but there is no withdrawn mechanism for these funds. If, for some reason, a user sends native coins to contract, these coins will be locked there.

The contract accepts token deposits but lacks a withdrawal mechanism, which can result in funds being locked in the contract and is not documented.

Path:

```
./contracts/Crowdfunding.sol : createProject(), pause(), unpause(),  
endTresholdVoting(),      addNewSupportedToken(),      setDonationFee(),  
updateProjectStatus(),      updateProjectVoteCooldown(),  
withdrawFundsToOtherProject()
```

Recommendation: Remove payable modifier from mentioned functions.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

C02. Funds Lock

Impact	High
Likelihood	High

If a given project has set `donationFee > 0`, when the user is donating tokens to a given project, `transactionFee` value is calculated but not saved to the variable. `Amount`(function parameter) is transferred to contract, but only `donationAmount(amount - transactionFee)` is tracked. These funds will be locked inside the contract without being able to withdraw them.

Path:

```
./contracts/Crowdfunding.sol : donateToProject(),
```

Recommendation: Add variable to track total value of transactions fee and create mechanism to withdraw them using dedicated or existing role.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

■■■ High

H01. Unchecked Transfer

Impact	High
Likelihood	Medium

It is considered following best practices to avoid unclear situations and prevent common attack vectors.

The functions do not use SafeERC20 library for checking result of ERC20 token transfers. Tokens may not follow ERC20 standard and return false in case of transfer failure or not returning any value at all.

This can lead to denial of service vulnerabilities during interactions with non-standard tokens.

Path:

`./contracts/Crowdfunding.sol : donateToProject(), withdrawFunds(),`

Recommendation: Follow common best practices, use SafeERC20Upgradeable library to interact with tokens safely.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

H02. Undocumented Mathematical Operation

Impact	High
Likelihood	Medium

In the `deliberateVote()` function, there is a statement:

`project.availableToWithdraw += currentTreshold.budget++`

The usage and reason for increasing `currentTreshold.budget` by using the `++` statement is not clear.

This may lead to unexpected behavior.

Path:

`./contracts/Crowdfunding.sol : deliberateVote()`

Recommendation: Correct incorrect mathematical operation or document its behavior in detail.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

H03. Highly Permissive Role Access / Token Balance Manipulation

Impact	High
Likelihood	Medium

The UPDATER_ROLE role has access to user project owner funds and can move the funds between projects without any restrictions.

If a key leak were to occur, the potential consequences could be significant, potentially leading to security breaches and undermining the overall integrity of the system.

Path:

`./contracts/Crowdfunding.sol : withdrawFundsToOtherProject()`

Recommendation: It is recommended to restrict the scope of permissions for those roles.

To ensure transparency and accountability, it is advised to provide a comprehensive explanation of highly-permissive access in the system's public documentation. This would help to ensure that users are fully informed of the implications of such access and can make informed decisions accordingly.

Implement a multi-sig access management system with a Timelock controller (like [OpenZeppelin Defender](#)) and provide clear explanations to the users in the public documentation.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 74e5746)

■ ■ Medium

M01. Non-Finalized Code

Impact	Medium
Likelihood	Medium

The code should not contain TODO comments. Otherwise, it means that the code is not finalized and additional changes will be introduced in the future.

Path:

`./contracts/Crowdfunding.sol : createProject(),`

Recommendation: Add changes described in TODO comment.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

M02. Contradiction - Missing Validation

Impact	Medium
Likelihood	Medium

It is considered that the project should be consistent and contain no self-contradictions.

According to comment in `ICrowdfunding` the value of `Project.requiredVotePercentage` should be in boundaries 0-10000. However, in the functions the validation is missed.

According to the implementation of `setDonationFee()` the `donationFee` should be lower than 10000. However, in the function `createProject()` the validation is missed. Without this check and value greater than 10000, newly created plans will calculate that fee is bigger than the actual `amount` deposited.

According to good practice the values `projectData.owner`, `projectData.exchangeTokenAddress` should be different that 0x0 address. However, in the functions the validation is missed.

This may lead to unexpected value processed by the contract.

Path:

`./contracts/Crowdfunding.sol : createProject(),`

Recommendation: Provide documentation, comments and identifiers in code consciously, implement the validations.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

M03. Uninitialized Inheritance

Impact	Medium
Likelihood	Medium

The `Crowdfunding.sol` contract inherits `AccessControlUpgradeable` and `PausableUpgradeable` contracts; however, it does not initialize them.

This may lead to unexpected behavior and it is best practice to initialize all inherited contracts in the initialization.

Path:

```
./contracts/Crowdfunding.sol : initialize(),
```

Recommendation: Call `__Pausable_init()` and `__AccessControl_init()` in the initializer.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

M04. Contradiction

Impact	Medium
Likelihood	Medium

The NatSpec of the function `endTresholdVoting()` suggests that the function is used to start a voting session; however, the implementation ends a voting session.

Misleading NatSpec can lead to unexpected behavior.

Path:

```
./contracts/Crowdfunding.sol : endTresholdVoting(),
```

Recommendation: Correct NatSpec.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

■ Low

L01. Missing Zero Address Validation

Impact	Medium
Likelihood	Low

Address parameters are being used without checking against the possibility of 0x0.

This can lead to unwanted external calls to 0x0.

Path: ./contracts/Crowdfunding.sol : addNewSupportedToken()

Recommendation: Implement zero address checks.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

L02. Functions that Can Be Declared External

Impact	Low
Likelihood	Low

In order to save Gas, public functions that are never called in the contract should be declared as external.

Path:

```
./contracts/Crowdfunding.sol : initialize(),
```

Recommendation: Use the external attribute for functions never called from the contract.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

L03. Variables that Can Be Boolean

Impact	Low
Likelihood	Low

Some of the variables in Crowdfunding.sol are only used as 0s or 1s like flags. These could be declared as bool in order to increase readability and optimize storage.

Path:

```
./contracts/Crowdfunding.sol : *,
```

Recommendation: Use `bool` data type instead of `uint256` where it is appropriate.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

L04. Redundant Modifier Usage

Impact	Low
Likelihood	Medium

In some of the private functions, the same modifiers are used twice, both with the private functions and the functions that call them.

Unnecessary checks can decrease readability and decrease Gas efficiency.

Path:

```
./contracts/Crowdfunding.sol : startTresholdVoting(),  
deliberateVote(), resetVoteSession()
```

Recommendation: Remove redundant modifier calls.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

Informational

I01. Typos in Code

There are typos in several places in `Crowdfunding` and `ICrowdfunding`. It says `thresholds`; however, it should be `threshold`.

There are typos in several places in `ICrowdfunding`. It says `emited`; however, it should be `emitted`.

There are typos in several places in `Crowdfunding`. It says `lenght`; however, it should be `length`.

Paths:

`./contracts/Crowdfunding.sol : *`,

`./contracts/ICrowdfunding.sol : *`,

Recommendation: Fix typos.

Found in: `af8ce9eb0405098f53ed3d6584ec4bd3271c1941`

Status: **Reported** (In the NatSpec of `withdrawFundsToOtherProject()`, there is the type `beetween` which should be `between`)

I02. Style Guide Violation - Order of Layout

The project should follow the official code style guidelines. Inside each contract, library, or interface, use the following order:

- Type declarations
- State variables
- Events
- Modifiers
- Functions

Functions should be grouped according to their visibility and ordered:

- constructor
- receive function (if exists)
- fallback function (if exists)
- external
- public
- internal
- private

Within a grouping, place the view and pure functions at the end.

Paths:

`./contracts/Crowdfunding.sol : *`,


```
./contracts/ICrowdfunding.sol : *,
```

Recommendation: The official Solidity style guidelines should be followed.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

I03. Unused Variable

Unused variables should be removed from the contracts. Unused variables are allowed in Solidity and do not pose a direct security issue. It is best practice to avoid them as they can cause an increase in computations (and unnecessary Gas consumption) and decrease readability.

The variable `WITHDRAWER_ROLE` is never used.

Path:

```
./contracts/Crowdfunding.sol : WITHDRAWER_ROLE,
```

Recommendation: Remove unused variable.

Found in: af8ce9eb0405098f53ed3d6584ec4bd3271c1941

Status: Fixed (Revised commit: 84d6bd1)

I04. Style Guide Violation - Naming Conventions

The project should follow the official code style guidelines.

Each function should use mixedCase style for name declaration.

Path:

```
./contracts/Crowdfunding.sol : CheckAndStartThresholdVoting(),
```

Recommendation: The official Solidity style guidelines should be followed. Change name `CheckAndStartThresholdVoting()` to `checkAndStartThresholdVoting()` to fit naming convention for functions.

Found in: 84d6bd1534b0616214d1a493722bc7767ac9e40b

Status: New

Disclaimers

Hacken Disclaimer

The smart contracts given for audit have been analyzed based on best industry practices at the time of the writing of this report, with cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report (Source Code); the Source Code compilation, deployment, and functionality (performing the intended functions).

The report contains no statements or warranties on the identification of all vulnerabilities and security of the code. The report covers the code submitted and reviewed, so it may not be relevant after any modifications. Do not consider this report as a final and sufficient assessment regarding the utility and safety of the code, bug-free status, or any other contract statements.

While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only – we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts.

English is the original language of the report. The Consultant is not responsible for the correctness of the translated versions.

Technical Disclaimer

Smart contracts are deployed and executed on a blockchain platform. The platform, its programming language, and other software related to the smart contract can have vulnerabilities that can lead to hacks. Thus, the Consultant cannot guarantee the explicit security of the audited smart contracts.

Appendix 1. Severity Definitions

When auditing smart contracts Hacken is using a risk-based approach that considers the potential impact of any vulnerabilities and the likelihood of them being exploited. The matrix of impact and likelihood is a commonly used tool in risk management to help assess and prioritize risks.

The impact of a vulnerability refers to the potential harm that could result if it were to be exploited. For smart contracts, this could include the loss of funds or assets, unauthorized access or control, or reputational damage.

The likelihood of a vulnerability being exploited is determined by considering the likelihood of an attack occurring, the level of skill or resources required to exploit the vulnerability, and the presence of any mitigating controls that could reduce the likelihood of exploitation.

Risk Level	High Impact	Medium Impact	Low Impact
High Likelihood	Critical	High	Medium
Medium Likelihood	High	Medium	Low
Low Likelihood	Medium	Low	Low

Risk Levels

Critical: Critical vulnerabilities are usually straightforward to exploit and can lead to the loss of user funds or contract state manipulation.

High: High vulnerabilities are usually harder to exploit, requiring specific conditions, or have a more limited scope, but can still lead to the loss of user funds or contract state manipulation.

Medium: Medium vulnerabilities are usually limited to state manipulations and, in most cases, cannot lead to asset loss. Contradictions and requirements violations. Major deviations from best practices are also in this category.

Low: Major deviations from best practices or major Gas inefficiency. These issues won't have a significant impact on code execution, don't affect security score but can affect code quality score.

Impact Levels

High Impact: Risks that have a high impact are associated with financial losses, reputational damage, or major alterations to contract state. High impact issues typically involve invalid calculations, denial of service, token supply manipulation, and data consistency, but are not limited to those categories.

Medium Impact: Risks that have a medium impact could result in financial losses, reputational damage, or minor contract state manipulation. These risks can also be associated with undocumented behavior or violations of requirements.

Low Impact: Risks that have a low impact cannot lead to financial losses or state manipulation. These risks are typically related to unscalable functionality, contradictions, inconsistent data, or major violations of best practices.

Likelihood Levels

High Likelihood: Risks that have a high likelihood are those that are expected to occur frequently or are very likely to occur. These risks could be the result of known vulnerabilities or weaknesses in the contract, or could be the result of external factors such as attacks or exploits targeting similar contracts.

Medium Likelihood: Risks that have a medium likelihood are those that are possible but not as likely to occur as those in the high likelihood category. These risks could be the result of less severe vulnerabilities or weaknesses in the contract, or could be the result of less targeted attacks or exploits.

Low Likelihood: Risks that have a low likelihood are those that are unlikely to occur, but still possible. These risks could be the result of very specific or complex vulnerabilities or weaknesses in the contract, or could be the result of highly targeted attacks or exploits.

Informational

Informational issues are mostly connected to violations of best practices, typos in code, violations of code style, and dead or redundant code.

Informational issues are not affecting the score, but addressing them will be beneficial for the project.

Appendix 2. Scope

The scope of the project includes the following smart contracts from the provided repository:

Initial review scope

Repository	https://github.com/Krayt78/GiveUsContracts
Commit	af8ce9eb0405098f53ed3d6584ec4bd3271c1941
Whitepaper	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Requirements	https://github.com/Krayt78/GiveUsContracts#readme
Technical Requirements	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Contracts	File: contracts/Crowdfunding.sol SHA3: ab8fac6dfb88b4f5d17ed0699f0dbaef437ffa7cf1253853c314930d726dd154 File: contracts/ICrowdfunding.sol SHA3: b03691859738fd5a0621ccd3a32ea776ba9d742cdd3a08fa2352d522f1122983

Second review scope

Repository	https://github.com/Krayt78/GiveUsContracts
Commit	84d6bd1534b0616214d1a493722bc7767ac9e40b
Whitepaper	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Requirements	https://github.com/Krayt78/GiveUsContracts/tree/Audit-Changes#readme
Technical Requirements	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Contracts	File: contracts/Crowdfunding.sol SHA3: dd50a54518ced7dfff934e0fe29215c6e3f282e49da9f321ad0b074a95fe6aa9 File: contracts/ICrowdfunding.sol SHA3: 2d6f628385a458228de9a68f90fd692ab69ee735cd3672f2d6ab23525611cd4a

Third review scope

Repository	https://github.com/Krayt78/GiveUsContracts/tree/Audit-Changes
Commit	74e5746634be8f74042b38b7a0c982a2b82f2a36
Whitepaper	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Requirements	https://github.com/Krayt78/GiveUsContracts/tree/Audit-Changes#readme

Technical Requirements	https://giveus.gitbook.io/white-paper/i.-introduction/what-is-giveus
Contracts	<p>File: contracts/Crowdfunding.sol SHA3: dd50a54518ced7dfff934e0fe29215c6e3f282e49da9f321ad0b074a95fe6aa9</p> <p>File: contracts/ICrowdfunding.sol SHA3: 2d6f628385a458228de9a68f90fd692ab69ee735cd3672f2d6ab23525611cd4a</p>