

Blockchain Security | Smart Contract Audits | KYC



Global Guide

Audit

Security Assessment 1.August,2022

For







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Version	Date	Description
1.0	29.July,2022	Layout projectAutomated- /Manual-Security TestingSummary
1.0	31.July,2022	• Reaudit

Network

Binance (BSC)

Website

https://globalguide.app

Twitter

https://twitter.com/globalguideapp

Telegram

https://t.me/globalguideofficial

Discord

https://discord.gg/6ZZdUaHw7U

Instagram

https://www.instagram.com/globalguideapp/

Description

Global-Guide is the first web 3.0 Dapp that implements the Socialize-To-Earn concept in crypto.

Global Guide is aimed to become a global community of explorers who write reviews, share photos, share their locations, add or edit places on our Web 3.0 platform. We refer these activities as socializing.

The concept behind Global-Guide is one that is highly scalable and promising and also incredibly approachable to everyone. Users of Global-Guide can socialize to earn \$GGT tokens which can either be used in-game, or cashed out for profit. Meanwhile millions of people such as tourists can rely on their contributions to decide where to go and what to do. In order to socialize, users must own a camera NFT which is specifically designed to use for different scenes such as humans, foods, natures, events, architectures or seasons.

Project Engagement

During the 29th of July 2022, **Global Guide** team engaged Solidproof.io to audit the smart contracts that they created. The engagement was technical in nature and focused on identifying the security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo



Contract Links

v1.0

https://bscscan.com/address/0x1a40409C457Aa9D11286fbf8FbD02F5F405205 57#code

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level Value Vul		Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
 - Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
 - ii) Manual review of code, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
 - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
- 2. Testing and automated analysis that includes the following:
 - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
 - ii) Symbolic execution, which is analyzing a program to determine what inputs causes each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:



Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

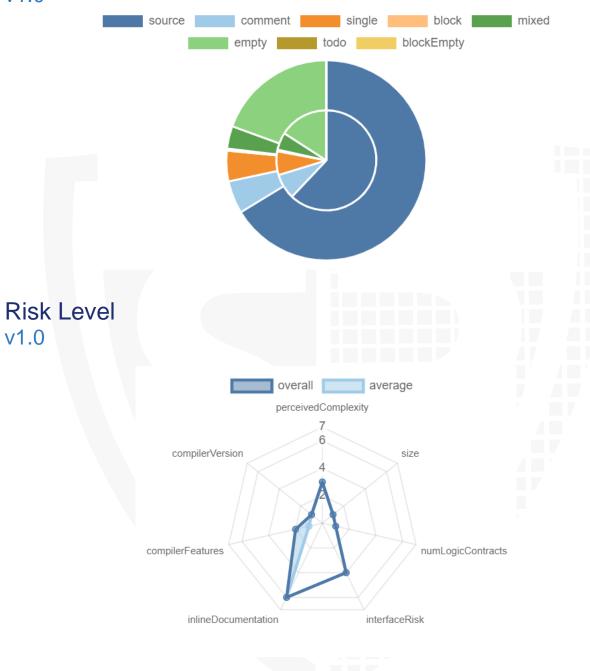
v1.0

File Name	SHA-1 Hash
contracts/GlobalGuideToken .sol	a79e7c63caa273d37022851d69bf9710eafc 7835

Metrics

Source Lines

v1.0



Capabilities

Components

Version Contracts		Libraries	Interfaces	Abstract
1.0	1	0	1	0

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Version	Public	Payable	
1.0	34	0	

Version	External	Internal	Private	Pure	View
1.0	32	21	0	5	13

State Variables

Version	Total	Public
1.0	8	4

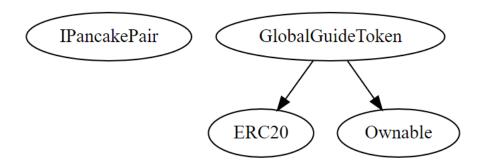
Capabilities

Version	Solidity Versions observed	Experime ntal Features	Can Receive Funds	Uses Assembly	Has Destroyab le Contracts
1.0	^0.8.0			Yes	

Version	Transfe rs ETH	Low- Level Calls	Deleg ateCal I	Uses Hash Function s	EC Rec ove r	New/Cre ate/Creat e2	
1.0				Yes	'		

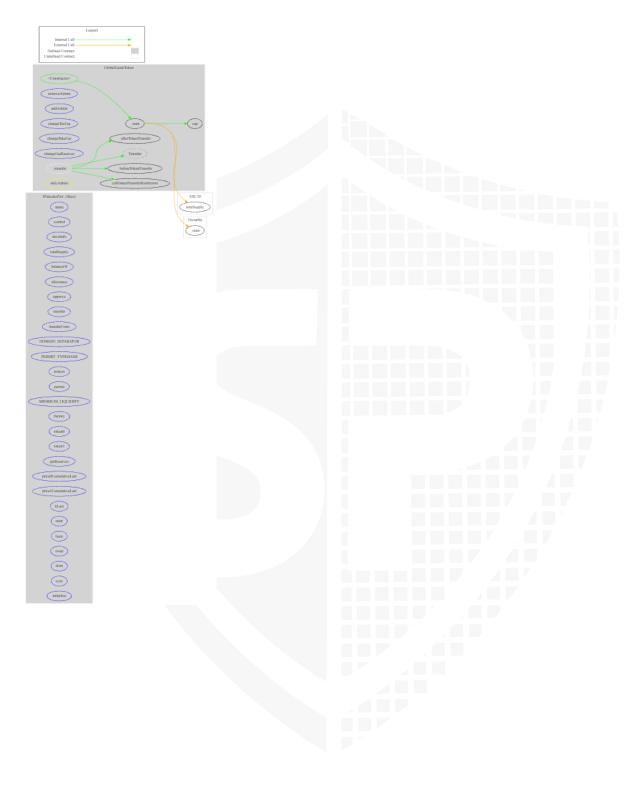
Inheritance Graph

v1.0



Call Graph

v1.0



Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

- 1. Is contract an upgradeable
- 2. Correct implementation of Token standard
- 3. Deployer cannot mint any new tokens
- 4. Deployer cannot burn or lock user funds
- 5. Deployer cannot pause the contract
- 6. Overall checkup (Smart Contract Security)

ls contract an upgradeable

Name	
Is contract an upgradeable?	No



Correct implementation of Token standard

	ERC20						
Function	Description	Exist	Tested	Verified			
totalSupply	Provides information about the total token supply						
balanceOf	Provides account balance of the owner's account						
transfer	Executes transfers of a specified number of tokens to a specified address						
transferFrom	Executes transfers of a specified number of tokens from a specified address						
approve	Allow a spender to withdraw a set number of tokens from a specified account						
allowance	Returns a set number of tokens from a spender to the owner						

Write functions of contracts v1.0 1. addAdmin 2. approve 3. callDetectTransferRestriction 4. changeFeeReceiver 5. changeTakeFee 6. changeTaxFee 7. decreaseAllowance 8. increaseAllowance 9. removeAdmin 10. renounceOwnership 11. transfer

12. transferFrom

13. transferOwnership

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint			
Max / Total Supply	N/A		

Comments:

• The tokens will be only once while deployment of the contract but the total supply will also be set by the deployer at the time of deployment

Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock			
Deployer cannot burn			

Comments:

• Please keep in mind that all the individuals can burn tokens from their own account or from another account if they have an allowance.

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause			



Overall checkup (Smart Contract Security)

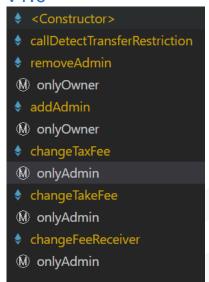
Tested	Verified

Legend

Attribute	Symbol
Verified / Checked	
Partly Verified	
Unverified / Not checked	
Not available	

Modifiers and public functions

v1.0



Comments:

- Some of the functions has a modifier "onlyAdmin" which allows multiple authorities
 to do certain actions in the contract and we have also noticed that the fee of the
 transaction is being transferred to the "feeReceiver".
- Moreover, there can be multiple wallets who can act as Admin in the contract.
- The authorities in control of the "onlyAdmin" other than the ones who controls the "owner" account can also modify the fees charge by the contract whenever they please.
- In conclusion, there can be multiple admins on this contract and all of those admins will have the permissions to change the following:
 - The fee status of the contract
 - The fee receiver address of the contract
 - The amount of fees charged by the contract

Source Units in Scope

v1.0

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
<u></u>	contracts/GlobalGuideToken.sol	1	1	265	157	121	16	146	ΕΞΣ
≥	Totals	1	1	265	157	121	16	146	<u>Β</u> <u></u> <u> </u> Σ

Legend

Attribute	Description		
Lines	total lines of the source unit		
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)		
nSLOC normalized source lines of code (only source-code lines; no comment blank lines)			
Comment Lines	lines containing single or block comments		
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces,)		

Audit Results

AUDIT PASSED

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

Issue	File	Туре	Line	Description
#1	Main	A floating pragma is set	3	The current pragma Solidity directive is ""^0.8.0".
#2	Main	Local variables shadowing	134,135	Rename the local variables that shadow another component. In this case, "name" and "symbol" is shadowing the variable with the ERC20 contract's variables

Informational issues

Issue	File	Type	Line	Description
#1	Main	Uninitialized local variables	228	Make sure to initialize all the variables
#2	Main	NatSpec documentation missing		If you started to comment your code, also comment all other functions, variables etc.

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information https://docs.soliditylang.org/en/v0.5.10/natspec-format.html) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

01. August, 2022:

- There is still an owner (Owner still has not renounced ownership)
- There are multiple authorities in the contract apart from owner that can modify certain aspects of the contract even after the ownership is renounced.
- · Read the whole report and modifiers section for more information.

SWC Attacks

I D	Title	Relationships	Status
S W C 1 3 6	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
S W C 1 3 5	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
S W C : 1 3 4	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
S W C : 1 3 3	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
S W C 1 3 2	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
<u>S</u> <u>W</u> <u>C</u> :	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED

1 3 1 S	Dista Tabata		
S W C : 1 3 0	Right-To-Left- Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
S W C : 1 2 9	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
S W C 1 2 8	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED
S W C 1 2 7	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
S W C 1 2 5	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
<u>S</u> <u>W</u> <u>C</u> <u>-</u>	Write to Arbitrary	CWE-123: Write-what-where Condition	PASSED

1 2 4	Storage Location		
S W C - 1 2 3	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
S W C : 1 2 2	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
S W C 1 2 1	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
S W C : 1 2 0	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
S W C : 1 1 9	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	NOT PASSED

S <u>W</u> C. 11 18	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
S W C - 1 1 7	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED
S W C 1 1 6	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
S W C - 1 1 5	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
S W C - 1 1 4	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
S W C : 1 1 3	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED

S W C - 1 1 2	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
S W C - 1 1 1	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
S W C - 1 1 0	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SI W CI - 1 0 9	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
S W C - 1 0 8	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
S W C - 1 0 7	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED

S W C 1 0 6	Unprotected SELFDESTR UCT Instruction	CWE-284: Improper Access Control	PASSED
S W C : 1 0 5	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
S W C : 1 0 4	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
S W C - 1 0 3	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	NOT PASSED
S W C - 1 0 2	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
S W C - 1 0 1	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED

S W C : 1 0 0	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
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