



Summary

Auditing Firm TRII DIENSTLEISTUNG SARL

Client Firm TRII Token

Architecture TRII DIENSTLEISTUNG Auditing Standard

Language Solidity

Mandatory Audit Check Static, Software, Auto Intelligent & Manual Analysis

Final Report Date August 22, 2022

Audit Summary

TRII DIENSTLEISTUNG team has performed a line-by-line manual analysis and automated review of the smart_contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

- ❖ TRII Token's smart contract source code has LOW RISK SEVERITY
- ❖ TRII Token's smart contract has an **ACTIVE OWNERSHIP**
- ❖ Important owner privileges BULK BLACKLIST, MAX TX & WALLET LIMIT, SET FEES, SET SELL FEES, SET HIGH FEES, SET COOLDOWN TIMER, SET TRADING STATUS

The smart contract owner has 30 "Write Contract" privileges. Centralization risk is HIGH with TRII Token. For the detailed understanding of risk severity, source code vulnerability, and functional test, kindly refer to the audit.

? Contract address: **0x0952b2b84342390E565Ff5463e6A49302d6e0E78**

Blockchain: Binance Smart Chain

Verify the authenticity of this report on the verified organization TRII-Token @ GitHub

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Project Overview

TRII DIENSTLEISTUNG was consulted by TRII Token to conduct the smart contract security audit of their solidity_source code.

About TRII Token

TRII Token is the next Generation of a reflection token on the Binance Smart Chain (BSC)

Hold \$TRII tokens and get rewarded from each transaction, delivered automatically to your_wallet.

Project	TRII Token
Blockchain	Binance Smart Chain
Language	Solidity
Contract	0x0952b2b84342390E565Ff5463e6A49302d6e0E78
Website	https://trii.eu
Telegram	https://t.me/TRIIToken
Twitter	https://twitter.com/TRII_Token
GitHub	https://github.com/TRII-Token

Project Logo



Solidity Source Code On Blockchain (Verified Contract Source Code)

https://bscscan.com/address/

0x0952b2b84342390E565Ff5463e6A49302d6e0E78#code

Contract Name: TRII Token

Compiler Version: v0.8.7+

Optimization Enabled: Yes with 200 runs

SHA-1 Hash

Solidity source code is audited at hash #e1af2e1b28fa91d8dc21268d2bf1fd1cfad933af

RIII I

Audit Scope & Methodology

The scope of this report is to audit the smart contract source code of TRII Token. TRII DIENSTLEISTUNG has scanned the contract and reviewed the project for common vulnerabilities, exploits, hacks, and back-doors. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

Categor

Smart Contract Vulnerabilities

Source Code Review

Functional Assessment

- Reentrancy
- Unhandled Exceptions
- Integer Overflow
- Unrestricted Action
- ❖ Incorrect Inheritance Order
- Typographical Errors
- Requirement Violation
- Ownership Takeover
- Gas Limit and Loops
- Deployment Consistency
- Repository Consistency
- Data Consistency
- Token Supply Manipulation
- * Access Control and Authorization
- Operations Trail and Event Generation
- Assets Manipulation
- Liquidity Access



TRII DIENSTLEISTUNG's Audit Standard

The aim of TRII DIENSTLEISTUNG's standard is to analyze the smart contract and identify the vulnerabilities and the hacks in the smart contract. Mentioned are the steps used by our company to assess the smart contract:

- 1. Solidity smart contract source code reviewal:
 - Review of the specifications, sources, and instructions provided to us to make sure we understand the size, scope, and functionality of the smart contract.
 - Manual review of code, which is the process of reading source code line-byline to identify potential vulnerabilities.
- 2. Static, Manual, and Software analysis:
 - Test coverage analysis, which is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
 - 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

Automated 3P frameworks used to assess the smart contract vulnerabilities

- Slither
- Consensys MythX, Mythril
- **❖** SWC Registry
- Solidity Coverage
- Open Zeppelin Code Analyzer
- Solidity Code Complier

TRII DIENSTLEISTUNG's Risk Classification

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract:

Vulnerable: A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false-positive.

Exploitable: A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the "vulnerability" flagged by a tool is in a function which requires to own the contract, it would be vulnerable but not exploitable.

Exploited: A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

Risk severity	Meaning
	This level vulnerabilities could be exploited easily, and can lead to
! Critical	asset loss, data loss, asset, or data manipulation. They should be fixed
	This level vulnerabilities are hard to exploit but very important to fix,
! High	they carry_an elevated risk of smart contract manipulation, which can
	lead to high-risk_severity
	This level vulnerabilities should be fixed, as they carry an inherent risk
! Medium	of future_exploits, and hacks which may or may not impact the smart
	This level vulnerabilities can be ignored. They are code style
! Low	violations, and informational statements in the code. They may not
	affect the smart contract_execution

<u>Smart Contract – Static Analysis</u>

Symbol	Meaning
P	Function can be modified
	Function is payable
ିହା	Function is locked
ब्रि	Function can be accessed
į	Important functionality
L _msgSen L _msgDat	* Library 🗐 🔎

```
| **TRII** | Implementation | Context, IERC20, Ownable |||
| L | name | Public | | | NO!! |
 L | symbol | Public | | NO!! |
| L | decimals | Public | | NO!
 L | totalSupply | Public | | | NO!! |
| L | balanceOf | Public | | NO! |
 L | allowance | Public | | NO!! |
| L | approve | Public !! | Public | NO!! |
| L | transferFrom | Public ! ! | 🔴 | NO!! |
| L | increase Allowance | Public !! | • | NO!
NO | | | transfer | Public | | NO | |
| L | isExcludedFromReward | Public | | | NO! |
| L | reflectionFromToken | Public | NO! |
| L | setTradingStatus| External | | |
                                ponlyOwner |
| L | tokenFromReflection | Public | | NO!! |
| L | excludeFromReward | Public | | 🕡 | onlyOwner
| | L | excludeFromFee | Public !! | | fp | | onlyOwner |
| L | includeInFee | Public !! | 🐌 | onlyOwner
| | L | isExcludedFromFee | Public!! | NO!! |
| L | setTaxes | Public | | | | | | | only Owner |
L | setHighTaxes | Public | [
                           nlyOwner | L
| reflectRfi | Private
| L | takeLiquidity | Private 🔐 🏻 🎒
| L | takeMarketing | Private 🔞 | 📭
| L | takeDev | Private 🔐 | 🔞
 L | takeTeam | Private 🔞 | 🕼
| L | getValues | Private 🔐 | |
 L | getTValues | Private 🔐 | | |
| L | getRValues1 | Private 🔐 | | |
 L | getRValues2 | Private 🔐 |
| L | getRate | Private 🔐 | | |
 L | getCurrentSupply | Private 👔 |
 L | approve | Private 🔐
| L | transfer | Private 🔞 | 🐠
 L | tokenTransfer | Private 🔐 📗 | |
| L | swapAndLiquify | Private 🔐 | 🐌 | lockTheSwap | | | | | |
| L | addLiquidity | Private 🔐 🛛 | |
| L | swapTokensForBNB | Private | |
| L | bulkExcludeFee | External 🚦 | 👔 | onlyOwner |
| L | updateMarketingWallet | External 🚦 | 🗿 | onlyOwner |
| L | updateDevWallet | External 🚦 | 🗿 | onlyOwner |
| L | updateTeamWallet | External 🚦 | 🗿 | | onlyOwner |
| L | updateCooldown| External | | | | | | | onlyOwner |
| L | updateSwapEnabled | External 🚦 | 📵 | | onlyOwner |
| L | updateIsBlacklisted| External 📘 | [ 🍑 nly Owner |
```

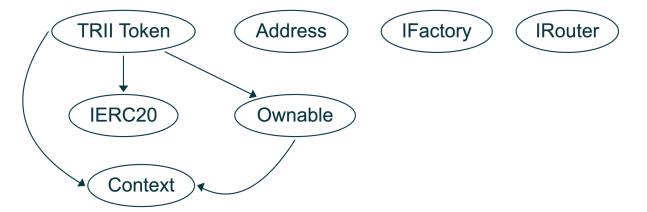
Smart Contract - Software Analysis

Function Signatures

```
39509351 => increaseAllowance(address,uint256)
119df25f => msgSender()
8b49d47e => msgData()
18160ddd => totalSupply()
70a08231 => balanceOf(address)
a9059cbb => transfer(address, uint256)
dd62ed3e => allowance(address,address)
095ea7b3 => approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
8 da 5 cb 5b => owner()
715018a6 => renounceOwnership()
f2fde38b => transferOwnership(address)
fc201122 => setOwner(address)
24a084df => sendValue(address,uint256)
c9c65396 => createPair(address,address)
c45a0155 => factory()
ad5c4648 => WETH()
f305d719 => addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
06 fdde03 => name()
95d89b41 => symbol()
313ce567 => decimals()
a457c2d7 => decreaseAllowance(address,uint256)
88f82020 => isExcludedFromReward(address)
4549b039 => reflectionFromToken(uint256,bool)
6ebfa4d2 => setTradingStatus(bool,uint256)
2d838119 => tokenFromReflection(uint256)
52390c02 => excludeFromReward(address)
3685d419 => includeInReward(address)
437823ec => excludeFromFee(address)
ea2f0b37 => includeInFee(address)
5342acb4 => isExcludedFromFee(address)
5 \text{ fcefa} 42 = \text{ setTaxes}(\text{uint} 256, \text{uint} 256, \text{uint} 256, \text{uint} 256, \text{uint} 256)
c791fc54 => setSellTaxes(uint256, uint256, uint256, uint256, uint256)
e0b1c674 => setHighTaxes(uint256,uint256,uint256,uint256)
e8ffedee => reflectRfi(uint256,uint256)
814bbf3f =>
              takeLiquidity(uint256, uint256)
916d2685 => _takeMarketing(uint256,uint256)
ff213ce2 => takeDev(uint256,uint256)
ddcb6360 => _takeTeam(uint256,uint256)
f86adbb6 => getValues(uint256,bool,bool,bool)
f8700692 => _getTValues(uint256,bool,bool,bool)
              getRValues1(valuesFromGetValues,uint256,bool,uint256)
21080db3 =>
c068776b => _getRValues2(valuesFromGetValues,bool,uint256)
```

```
94e10784 => getRate()
97a9d560 => _getCurrentSupply()
104e81ff => _approve(address,address,uint256)
ba4c825e => _transfer(address,address,uint256,bool)
1cfb26d9 => tokenTransfer(address,address,uint256,bool,bool,bool)
34eb180d => swapAndLiquify(uint256, Taxes)
9cd441da => addLiquidity(uint256,uint256)
56c3726b => swapTokensForBNB(uint256)
8e2839ff => bulkExcludeFee(address[],bool)
aacebbe3 => updateMarketingWallet(address)
1816467f => updateDevWallet(address)
7cb332bb => updateTeamWallet(address)
e517f2b9 => updateCooldown(bool,uint256)
d257b34f => updateSwapTokensAtAmount(uint256)
924de9b7 => updateSwapEnabled(bool)
5b24ea5e => updateIsBlacklisted(address,bool)
13f97a8e => bulkIsBlacklisted(address[],bool)
b5c57145 => updateAllowedTransfer(address,bool)
59759f61 => updateMaxTxLimit(uint256,uint256)
d8672e51 => updateMaxWalletlimit(uint256)
40b28c2f => updateRouterAndPair(address,address)
441b1d30 =  rescueBNB(uint256)
47c23092 => rescueAnyBEP20Tokens(address,address,uint256)
```

Inheritance Graph



<u>Smart Contract - Manual Analysis</u>

Function	Description Te	sted	Verdi	ict
	provides information about the total			
Total Supply	token_supply		Yes	Passed
	provides account balance of the			
Balance Of	owner's_account		Yes	Passed
Transfer	executes transfers of a specified number of		tok ens	to a specified
Approve	allow a spender to withdraw a set number of		tok ens	from a specified
Allowanaa	returns a set number of tokens from a			
Allowance	spender to_the owner		Yes	Passed
	is an action in which the project buys			
Buy Back	back its_tokens from the existing		NA	NA
	holders usually at a_market price			
D	executes transfers of a specified			
Burn	number of tokens to a burn address		NA	NA
3.51	executes creation of a specified		total	ly
Mint	number of tokens and adds it to the		supp	
	circulating token supply adjusts			
Rebase	(increases or_decreases) automatically		NA	NA
	according to a token's price fluctuations			
Blacklist	stops specified wallets from interacting with the		sma rt	contract function
	stops or locks all function modules of			
Lock	the smart_contract		NA	NA

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Function	Description	Tested	Verdict	
Dividend	executes transfers of a specified dividend token_to a specified address		NA	NA
Airdrop	executes transfers of a specified number of tokens to a specified address		NA	NA
Max Transaction	a non-whitelisted wallet can only transfer a_specified number of tokens		Yes	! Low
Max Wallet	a non-whitelisted wallet can only hold a specified number of tokens		Yes	! Low
C II T'	functionality to limit the number of		wit	a 24-
Cooldown Timer	transactions_that a wallet can make		hin	hour
Anti Bot	stops some or all bot wallets from interacting_with the smart contract		Yes	Passed
Anti Snipe	prevents bots from making transaction at _"addLiquidity" block		NA	NA
Transfer Ownership	executes transfer of contract ownership to a_specified wallet		Yes	Passed
Renounce	executes transfer of contract			
Ownership	ownership to a_dead address		Yes	Passed

Best Practices V

- Owner cannot stop or pause the smart contract.
- Owner cannot lock or burn the user assets.
- Owner cannot mint tokens after initial contract creation/deployment.
- The smart contract utilizes "SafeMath" function to avoid common smart contract vulnerabilities.

```
string private _ name = "TRII Token";
library SafeMath {
function add(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a + b;
    require(c >= a, "SafeMath: addition overflow");

function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    return sub(a, b, "SafeMath: subtraction overflow");

    uint256 c = a * b;

    require(c / a == b, "SafeMath: multiplication overflow");

    return c;

function div(uint256 a, uint256 b) internal pure returns (uint256) {
        return div(a, b, "SafeMath: division by zero");

function mod(uint256 a, uint256 b) internal pure returns (uint256) {
        return mod(a, b, "SafeMath: modulo by zero");
}
```

Note

- ❖ Active smart contract owner: 0x84F6384E694966Ab3Fbe50cD1F65028DE658ccd9
- * Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security.
- Smart contract owner can *bulk blacklist* certain wallets from interacting with the contract function modules.
- Smart contract owner can change transaction taxes and sell taxes. This function module can be used to impose extraordinary transaction fees. No arbitrary limit set.



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- Smart contract owner can *change high fees*. This function module can be used to impose extraordinary transaction fees. *No arbitrary limit set*.
- Smart contract owner can change max transaction and wallet %. The smart contract owner can change the value to "zero". No arbitrary limit set.
- Smart contract owner can set cooldown timer %.

<u>Smart Contract – SWC Attacks</u>

SWC ID	Description	Verdict
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	! Low
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects (Irrelevant/Dead Code)	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



Smart Contract - Risk Status & Radar Chart

Risk Severity Status

! Critical None critical severity issues identified

! High None high severity issues identified

! Medium None medium severity issues identified

! Low 6 low severity issues identified

Verified 54 functions and instances verified and checked



Auditor's Verdict

TRII DIENSTLEISTUNG team has performed a line-by-line manual analysis and automated review of the smart_contract. The smart contract was analyzed mainly for common smart contract vulnerabilities,_exploits, and manipulation hacks.

- ❖ TRII Token's smart contract source code has LOW RISK SEVERITY
- ❖ TRII Token's smart contract has an **ACTIVE OWNERSHIP**

Note for stakeholders

- Be aware that active smart contract owner privileges constitute an elevated impact on smart contract's safety and security.
- ❖ Make sure that the project team's KYC/identity is verified by an independent firm, e.g., TRII DIENSTLEISTUNG.
- Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in project's longevity. It is recommended to have multiple liquidity providers.
- Examine the unlocked token supply in the owner, developer, or team's private wallets.
 Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period of time.
- Ensure that the project's official website is hosted on a trusted platform, and is using an active SSL certificate. The website's domain should be registered for a longer period of time.

Important Disclaimer

TRII DIENSTLEISTUNG SARL provides contract auditing and project verification services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code, and to provide basic overview of the project. This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purposes without TRII DIENSTLEISTUNG's prior written consent.

TRII DIENSTLEISTUNG provides the easy-to-understand assessment of the project, and the smart contract_(otherwise known as the source code). The audit makes no statements or warranties on the security_of the code. It also cannot be considered as an enough assessment regarding the utility and safety_of the code, bug-free status, or any other statements of the contract. While we have used all the_data at our disposal to provide the transparent analysis, 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. Be aware that smart contracts_deployed on a blockchain aren't resistant from external vulnerability, or a hack. Be aware that_active smart contract owner privileges constitute an elevated impact to smart contract's safety_and security. Therefore, TRII DIENSTLEISTUNG does not guarantee the explicit security of the audited smart_contract.

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

This report should not be considered as an endorsement or disapproval of any project or team.

The information provided on this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your own due diligence and consult your financial advisor before making any investment decisions

TRII DIENSTLEISTUNG SARL

About TRII DIENSTLEISTUNG SARL

TRII DIENSTLEISTUNG SARL has its HQ in the amazing city Casablanca in Morocco and provides IT-

Services and intelligent blockchain solutions. TRII DIENSTLEISTUNG is developing an ecosystem

that is seamless and responsive. Some of our services: Blockchain Security, IaaS, SaaS, PaaS,

Telecommunication Technologies, IT-Security and many more. TRII DIENSTLEISTUNG's

Blockchain services are there to interconnect multiple services like Blockchain Security, under

one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and

easy-to-use.

TRII DIENSTLEISTUNG is built by a Moroccan / German team of UI experts, contributors,

engineers. Our Blockchain services team currently consists of 5 core team members, and 2+

casual contributors. TRII DIENSTLEISTUNG provides manual, static, and automatic smart

contract analysis, to ensure_that project is checked against known attacks and potential

vulnerabilities.

To learn more, visit https://trii.sarl

Etg 1 APPT 3, 26 Av. Mers Sultan, Casablanca 20006, Maroc

Royaume du Maroc Ministère de la Justice Tribunal de commerce, Casablanca

Registre du Commerce

(N° I.C.E): 002935374000013

Inscriptions Portées au registre analytique N°: 519805

TAX-ID: 519805

SOCIETE A RESPONSABILITE LIMITEE (SARL)

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