

### **SMART CONTRACT SECURITY AUDIT OF**

# S-CRO



SMART CONTRACT AUDIT | SOLIDITY DEVELOPMENT & TESTING | PROJECT EVALUATION

RELENTLESSLY SECURING THE PUBLIC BLOCKCHAIN



### **Audit Introduction**

**Auditing Firm** InterFi Network

Audit Architecture InterFi Echelon Auditing Standard

**Language** Solidity

Client Firm S-CRO

Website <a href="https://www.s-cro.finance/">https://www.s-cro.finance/</a>

Telegram <a href="https://t.me/scro\_coin/">https://t.me/scro\_coin/</a>

Twitter <a href="https://twitter.com/scroholdings/">https://twitter.com/scroholdings/</a>

Report Date April 08, 2022

#### **About S-CRO**

S-CRO is the world's first recognized cryptocurrency Escrow with recall, KYC and time lock features.



## **Audit Summary**

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- S-CRO's solidity source code has LOW RISK SEVERITY
- ❖ S-CRO's smart contract has an ACTIVE OWNERSHIP
- S-CRO's centralization risk correlated to the active owner is MEDIUM
- Important owner privileges BLACKLIST, AIRDROP, MAX TRANSACTION AND WALLET LIMIT,
  SET FEES, SET MULTIPLIERS, SET LAUNCH STATUS

Be aware that smart contracts deployed on the blockchain aren't resistant to internal exploit, external vulnerability, or hack. For a detailed understanding of risk severity, source code vulnerability, exploitability, and audit disclaimer, kindly refer to the audit.

- Contract address: 0xd251B28563B55682e02547F86dE281Ba764D5D99
- 🖁 Blockchain: Binance Smart Chain
- Verify the authenticity of this report on InterFi's GitHub: <a href="https://github.com/interfinetwork">https://github.com/interfinetwork</a>



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## **Audit Scope**

InterFi was consulted by S-CRO to conduct the smart contract security audit of their solidity source codes. The audit scope of work is strictly limited to the mentioned solidity file(s) only:

SCROHOLDINGSLLC.sol

### Solidity Source Code On Blockchain (Verified Contract Source Code)

https://bscscan.com/address/0xd251b28563b55682e02547f86de281ba764d5d99#code

Contract Name: SCROHOLDINGSLLC

Compiler Version: v0.8.12

Optimization Enabled: Yes with 200 runs

### Solidity Source Code On InterFi GitHub

https://github.com/interfinetwork/audited-codes/blob/main/S-CRO.sol

#### SHA-1 Hash

Solidity source code is audited at hash #24119985a7138d09414ea290353915cecfcf2f6b



## **Audit Methodology**

The scope of this report is to audit the smart contract source code of S-CRO. InterFi has scanned contracts and reviewed codes for common vulnerabilities, exploits, hacks, and back-doors. Due to being out of scope, InterFi has not tested contracts on testnet to assess any functional flaws. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

#### Category

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

#### **Smart Contract Vulnerabilities**

#### **Source Code Review**



#### InterFi's Echelon Audit Standard

The aim of InterFi's "Echelon" standard is to analyze smart contracts and identify the vulnerabilities and the hacks. Kindly note, InterFi does not test smart contracts on testnet. It is recommended that smart contracts are thoroughly tested prior to the audit submission. Mentioned are the steps used by InterFi to audit smart contracts:

- 1. Solidity smart contract source code reviewal:
  - Review of the specifications, sources, and instructions provided to InterFi to make sure we understand the size, and scope of the smart contract audit.
  - Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.
- 2. Static, Manual, and Software analysis:
  - \* Test coverage analysis 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 is analyzing a program to determine what inputs cause each part of a program to execute.
    Simplificact
- 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

#### <u>Automated 3P frameworks used to assess the smart contract vulnerabilities</u>

- Consensys Tools
- SWC Registry
- Solidity Coverage
- Open Zeppelin Code Analyzer
- Solidity Code Complier



### **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 that requires owning 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 Security Audit	
! High	This level vulnerabilities could be exploited easily and can lead to asset loss,	
	data loss, asset, or data manipulation. They should be fixed right away.	
! Medium	This level vulnerabilities are hard to exploit but very important to fix, they carry	
	an elevated risk of smart contract manipulation, which can lead to high-risk	
	severity	
! Low	This level vulnerabilities should be fixed, as they carry an inherent risk of future	
	exploits, and hacks which may or may not impact the smart contract execution.	
! Informational	This level vulnerabilities can be ignored. They are code style violations and	
	informational statements in the code. They may not affect the smart contract	
	execution	



### **Centralization Risk**

Centralization risk is the most common cause of decentralized finance hacks. When a smart contract has an active contract ownership, the risk related to centralization is elevated. There are some well-intended reasons to be an active contract owner, such as:

- Contract owner can be granted the power to pause() or lock() the contract in case of an external attack.
- Contract owner can use functions like, include(), and exclude() to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale, and to list on an exchange.

Authorizing a full centralized power to a single body can be dangerous. Unfortunately, centralization related risks are higher than common smart contract vulnerabilities. Centralization of ownership creates a risk of rug pull scams, where owners cash out tokens in such quantities that they become valueless. **Most important question to ask here is, how to mitigate centralization risk?** Here's InterFi's recommendation to lower the risks related to centralization hacks:

- Smart contract owner's private key must be carefully secured to avoid any potential hack.
- Smart contract ownership should be shared by multi-signature (multi-sig) wallets.
- Smart contract ownership can be locked in a contract, user voting, or community DAO can be introduced to unlock the ownership.

#### S-CRO's Centralization Status

- S-CRO's smart contract has an active ownership.
- Smart contract ownership is set to 0x690bb93ac4d9fadc2387991ba9077a463071ae05 at the time of the audit.



## **Static Analysis**

## 

```
| L | sub | Internal 🔒 |
| L | sub | Internal 🔒 |
| L | mul | Internal 🔒 |
 └ | div | Internal 🗎 |
| L | div | Internal 🗎 | | |
| **IBEP20** | Interface | |||
| L | totalSupply | External ! | NO! |
| L | decimals | External ! | NO! |
| L | symbol | External | | NO! |
| L | name | External ! | NO! |
| L | getOwner | External ! | NO! |
| L | balanceOf | External ! | NO! |
| L | transfer | External ! | G | NO! |
| L | allowance | External ! | NO! |
| L | approve | External ! | 🔎 |NO! |
| L | transferFrom | External ! | • | NO! |
| **<mark>Auth</mark>** | Implementation | |||
| L | <Constructor> | Public ! | • | NO! |
| L | authorize | Public ! | 📦 | onlyOwner |
| L | unauthorize | Public ! | 🔎 | onlyOwner |
| L | isOwner | Public ! | NO! |
| L | isAuthorized | Public ! | NO! |
| L | transferOwnership | Public ! | • | onlyOwner |
| **IDEXFactory** | Interface | |||
| L | createPair | External ! | 🔎 |NO! |
\Pi\Pi\Pi\Pi
```



```
| **IDEXRouter** | Interface | |||
| L | factory | External ! |
| L | WETH | External ! | NO! |
| L | addLiquidityETH | External ! | 💹 |NO! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🛑 | NO! |
| **SCROHOLDINGSLLC** | Implementation | IBEP20, Auth |||
| └ | <Constructor> | Public ! | ● | Auth |
| L | <Receive Ether> | External ! | 🕮 |NO! |
| L | totalSupply | External ! | NO! |
| L | decimals | External ! | NO! |
| L | symbol | External ! | NO! |
| L | name | External ! | NO! |
| L | getOwner | External ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | allowance | External ! | NO! |
| L | approve | Public ! | • | NO! |
| L | approveMax | External ! | 🔎 |NO! |
| L | transfer | External ! | 🛑 |NO! |
| L | transferFrom | External ! | • | NO! |
| L | setMaxWalletPercent_base1000 | External ! | • | onlyOwner |
| L | setMaxTxPercent_base1000 | External ! | • | onlyOwner |
| L | setTxLimit | External ! | 📦 | authorized |
| L | _transferFrom | Internal 🗎 | 🔍 | |
| L | takeFee | Internal 🗎 | 🛑 | |
| └ | clearStuckBalance | External ! | ● | onlyOwner |
| L | clearStuckToken | Public ! | 🛑 | onlyOwner |
| L | setMultipliers | External ! | • | authorized |
| L | tradingStatus | External ! | • | onlyOwner |
| L | tradingStatus_launchmode | External ! | OnlyOwner |
| └ | swapBack | Internal 🔒 | 🔴 | swapping |
| L | manage_blacklist_status | External ! | Description | onlyOwner |
| L | manage_blacklist | Public ! | • | onlyOwner |
| L | manage_FeeExempt | External ! | O | authorized |
| └ | manage_TxLimitExempt | External ! | ● | authorized |
| L | manage_WalletLimitExempt | External ! | Description | authorized |
| L | setFees | External ! | Page | onlyOwner |
| L | setFeeReceivers | External ! | • | onlyOwner |
| └ | setSwapBackSettings | External ! | ● | onlyOwner |
| L | setTargetLiquidity | External ! | Particular | OnlyOwner |
| L | getCirculatingSupply | Public ! | NO! |
| L | multiTransfer | External ! | • | onlyOwner |
```



## Software Analysis

#### **Function Signatures**

```
771602f7 => add(uint256,uint256)
b67d77c5 => sub(uint256,uint256)
e31bdc0a => sub(uint256,uint256,string)
c8a4ac9c => mul(uint256,uint256)
a391c15b => div(uint256,uint256)
b745d336 => div(uint256,uint256,string)
18160ddd => totalSupply()
313ce567 \Rightarrow decimals()
95d89b41 => symbol()
06fdde03 => name()
893d20e8 \Rightarrow get0wner()
70a08231 \Rightarrow balanceOf(address)
a9059cbb => transfer(address,uint256)
dd62ed3e => allowance(address,address)
095ea7b3 => approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
b6a5d7de => authorize(address)
f0b37c04 => unauthorize(address)
2f54bf6e => is0wner(address)
fe9fbb80 => isAuthorized(address)
f2fde38b => transfer0wnership(address)
c9c65396 => createPair(address,address)
c45a0155 => factorv()
ad5c4648 \Rightarrow WETH()
f305d719 => addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
571ac8b0 => approveMax(address)
09302dc6 => setMaxWalletPercent_base1000(uint256)
bd9ab537 => setMaxTxPercent base1000(uint256)
5c85974f => setTxLimit(uint256)
cb712535 => transferFrom(address,address,uint256)
f0774e71 => _basicTransfer(address,address,uint256)
0cfde3fa => takeFee(address,uint256,address)
0d5c6cea => shouldSwapBack()
1da1db5e => clearStuckBalance(uint256)
77b54bad => clearStuckToken(address,uint256)
6ce46bc3 => setMultipliers(uint256,uint256,uint256)
034c4897 => tradingStatus(bool,bool)
9cd1aef1 => tradingStatus_launchmode(uint256)
6ac5eeee => swapBack()
034fc0b7 => manage_blacklist_status(bool)
8e2eee84 => manage blacklist(address[],bool)
00bff446 => manage_FeeExempt(address[],bool)
4be9d869 => manage TxLimitExempt(address[],bool)
```



```
00108683 => manage_WalletLimitExempt(address[],bool)
```

04a66b48 => setFees(uint256,uint256,uint256,uint256)

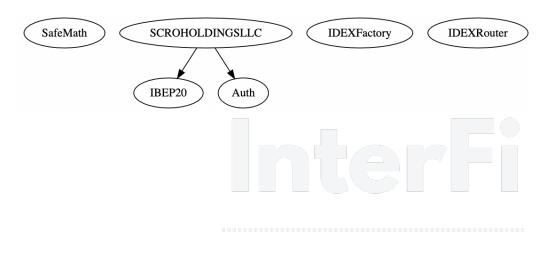
18abb635 => setFeeReceivers(address,address,address,address)

df20fd49 => setSwapBackSettings(bool,uint256)
201e7991 => setTargetLiquidity(uint256,uint256)

2b112e49 => getCirculatingSupply()

1ca0a28d => multiTransfer(address,address[],uint256[])

### **Inheritance Graph**



Smart Contract
Security Audit



# **Manual Analysis**

Function	Description	Available	Status
Total Supply	provides information about the total token	.,	
	supply	Yes	Passed
Delemas Of	provides account balance of the owner's		
Balance Of	account	Yes	Passed
Tuerrafau	executes transfers of a specified number of		
Transfer	tokens to a specified address	Yes	Passed
	allow a spender to withdraw a set number of		
Approve	tokens from a specified account	Yes	Passed
	returns a set number of tokens from a spender to		
Allowance	the owner	Yes	Passed
	is an action in which the project buys back its		
Buy Back	tokens from the existing holders usually at a	NA	NA
	market price and the Contract		
	executes transfers of a specified number of		
Burn	tokens to a burn address	NA	NA
Mint	executes the creation of a specified number of		
	tokens and adds it to the total supply	NA	NA
	circulating token supply adjusts (increases or		
Rebase	decreases) automatically according to a token's	NA	NA
	price fluctuations		
Dividend	executes transfers of a specified dividend token		
	to a specified address	NA	NA
Lock	stops or locks all function modules of the smart		
	contract	NA	NA



Function	Description	Tested	Verdict
Blacklist	stops specified wallets from interacting with the smart contract function modules	Yes	! Low
Airdrop	executes transfers of a specified number of tokens to a specified address	Yes	Passed
Max Transaction	a non-whitelisted wallet can only transfer a specified number of tokens	Yes	Passed
Max Wallet	a non-whitelisted wallet can only hold a specified number of tokens	Yes	Passed
Contract Fees	executes fee collection from swap events and/or transfer events	Yes	Passed
Cooldown Timer	functionality to limit the number of transactions that a wallet can make within 24-hours	NA	NA
Anti Bot	stops some or all bot wallets from interacting with the smart contract	Yes	Passed
Transfer Ownership	executes transfer of contract ownership to a specified wallet	Yes	Passed
Renounce Ownership	executes transfer of contract ownership to a dead address	Yes	Passed



### Notable Information

Smart contract owner can authorize a wallet to modify "write contract" parameters. When ownership is transferred, previous owner should not remain authorized.

```
function transferOwnership(address payable adr) public onlyOwner {
    require(adr != owner, "Already the owner");
    authorizations[owner] = false;
    owner = adr;
    authorizations[adr] = true;
    emit OwnershipTransferred(adr);
```

- Smart contract owner can **change trading status**, this function module may be used to stop the users from buying, selling or transferring assets.
- Smart contract utilizes safemath function to avoid common smart contract vulnerabilities.

```
string private _name = "S-CRO";
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");
```

Smart contract owner can **blacklist** certain wallets from interacting with the contract function modules.

```
function manage_blacklist(address[] calldata addresses, bool status) public onlyOwner {
    require(addresses.length < 201,"GAS Error: max limit is 200 addresses");
    if(status) {
        require(launchMode,"Cannot manually blacklist after launch");
    }
}</pre>
```



Smart contract owner can **change transaction fees**. Maximum fee limits are set to allow the value change within the set parameters.

```
<u>require</u>(totalFee.mul(buyMultiplier).div(100) < 33, "Tax cannot be more than 32\%"); 
<u>require</u>(totalFee.mul(sellMultiplier).div(100) < 33, "Tax cannot be more than 32\%");
```

Smart contract owner can change max transaction limit. Minimum limit is set to allow the value change within the set parameters.

```
function setMaxTxPercent_base1000(uint256 maxTXPercentage_base1000) external only0wner {
    require(maxTXPercentage_base1000 >= 1,"Cannot set max transaction less than 0.1%");
function setTxLimit(uint256 amount) external authorized {
    require(amount >= (_totalSupply/1000),"Cannot set max transaction less than 0.1%");
```

Smart contract owner can change max wallet limit. Minimum limit is set to allow the value change within the set parameters.

```
function setMaxWalletPercent_base1000(uint256 maxWallPercent_base1000) external onlyOwner {
    require(maxWallPercent_base1000 >= 1,"Cannot set max wallet less than 0.1%");
```

Security Audit



## **SWC Attacks**

SWC ID	Description	Status
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	! Informational
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELF-DESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation Smart Contract	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  Security Audit	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with the hardcoded gas amount	Passed
SWC-135	Code With No Effects (Irrelevant/Dead Code)	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



## **Risk Status & Radar Chart**

Risk Severity	Status
High	No high severity issues identified
Medium	No medium severity issues identified
Low	1 low severity issue identified
Informational	1 informational severity issue identified
Centralization Risk	Active contract ownership identified
	Compiler Check  100  90  Interface Safety  85  Static Analysis

Software Analysis



Manual Analysis

### **Auditor's Verdict**

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- S-CRO's smart contract source code has LOW RISK SEVERITY
- S-CRO's smart contract has an ACTIVE OWNERSHIP
- S-CRO's centralization risk correlated to the active owner is MEDIUM



#### **Note for stakeholders**

- Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security.
- If the smart contract is not deployed on any blockchain at the time of the audit, the contract can be modified or altered before blockchain development. Verify contract's deployment status in the audit report.
- Make sure that the project team's KYC/identity is verified by an independent firm.
- Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the 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.



## **Important Disclaimer**

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

InterFi 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 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 to external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security. Therefore, InterFi 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 in 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 due diligence and consult your financial advisor before making any investment decisions.



### **About InterFi Network**

InterFi Network provides intelligent blockchain solutions. InterFi is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. InterFi's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy to use.

InterFi is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 6+ core team members, and 10+ casual contributors. InterFi provides manual, static, and automatic smart contract analysis, to ensure that project is checked against known attacks and potential vulnerabilities.

To learn more, visit <a href="https://interfi.network">https://interfi.network</a>

To view our audit portfolio, visit <a href="https://github.com/interfinetwork">https://github.com/interfinetwork</a>

To book an audit, message <a href="https://t.me/interfiaudits">https://t.me/interfiaudits</a>



