



# SMART CONTRACT AUDIT



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PREPARED FOR

**GIFTYCOIN**



# INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	GiftyCoin
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0x44199D1C8cBC37f1771eD4DA95d70ee972942A20
Blockchain	Binance Smart Chain
Centralization	Active ownership
Commit	3a37dc6784a3d7795292d44490b1e36365dcfd26
Website	<a href="http://giftycoin.com/">http://giftycoin.com/</a>
Telegram	<a href="https://t.me/GiftyCoin_GIFTS/">https://t.me/GiftyCoin_GIFTS/</a>
Twitter	<a href="https://twitter.com/GiftyCoin/">https://twitter.com/GiftyCoin/</a>
YouTube	<a href="https://www.youtube.com/@GiftyCoin/">https://www.youtube.com/@GiftyCoin/</a>
Report Date	May 30, 2023


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## EXECUTIVE SUMMARY

InterFi has performed the automated and manual analysis of solidity codes. Solidity codes were reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical <span style="color: red;">●</span>	Major <span style="color: orange;">●</span>	Medium <span style="color: yellow;">●</span>	Minor <span style="color: green;">●</span>	Unknown <span style="color: brown;">●</span>
Open	0	0	0	0	0
Acknowledged	0	1	0	6	1
Resolved	0	0	0	1	1
Noteworthy Privileges	Set Fees, Set Wallet Limits, Change Pair, Set Swap Threshold				

 Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

 Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



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## SCOPE OF WORK

InterFi was consulted by GiftyCoin to conduct the smart contract audit of their solidity source codes.

The audit scope of work is strictly limited to mentioned solidity file(s) only:

- GiftyCoin\_GIFTS.sol

 If source codes are not deployed on the main net, they can be modified or altered before main-net deployment. Verify the contract's deployment status below:

Public Contract Link	
<a href="https://bscscan.com/token/0x44199D1C8cBC37f1771eD4DA95d70ee972942A20#code">https://bscscan.com/token/0x44199D1C8cBC37f1771eD4DA95d70ee972942A20#code</a>	
Contract Name	GiftyCoin_GIFTS
Compiler Version	0.8.19
License	Unlicensed



# AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of InterFi's auditing process and methodology:

## CONNECT

- The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

## AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
  - Remix IDE Developer Tool
  - Open Zeppelin Code Analyzer
  - SWC Vulnerabilities Registry
  - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.

We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

Centralized Exploits	<ul style="list-style-type: none"><li>○ Token Supply Manipulation</li><li>○ Access Control and Authorization</li><li>○ Assets Manipulation</li><li>○ Ownership Control</li><li>○ Liquidity Access</li><li>○ Stop and Pause Trading</li><li>○ Ownable Library Verification</li></ul>
----------------------	---



## Common Contract Vulnerabilities

- Integer Overflow
- Lack of Arbitrary limits
- Incorrect Inheritance Order
- Typographical Errors
- Requirement Violation
- Gas Optimization
- Coding Style Violations
- Re-entrancy
- Third-Party Dependencies
- Potential Sandwich Attacks
- Irrelevant Codes
- Divide before multiply
- Conformance to Solidity Naming Guides
- Compiler Specific Warnings
- Language Specific Warnings

**REPORT**

- The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.
- The client's development team reviews the report and makes amendments to solidity codes.
- The auditing team provides the final comprehensive report with open and unresolved issues.

**PUBLISH**

- The client may use the audit report internally or disclose it publicly.

 It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.



## RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical 	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major 	These risks 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.
Medium 	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk re-entrancy-related vulnerabilities should be fixed to deter exploits.
Minor 	These risks do not pose a considerable risk to the contract or those who interact with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown 	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.





## CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- Privileged roles can be granted the power to pause( ) the contract in case of an external attack.
- Privileged roles 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 privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- The client can lower centralization-related risks by implementing below mentioned practices:
- Privileged role's private key must be carefully secured to avoid any potential hack.
- Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- Renouncing the contract ownership, and privileged roles.
- Remove functions with elevated centralization risk.







 Understand the project's initial asset distribution. Assets in the liquidity pair should be locked. Assets outside the liquidity pair should be locked with a release schedule.



# AUTOMATED ANALYSIS

Symbol	Definition
	Function modifies state
	Function is payable
	Function is internal
	Function is private
	Function is important

```

| **IERC20** | Interface | |||
|  L | name | External ! | |NO ! |
|  L | symbol | External ! | |NO ! |
|  L | decimals | External ! | |NO ! |
|  L | totalSupply | External ! | |NO ! |
|  L | balanceOf | External ! | |NO ! |
|  L | allowance | External ! | |NO ! |
|  L | approve | External ! |  |NO ! |
|  L | transfer | External ! |  |NO ! |
|  L | transferFrom | External ! |  |NO ! |
|||||
| **Context** | Implementation | |||
|  L | _msgSender | Internal  | | |
|  L | _msgData | Internal  | | |
|||||
| **IUniswapV2Factory** | Interface | |||
|  L | createPair | External ! |  |NO ! |
|||||

```



```

| **IUniswapV2Router02** | Interface | |||
|  L | factory | External ! | |NO ! |
|  L | WETH | External ! | |NO ! |
|  L | addLiquidity | External ! | 🚫 |NO ! |
|  L | addLiquidityETH | External ! | 🚫 |NO ! |
|  L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🚫 |NO ! |
|||||
| **GiftyCoin_GIFTS** | Implementation | Context, IERC20 |||
|  L | <Constructor> | Public ! | 🚫 |NO ! |
|  L | Social_Media_Links | External ! | |NO ! |
|  L | Token_Information | External ! | |NO ! |
|  L | F01_Set_Fees_on_BUY | External ! | 🚫 | onlyOwner |
|  L | F02_Set_Fees_on_SELL | External ! | 🚫 | onlyOwner |
|  L | F03_Set_Wallet_Limits | External ! | 🚫 | onlyOwner |
|  L | F04_Open_Trade | External ! | 🚫 | onlyOwner |
|  L | Update_Social_Links | External ! | 🚫 | onlyOwner |
|  L | Update_Wallet__Liquidity | External ! | 🚫 | onlyOwner |
|  L | Update_Wallet__Marketing | External ! | 🚫 | onlyOwner |
|  L | Update_Wallet__Tokens | External ! | 🚫 | onlyOwner |
|  L | Maintenance__Free_Wallet_Transfers | Public ! | 🚫 | onlyOwner |
|  L | Maintenance__Liquidity_Pair_ADD | External ! | 🚫 | onlyOwner |
|  L | Maintenance__Liquidity_Pair_REMOVE | External ! | 🚫 | onlyOwner |
|  L | Ownership_Transfer_REQUEST_by_Owner | External ! | 🚫 | onlyOwner |
|  L | Ownership_Transfer_CONFIRM_by_CoOwner | External ! | 🚫 |NO ! |
|  L | Ownership_Renounce_REQUEST_by_Owner | External ! | 🚫 | onlyOwner |
|  L | Ownership_Renounce_CONFIRM_by_CoOwner | External ! | 🚫 |NO ! |
|  L | Ownership_Change_CoOwner_REQUEST_by_Owner | External ! | 🚫 | onlyOwner |
|  L | Ownership_Change_CoOwner_CONFIRM_by_CoOwner | External ! | 🚫 |NO ! |

```

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```

| L | Processing__Auto_Process | External ! | ● | onlyOwner |
| L | Processing__Process_Now | External ! | ● | onlyOwner |
| L | Processing__Swap_Trigger_Count | External ! | ● | onlyOwner |
| L | Processing__Rescue_Tokens | External ! | ● | onlyOwner |
| L | Rewards_Exclude_Wallet | Public ! | ● | onlyOwner |
| L | Rewards_Include_Wallet | External ! | ● | onlyOwner |
| L | Wallet_Settings__Exclude_From_Fees | External ! | ● | onlyOwner |
| L | Wallet_Settings__Exempt_From_Limits | External ! | ● | onlyOwner |
| L | Wallet_Settings__Pre_Launch_Access | External ! | ● | onlyOwner |
| L | owner | Public ! | | NO ! |
| 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 | increaseAllowance | Public ! | ● | NO ! |
| L | decreaseAllowance | Public ! | ● | NO ! |
| L | approve | Public ! | ● | NO ! |
| L | _approve | Private 🔒 | ● | |
| L | tokenFromReflection | Internal 🔒 | | |
| L | _getRate | Private 🔒 | | |
| L | _getCurrentSupply | Private 🔒 | | |
| L | transfer | Public ! | ● | NO ! |
| L | transferFrom | Public ! | ● | NO ! |
| L | send_BNB | Internal 🔒 | ● | |
| L | getCirculatingSupply | Public ! | | NO ! |

```

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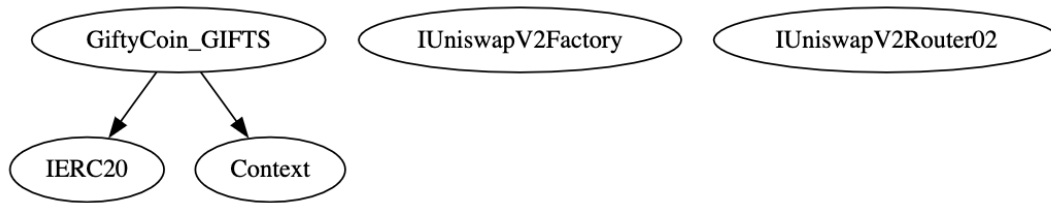


	^		_transfer		Private		🔒		🔴		
	^		swapAndLiquify		Private		🔒		🔴		
	^		swapTokensForBNB		Private		🔒		🔴		
	^		addLiquidity		Private		🔒		🔴		
	^		_tokenTransfer		Private		🔒		🔴		
	^		<Receive Ether>		External		!		👤		NO !

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## INHERITANCE GRAPH



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## MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralized privileges	Major 🟡
GIF-02	Pre-launch access is provided to some wallets before trade is enabled	

onlyOwner centralized privileges are listed below:

```

F01_Set_Fees_on_BUY()
F02_Set_Fees_on_SELL()
F03_Set_Wallet_Limits()
F04_Open_Trade()
Update_Social_Links()
Update_Wallet__Liquidity()
Update_Wallet__Marketing()
Update_Wallet__Tokens()
Maintenance__Free_Wallet_Transfers()
Maintenance__Liquidity_Pair_ADD()
Maintenance__Liquidity_Pair_REMOVE()
Ownership_Transfer_REQUEST_by_Owner()
Ownership_Transfer_CONFIRM_by_CoOwner()
Ownership_Renounce_REQUEST_by_Owner()
Ownership_Change_CoOwner_REQUEST_by_Owner()
Processing__Auto_Process()
Processing__Process_Now()
Processing__Swap_Trigger_Count()
Processing__Rescue_Tokens()
Rewards_Exclude_Wallet()
Rewards_Include_Wallet()
Wallet_Settings__Exclude_From_Fees()
Wallet_Settings__Exempt_From_Limits()
Wallet_Settings__Pre_Launch_Access()

```

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## RECOMMENDATION

Deployers, contract owners, administrators, access controlled, and all other privileged roles' private-keys/access-keys/admin-keys should be secured carefully. These entities can have a single point of failure that compromises the security of the project. Manage centralized and privileged roles carefully, review PAGE 09 for more information.

## CEN-01 ACKNOWLEDGEMENT

Multi-sig confirmation is used in some of the contract ownership functions. Co-operation between owner and co-owner is necessary to fully utilize multi-sig logic.

## GIF-02 ACKNOWLEDGEMENT

Gifty Coin team acknowledged that "Apart from owner wallet no other wallet will be given pre-launch access, owner wallet access is required to add liquidity."





Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

All of the initially minted assets are sent to the project owner when deploying the contract. This can be an issue as the project owner can distribute tokens without consulting the community.

```
uint256 private constant _tTotal    = 1_000_000_000 * 10 ** _decimals;
emit Transfer(address(0), _owner, _tTotal);
```

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## RECOMMENDATION

Project must communicate with stakeholders and obtain the community consensus while distributing assets.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that “The total supply distribution is transparently published to the community via the official website after careful consultation.”



Identifier	Definition	Severity
CEN-04	Privileged role receiving LP tokens	Minor <span style="color: green;">●</span>

Smart contract function addLiquidity() sends liquidity to Wallet\_Liquidity.

```
function addLiquidity(uint256 tokenAmount, uint256 BNBAmount) private {
    _approve(address(this), address(uniswapV2Router), tokenAmount);
    uniswapV2Router.addLiquidityETH{value: BNBAmount}(
        address(this),
        tokenAmount,
        0,
        0,
        Wallet_Liquidity,
        block.timestamp
    );
}
```


## RECOMMENDATION

Send LP tokens to dead address or unreachable address.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that “The initial liquidity will be locked, and we will continue to lock the liquidity as we receive it from the contract on a regular basis. We have chosen not to burn the liquidity as it would make it challenging in the event, we need to redeploy the contract with additional improvements or new functionalities as we progress.”



Identifier	Definition	Severity
GIF-01	Owner and Co-owner permissions in changing ownerships	Minor 

Code contains complex logic around changing ownership, it' must work as expected.

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## RECOMMENDATION

Code seems to rely on the cooperation between the owner and co-owner. In a scenario where the co-owner refuses to confirm requests or has lost access to their address, contract may become unusable.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that “We have taken steps to mitigate the risk by dividing the owner powers into two wallets for transferring and renouncing ownership. This measure is intended to safeguard the contract in the event that the owner wallet is compromised.”



Identifier	Definition	Severity
LOG-02	Potential front-running	Minor 

Potential front-running also classified as – sandwich attack happens when an attacker observes a transaction swapping tokens or adding liquidity without setting restrictions on slippage or minimum output amount. The attacker can manipulate the exchange rate by front-running a transaction to purchase assets and make profits by back-running a transaction to sell assets. Below mentioned functions are called without setting restrictions on slippage or minimum output:

```
addLiquidity
swapExactTokensForETHSupportingFeeOnTransferTokens
addLiquidityETH
```

## RECOMMENDATION

These functions should be provided reasonable minimum output amounts, instead of zero.

## RESOLUTION

Gifty Coin team confirmed that “If we set a minimum amount for the return, there is a risk that the function could revert if the minimum is not met due to a price shift. This would cause the sell transaction that triggered fee processing to fail, while buys (which don't trigger fee processing) would be unaffected. Consequently, the contract would run the risk of becoming a honeypot.

We believe the likelihood of someone front-running this scenario is extremely rare. However, if it were to occur, any front-running bot would need to cover the fees associated with the buy and sell transactions. It is highly unlikely that the bot could cover the gas fees, buy fee, sell fee, and execute a sandwich attack while still profiting. The possibility, although extremely unlikely based on the code, cannot be completely ruled out. Therefore, we have decided to keep the current configuration as it is.”



Identifier	Definition	Severity
COD-02	Timestamp manipulation via <code>block.timestamp</code>	Minor 

Be aware that the timestamp of the block can be manipulated by a miner. When the contract uses the timestamp to seed a random number, the miner can actually post a timestamp within 15 seconds of the block being validated, effectively allowing the miner to precompute an option more favorable to their chances.

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## RECOMMENDATION

To maintain block integrity, follow 15 seconds rule, and scale time dependent events accordingly.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged this finding and kept it as-is.



Identifier	Definition	Severity
COD-03	Rounding errors	Minor 

Solidity truncates decimal numbers, so dividing might not give the exact number you're expecting, which could lead to tiny discrepancies in balance calculations:

```
_transfer  
_tokenTransfer
```

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## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that "This is a problem with the solidity language itself. But we shift the decimal point to after the decimals on all transactions to compensate for it. After that there will be rounding errors, but even if token is worth thousands of dollars, those errors would amount to a tiny fraction of a cent. It's negligible. So, in code if you have 5 decimals, when we calculate values on 1 token, we are actually working with the number 100000 not 1.00000. It's just one of the limitations of the coding language."



Identifier	Definition	Severity
COD-06	Unknown externally owned account	Minor 

An externally owned account (EOA) has no code, and one can send messages from an externally owned account by creating and signing a transaction.

```

address private _owner                = 0x4D5557380D09427F0543bC3D54Fb6BC1eef6D2A0;
address public Wallet_Co_Owner        = 0x11F068E9D60538817cedbD7A45aED032f3873e1B;
address public Wallet_Liquidity        = 0x4D5557380D09427F0543bC3D54Fb6BC1eef6D2A0;
address public Wallet_Tokens           = 0x4D5557380D09427F0543bC3D54Fb6BC1eef6D2A0;
address payable public Wallet_Marketing =
payable(0x4D5557380D09427F0543bC3D54Fb6BC1eef6D2A0);

```

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## RECOMMENDATION

Private keys of externally owned accounts must be secured carefully.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that “Our team is securing the private keys of all wallets with utmost importance.”



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Unknown 🟤

Smart contract is interacting with third party protocols e.g., Market Makers, Open Zeppelin tools. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

## RECOMMENDATION

Inspect third party dependencies regularly, and mitigate severe impacts whenever necessary.

## ACKNOWLEDGEMENT

Gifty Coin team acknowledged that "Our team will conduct regular checks on third-party dependencies to proactively mitigate any risks associated with them."





Identifier	Definition	Severity
COD-11	Inadequate access control	Unknown 🟤

Below mentioned functions have access control vulnerabilities:

Ownership\_Change\_CoOwner\_CONFIRM\_by\_CoOwner( )

Ownership\_Renounce\_CONFIRM\_by\_CoOwner( )

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## RECOMMENDATION

External and public calls must be authenticated adequately to avoid possible vulnerabilities.

## RESOLUTION

Gifty Coin team confirmed that "The only wallet that can access these functions is the Co-owner wallet, which is hard-coded in the contract. This mitigates any vulnerabilities from external and public calls made from any other wallet, ensuring that only the Co-owner wallet has the privilege to perform these functions."



## DISCLAIMERS

InterFi Network provides the easy-to-understand audit of solidity source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. This audit report could include false positives, false negatives, and other unpredictable results.

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## ABOUT INTERFI NETWORK

InterFi Network provides intelligent blockchain solutions. We provide solidity development, testing, and auditing services. We have developed 150+ solidity codes, audited 1000+ smart contracts, and analyzed 500,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, etc.

InterFi Network is built by engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 4 core members, and 6+ casual contributors.

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Telegram (Onboarding): <https://t.me/interfisupport>



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SMART CONTRACT AUDITS | SOLIDITY DEVELOPMENT AND TESTING  
RELENTLESSLY SECURING PUBLIC AND PRIVATE BLOCKCHAINS