

SMART CONTRACT SECURITY AUDIT

ARBITRUM TOKEN







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DISCLAIMER

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws of the project's smart contract. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully. DISCLAIMER: You agree to the terms of this disclaimer by reading this report or any portion thereof. Please stop reading this report and remove and delete any copies of this report that you download and/or print if you do not agree to these conditions. Scan and verify report's presence in the GitHub repository by a gr-code on the title page. This report is for non-reliability information only and does not represent investment advice. No one shall be entitled to depend on the report or its contents, and Inspector Lovely and its affiliates shall not be held responsible to you or anyone else, nor shall Inspector Lovely provide any guarantee or representation to any person with regard to the accuracy or integrity of the report. Without any terms, warranties or other conditions other than as set forth in that exclusion and Inspector Lovely excludes hereby all representations, warrants, conditions and other terms (including, without limitation, guarantees implied by the law of satisfactory quality, fitness for purposes and the use of reasonable care and skills). The report is provided as "as is" and does not contain any terms and conditions. Except as legally banned, Inspector Lovely disclaims all responsibility and responsibilities and no claim against Inspector Lovely is made to any amount or type of loss or damages (without limitation, direct, indirect, special, punitive, consequential or pure economic loses or losses) that may be caused by you or any other person, or any damages or damages, including without limitations (whether innocent or negligent). Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

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AUDIT SCOPE

Name	Code Review and Security Analysis Report for Arbitrum Token Coin Smart Contract
Platform	Ethereum
Language	Solidity
File	L1ArbitrumToken.sol
Ethereum Code	0xad0c361ef902a7d9851ca7dcc85535da2d3c6fc7
Audit Date	November 8th, 2023



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PROPOSED SMART CONTRACT FEATURES

Claimed Feature Detail	Our Observation
Tokenomics: • Name: Arbitrum • Symbol: ARB • Decimals: 18	Validated
 Ownership control: Allow the Arb One bridge to mint tokens by only I1 arb one gateway. Allow the Arb One bridge to burn tokens by only I1 arb one gateway. 	Validated
galendy.	





AUDIT SUMMARY

According to the standard audit assessment, Customer`s solidity-based smart contracts are **"Secured"**. Also, these contracts contain owner control, which does not make them fully decentralized.

Insecure	Poor Secured	Secure Rou are here	Well-Secured	

We used various tools like Slither, Solhint, and Remix IDE. At the same time, this finding is based on a critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit Overview section. General overview is presented in AS-IS section and all identified issues can be found in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 0 low, and 0 very low level issues.

Investors Advice: Technical audit of the smart contract does not guarantee the ethical nature of the project. Any owner-controlled functions should be executed by the owner with responsibility. All investors/users are advised to do their due diligence before investing in the project.





KEY TECHNICAL METRICS

Solidity version is not specifiedPassedSolidity version is too oldPassedInteger overflow/underflowPassedFunction input parameters lack checkPassedFunction input parameters lack checkPassedFunction cacess control lacks managementPassedCritical operation lacks event logPassedHuman/contract checks bypassPassedRandom number generation/use vulnerabilityN/AFollback function misusePassedRace conditionPassedLogical vulnerabilityPassedOther programming issuesPassedSpecificationVar. storage location not explicitly declaredPassedVar. storage location not explicitly declaredPassedVar. storage location not explicitly declaredPassedSpecificationVar. storage issuesPassedGas OptimizationYar. storage issuePassedHigh consumption 'for/while' loopPassedHigh consumption 'for/while' loopPassedSpecificationPassedYigh tasser, minum limit for mintage is not setPassedPassed'Short Address' AttackPassedPassed'Short Address' AttackPassed	MAIN CATEGORY	SUBCATEGORY	RESULT
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Business Risk "Short Address" Attack Passed		Assert() misuse	Passed
Short Address Attack Trassed		The maximum limit for mintage is not set	Passed
"Double Spend" Attack Passed	Business Risk	"Short Address" Attack	Passed
		"Double Spend" Attack	Passed

Overall Audit Result: PASSED

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BUSINESS RISK ANALYSIS

CATEGORY RESULT **Buy Tax** 0% ۲ Sell Tax 0% . Cannot Buy Not Detected ۲ ۲ Cannot Sell Not Detected Max Tax 0% ۲ Modify Tax Not Detected ۲ Fee Check No . Is Honeypot Not Detected ۲ Trading Cooldown ۲ Not Detected . Can Pause Trade? No Pause Transfer? No ۲ Max Tax? . Is it Anti-whale? . Is Anti-bot? . Not Detected Is it a Blacklist? Not Detected ۲ **Blacklist Check** No • Can Mint? . ۲ Is it Proxy? . Can Take Ownership? No Hidden Owner? Not Detected ۲ Self Destruction? Not Detected ۲ . Auditor Confidence High

Overall Audit Result: PASSED





CODE QUALITY

This audit scope has 1 smart contract. Smart contract contains Libraries, Smart contracts, inherits and Interfaces. This is a compact and well written smart contract.

The libraries in Arbitrum Token are part of its logical algorithm. A library is a different type of smart contract that contains reusable code. Once deployed on the blockchain (only once), it is assigned a specific address and its properties / methods can be reused many times by other contracts in the Arbitrum Token.

The EtherAuthority team has not provided scenario and unit test scripts, which would have helped to determine the integrity of the code in an automated way.

Code parts are well commented on in the smart contracts. Ethereum's NatSpec commenting style is recommended.

DOCUMENTATION

We were given an Arbitrum Token smart contract code in the form of an Etherscan web link.

As mentioned above, code parts are well commented on. and the logic is straightforward. So it is easy to quickly understand the programming flow as well as complex code logic. Comments are very helpful in understanding the overall architecture of the protocol.

Another source of information was its official website: <u>arbitrum.io</u> which provided rich information about the project architecture and tokenomics.

USE OF DEPENDENCIES

As per our observation, the libraries are used in this smart contract infrastructure that are based on well known industry standard open source projects.

Apart from libraries, its functions are not used in external smart contract calls.





PROJECT WEBSITE PERFORMANCE AUDIT

IMPECT	AUDIT	
High	Enable Keep-Alive (FCP) (LCP)	~
URL WITHOUT KEEP-	ALIVE ENABLED . HTTP://ARBITRUM.IO/	
Low	Allow back/forward cache restoration	
Low	Avoid an excessive DOM size (TBT)	~
Low	Avoid enormous network payloads (LCP)	~
Low	Avoid multiple page redirects (FCP) (LCP)	

Level of Criticality

Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to token loss etc
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial
Med	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

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AUDIT FINDINGS TABLE

	Total	Resolved	UnResolved	Acknowledged
High Severity Issues Found	o	0	0	0
Moderate Severity Issues Found	o	O	0	0
Medium Severity Issues	0	0	o	0
Low Severity Issues	0	0	o	0
Informational Observations	o	0	0	0

The Arbitrum Token - Audit report identifies O issues with varying severity levels, discovered through manual review and static analysis techniques, alongside rigorous code reviews, highlighting the need for further investigation and vulnerability identification.

The smart contract is considered to **pass the audit**, as of the audit date, if no high-severity or moderate-severity issues are found.

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AUDIT FINDINGS

Critical Severity	No Critical severity vulnerabilities were found.
High Severity	No High severity vulnerabilities were found.
Medium	No Medium severity vulnerabilities were found.
Low	No Low severity vulnerabilities were found.
Very Low / Informational / Best practices:	No Very Low severity vulnerabilities were found.

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CENTRALIZATION

This smart contract has some functions that can be executed by the Admin (Owner) only. If the admin wallet's private key is compromised, then it would create trouble. Following are Admin functions:

L1ArbitrumToken.sol

- bridgeMint: Allow the Arb One bridge to mint tokens by only l1 arb one gateway.
- bridgeBurn: Allow the Arb One bridge to burn tokens by only l1 arb one gateway.

To make the smart contract 100% decentralized, we suggest renouncing ownership of the smart contract once its function is completed.

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CONCLUSION

We were given a contract code in the form of <u>Etherscan</u> web links. And we have used all possible tests based on given objects as files. We had not observed any issues in the smart contracts. **So, it's good to go for the production.**

Since possible test cases can be unlimited for such smart contracts protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover the maximum possible test cases to scan everything.

Smart contracts within the scope were manually reviewed and analyzed with static analysis tools. Smart Contract's high-level description of functionality was presented in the As-is overview section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed code.

Security state of the reviewed smart contract, based on standard audit procedure scope, is **"Secured"**.







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SECURITY ASSESSMENT REPORT

Slither is a Solidity static analysis framework that uses vulnerability detectors, displays contract details and provides an API for writing custom analyses. It helps developers identify vulnerabilities, improve code comprehension, and prototype custom analyses quickly. The analysis includes a report with warnings and errors, allowing developers to quickly prototype and fix issues.

We did the analysis of the project together. Below are the results.

Slither Log >> L1ArbitrumToken.sol

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Function IERC20PermitUpgradeable._Context_init() (L1ArbitrumToken.sol#50) is not in mixedCase
Function ContextUpgradeable._Context_init() (L1ArbitrumToken.sol#762-763) is not in mixedCase
Function ContextUpgradeable._gap (L1ArbitrumToken.sol#762-763) is not in mixedCase
Function EIP712Upgradeable._EIP712_init(string,string) (L1ArbitrumToken.sol#803-805) is not in mixedCase
Function EIP712Upgradeable._EIP712_init(string,string) (L1ArbitrumToken.sol#803-805) is not in mixedCase
Function EIP712Upgradeable._EIP712Upgradeable._IASHED_NAME (L1ArbitrumToken.sol#804-806) is not in mixedCase
Function EIP712Upgradeable._HASHED_NAME (L1ArbitrumToken.sol#804-806) is not in mixedCase
Function EIP712Upgradeable._HASHED_NAME (L1ArbitrumToken.sol#804-806) is not in mixedCase
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Yariable EIP712Upgradeable._Gap (L1ArbitrumToken.sol#786) is not in mixedCase
Yariable EIP712Upgradeable._EEC20_init(string,string) (L1ArbitrumToken.sol#895-997) is not in mixedCase
Function ERC200pgradeable._EEC20_init(string,string) (L1ArbitrumToken.sol#895-997) is not in mixedCase
Yariable ERC200pgradeable._EEC20_init(string,string) (L1ArbitrumToken.sol#1280-1282) is not in mixedCase
Function ERC200pgradeable._EEC20@Permit_init_inchained(string) (L1ArbitrumToken.sol#1280-1282) is not in mixedCase
Yariable ERC200permitUpgradeable._EEC20@Permit_init_inchained(string) (L1ArbitrumToken.sol#1280-1282) is not in mixedCase
Yariable ERC200permitUpgradeable._Gap (L1ArbitrumToken.sol#1321-31) is not in mixedCase
Function ERC200permitUpgradeable._Gap (L1ArbitrumToken.sol#1321) is not in mixedCase
Function ERC200permitUpgradeable._Gap (L1ArbitrumToken.sol#1321) is not in mixedCase
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Function ERC200permitUpgradeable._Gap (L1ArbitrumTo



SOLIDITY STATIC ANALYSIS

Static code analysis is used to identify many common coding problems before a program is released. It involves examining the code manually or using tools to automate the process. Static code analysis tools can automatically scan the code without executing it.

L1ArbitrumToken.sol

Check-effects-interaction:

Potential violation of Checks-Effects-Interaction pattern in AddressUpgradeable.functionCallWithValue(address,bytes,uint256,string): Could potentially lead to re-entrancy vulnerability. Note: Modifiers are currently not considered by this static analysis.

Pos: 172:4:

Inline assembly:

The Contract uses inline assembly, this is only advised in rare cases. Additionally static analysis modules do not parse inline Assembly, this can lead to wrong analysis results. more

Pos: 1388:11:

Block timestamp:

Use of "block.timestamp": "block.timestamp" can be influenced by miners to a certain degree. That means that a miner can "choose" the block.timestamp, to a certain degree, to change the outcome of a transaction in the mined block.

more

Pos: 1298:19:

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Low level calls:

Use of "call": should be avoided whenever possible. It can lead to unexpected behavior if return value is not handled properly. Please use Direct Calls via specifying the called contract's interface.

more

Pos: 181:50:

Gas costs:

Gas requirement of function L1ArbitrumToken.transferFrom is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage) Pos: 1547:7:

Constant/View/Pure functions:

L1ArbitrumToken.transferFrom(address,address,uint256) : Potentially should be constant/view/pure but is not. Note: Modifiers are currently not considered by this static analysis. more

Pos: 1547:7:

Similar variable names:

L1ArbitrumToken.bridgeMint(address,uint256) : Variables have very similar names "account" and "amount". Note: Modifiers are currently not considered by this static analysis. Pos: 1498:26:

No return:

IGatewayRouter.setGateway(address,uint256,uint256,uint256,address): Defines a return type but never explicitly returns a value. Pos: 1433:7:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

nore

Pos: 1488:11:

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COMPLIANCE ANALYSIS

Linters are the utility tools that analyze the given source code and report programming errors, bugs, and stylistic errors. For the Solidity language, there are some linter tools available that a developer can use to improve the quality of their Solidity contracts.

L1ArbitrumToken.sol

Error message for require is too long Pos: 9:107 Error message for require is too long Pos: 9:177 Error message for require is too long Pos: 9:205 Avoid using inline assembly. It is acceptable only in rare cases Pos: 17:229 Error message for revert is too long Pos: 13:488 Error message for revert is too long Pos: 13:490 Avoid using inline assembly. It is acceptable only in rare cases Pos: 13:522 Error message for require is too long Pos: 9:700 Error message for require is too long Pos: 9:728 Error message for require is too long Pos: 9:741 Error message for require is too long Pos: 9:752 Function name must be in mixedCase Pos: 5:761 Code contains empty blocks Pos: 57:761 Function name must be in mixedCase Pos: 5:764 Code contains empty blocks Pos: 67:764 Function name must be in mixedCase Pos: 5:802 Function name must be in mixedCase Pos: 5:806 Function name must be in mixedCase Pos: 5:853 Function name must be in mixedCase Pos: 5:863 Function name must be in mixedCase Pos: 5:894 Function name must be in mixedCase Pos: 5:898 Error message for require is too long

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Pos: 9:1048 Error message for require is too long Pos: 9:1075 Error message for require is too long Pos: 9:1076 Error message for require is too long Pos: 9:1081 Error message for require is too long Pos: 9:1125 Error message for require is too long Pos: 9:1130 Error message for require is too long Pos: 9:1159 Error message for require is too long Pos: 9:1160 Code contains empty blocks Pos: 24:1206 Code contains empty blocks Pos: 24:1226 Function name must be in mixedCase Pos: 5:1279 Function name must be in mixedCase Pos: 5:1283 Code contains empty blocks Pos: 84:1283 Avoid making time-based decisions in your business logic Pos: 17:1297 Avoid using inline assembly. It is acceptable only in rare cases Pos: 9:1387 Explicitly mark visibility in function (Set ignoreConstructors to true if using solidity >=0.7.0) Pos: 5:1460 Error message for require is too long Pos: 9:1468 Error message for require is too long Pos: 9:1469 Error message for require is too long Pos: 9:1470 Error message for require is too long Pos: 9:1482 Error message for require is too long Pos: 9:1487

SOFTWARE ANALYSIS RESULT

This software reported many false positive results and some are informational issues. So, those issues can be safely ignored.

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