

Blockchain Security | Smart Contract Audits | KYC Development | Marketing

MADE IN GERMANY

Alt Signals Audit Security Assessment 10. February, 2023

For







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Version	Date	Description
1.0	4. February 2023	 Layout project Automated- /Manual-Security Testing Summary

Network Ethereum

Website https://www.altsignals.io/

Telegram https://t.me/altsignals

Twitter https://twitter.com/AltSignalseng

YouTube https://www.youtube.com/channel/UCd39ssLSMBjXs4oC7ai541w

TikTok https://www.tiktok.com/@altsignals?lang=en

Instagram https://www.instagram.com/altsignals.io/?hl=en

Description

AltSignals has been running without stop since 2017, unlike many other services which often pop up and disappear after a few months, Usually leaving you high and dry after you've parted with your cash.

With so many scams in this business its important to deal with a company who is trusted and has a strong track record of results, which can be found in our results section.

Our Binance Futures and Forex signals are consistently profitable month on month, with accuracy in 80%+ range usually.

Project Engagement

During the Date of 4th of February 2023, **Alt Signals Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo

Contract Link v1.0

- https://github.com/blck-media-tech/alt-contracts/tree/main/contracts
- Commit: fdf3d7fea7574dcd16305191f7df88e54dc95ac4

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	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 aspossible.
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:
 - i) 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 analysing 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:

Dependency / Import Path	Count
@openzeppelin/contracts/access/Ownable.sol	2
@openzeppelin/contracts/security/Pausable.sol	1
@openzeppelin/contracts/security/ReentrancyGuard.sol	1
@openzeppelin/contracts/token/ERC20/ERC20.sol	1
@openzeppelin/contracts/token/ERC20/IERC20.sol	1
@openzeppelin/contracts/token/ERC20/extensions/ERC20Capped.sol	1
@openzeppelin/contracts/token/ERC20/utils/SafeERC20.sol	1

Tested Contract Files

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

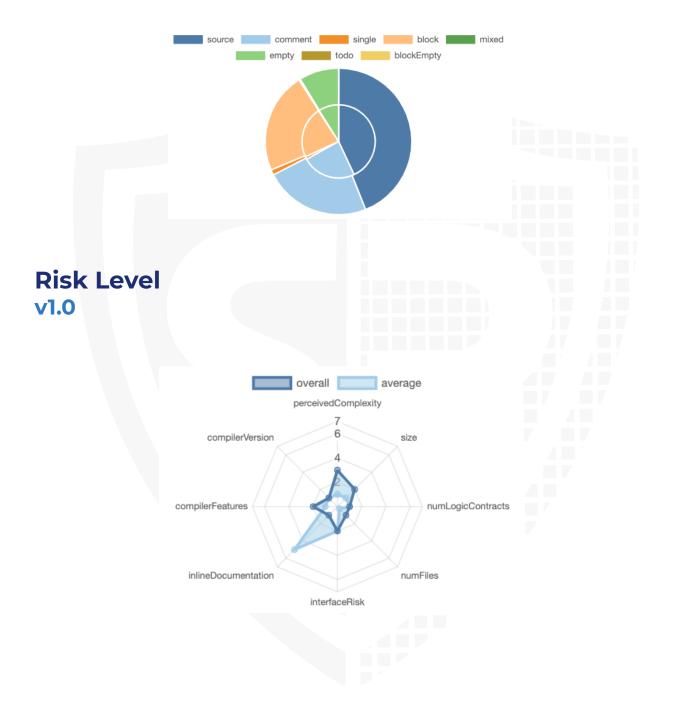
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

VI.0	
File Name	SHA-1 Hash
contracts/interfaces/IPresale.sol	b675b607bcacbe8bc9cc038c7de19 70ea5966ca6
contracts/interfaces/ IChainlinkPriceFeed.sol	eba8c00d573270d0c414854a02a1a b10d6180708
contracts/ASIPresale.sol	2edf069a7025568595bc9db2b8f3e1 b8736f91a0
contracts/ASIToken.sol	2126c59cea79f38b415670f5b6423a dba87dc35b





Source Lines v1.0



Capabilities

Components

Contracts	📚 Libraries	CInterfaces	Abstract
2	0	2	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.

19 1

External	Internal	Private	Pure	View
15	17	0	0	9

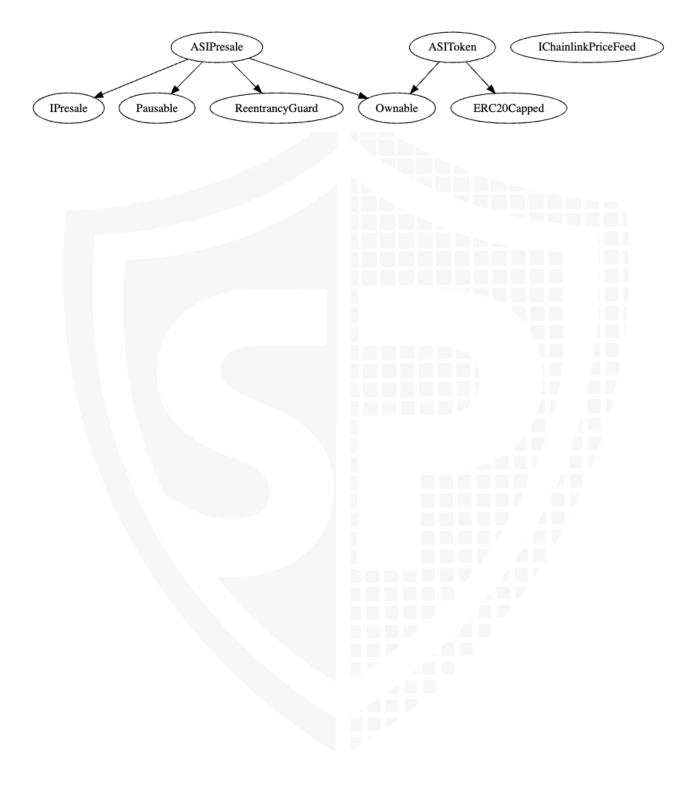
StateVariables

Total	Public
13	12

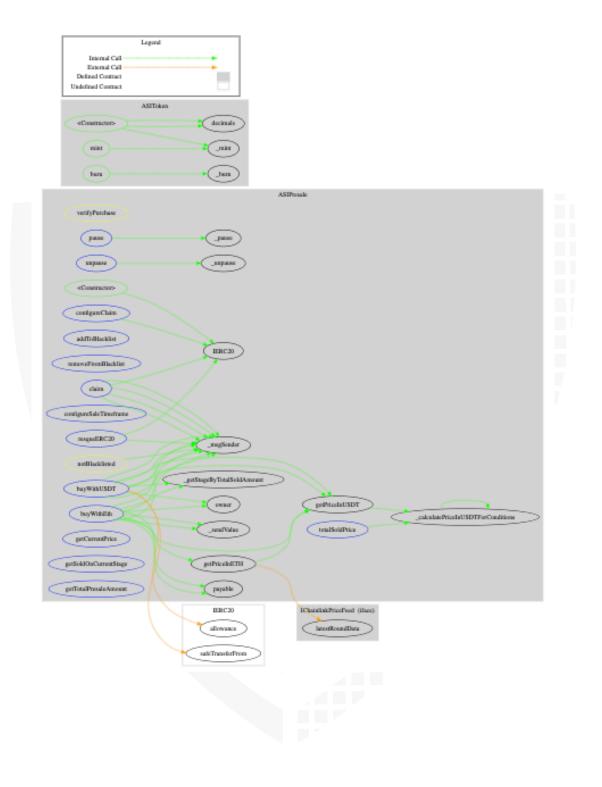
Capabilities

Solidity Versions of	bserved	🧪 Experim	ental Features	💰 Can Receive Funds	🜉 Uses Assembly	Has Destroyable Contracts
^0.8.17 ^0.8.0				yes		
📥 Transfers ETH	🗲 Low	Level Calls	1 DelegateCal	I Uses Hash Funct	ions 🧳 ECRecover	6 New/Create/Create2
Saturn Σ L	Jnchecked	I				
		2				

Inheritance Graph v1.0



CallGraph 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. Deployer cannot set fees
- 7. Deployer cannot blacklist/antisnipe addresses
- 8. Overall checkup (Smart Contract Security)

Is 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	\checkmark	\checkmark	\checkmark	
BalanceOf	Provides account balance of the owner's account	\checkmark	\checkmark	\checkmark	
Transfer	Executes transfers of a specified number of tokens to a specified address	\checkmark	\checkmark	\checkmark	
TransferFrom	Executes transfers of a specified number of tokens from a specified address	\checkmark	\checkmark	\checkmark	
Approve	Allow a spender to withdraw a set number of tokens from a specified account	\checkmark	\checkmark	\checkmark	
Allowance	Returns a set number of tokens from a spender to the owner	\checkmark	\checkmark	\checkmark	

Write functions of contract v1.0

- 🔶 pause
- 🐓 unpause
- 🔶 addToBlacklist
- removeFromBlacklist
- resqueERC20
- configureSaleTimeframe
- 🔶 configureClaim
- 🔶 buyWithEth 👸
- buyWithUSDT
- 🔶 claim



Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer can mint	\checkmark	\checkmark	×
Max / Total Supply	N/A		

Comments: **v1.0**

• Owner can mint new tokens until the maximum cap is reached, and that will be decided at the time of Deployment.

Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer can lock	\checkmark	\checkmark	X
Deployer cannot burn	\checkmark	\checkmark	\checkmark

Comments: **v1.0**

- Owner can lock user funds by
 - blacklisting addresses
 - Updating the claim start time after the tokens are sold to any arbitrary time, even setting it into the past is also possible which may lead to instant claims. No investor will be able to claim tokens because claim start time will be too long.



Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer can pause	\checkmark	\checkmark	X

Comments:

v1.0

• Owner can pause the presale contract directly and also by updating the sale start and end time even after the sale has been started.



Deployer cannot set fees

Name	Exist	Tested	Status
Deployer cannot set fees over 25%	-	-	-
Deployer cannot set fees to nearly 100% or to 100%	-	_	-



Deployer can blacklist/antisnipe addresses

Name	Exist	Tested	Status
Deployer can blacklist/antisnipe addresses	\checkmark	\checkmark	X

Comments:

v1.0

• Owner is able to blacklist addresses from the presale



Overall checkup (Smart Contract Security)



Legend

Attribute	Symbol
Verified / Checked	\checkmark
Partly Verified	•
Unverified / Not checked	×
Not available	-



Modifiers and public functions v1.0

🔶 pause 🔶 unpause addToBlacklist removeFromBlacklist resqueERC20 configureSaleTimeframe configureClaim 🔶 buyWithEth 👸 notBlacklisted
 w verifyPurchase buyWithUSDT notBlacklisted
 w verifyPurchase In nonReentrant 🔶 claim whenNotPaused



Ownership Privileges:

 Withdraw tokens from the presale contract including the sale token, which is not recommended because this way owner can have both the ETH and USDT, alongside the sale token

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.

Source Units in Scope v1.0

File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score
contracts/interfaces/IPresale.sol		1	30	30	25	1	1
contracts/interfaces/IChainlinkPriceFeed.sol		1	15	5	3	1	3
contracts/ASIPresale.sol	1		381	381	205	135	156
contracts/ASIToken.sol	1		24	24	18	2	18
Totals	2	2	450	440	251	139	178

Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalised lines of the source unit (e.g. normalises functions spanning multiple lines)
nSLOC	normalised source lines of code (only source-code lines; no comments, no 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 Critical issues

No critical issues

High issues

No high issues

Medium issues

lssue	File	Туре	Line	Description
#1	ASIPres ale.sol	Owner can Withdraw funds	190	The owner can withdraw all the funds from the presale contract because there is no protection against passing the sale token address in the 'resqueERC20' function.
				We recommend to put a check in place to prevent this from happening.

Low issues

Issue	File	Туре	Line	Description
#1	All	A floating pragma is set	-	The current pragma Solidity directive is ""^0.8.17".
#2	ASIPres ale.sol	Missing Zero Address Validation (missing- zero-check)	167, 178	Check that the address is not zero
#3	ASIPres ale.sol	Missing Events Arithmetic	All	Emit an event for critical parameter changes

Informational issues

Issue	File	Туре	Line	Description
-------	------	------	------	-------------

#1	ASIPres ale.sol	Misspelling	190	Change following words: - 'resque' Make sure to change it everywhere else as well.
#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 <u>https://docs.soliditylang.org/en/</u><u>latest/natspec-format.html</u>) 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.

10. February 2023:

- There is still an owner (Owner still has not renounced ownership)
- Read whole report and modifiers section for more information



SWC Attacks

ID	Title	Relationships	Status
<u>SW</u> <u>C-1</u> <u>36</u>	Unencrypted Private Data On-Chain	<u>CWE-767: Access to Critical</u> <u>Private Variable via Public</u> <u>Method</u>	PASSED
<u>SW</u> <u>C-1</u> <u>35</u>	Code With No Effects	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SW</u> <u>C-1</u> <u>34</u>	Message call with hardcoded gas amount	<u>CWE-655: Improper</u> <u>Initialization</u>	PASSED
<u>SW</u> <u>C-1</u> <u>33</u>	Hash Collisions With Multiple Variable Length Arguments	<u>CWE-294: Authentication</u> <u>Bypass by Capture-replay</u>	PASSED
<u>SW</u> <u>C-1</u> <u>32</u>	Unexpected Ether balance	<u>CWE-667: Improper Locking</u>	PASSED
<u>SW</u> <u>C-1</u> <u>31</u>	Presence of unused variables	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SW</u> <u>C-1</u> <u>30</u>	Right-To-Left- Override control character (U+202E)	<u>CWE-451: User Interface (UI)</u> <u>Misrepresentation of Critical</u> <u>Information</u>	PASSED
<u>SW</u> <u>C-1</u> <u>29</u>	Typographical Error	<u>CWE-480: Use of Incorrect</u> <u>Operator</u>	PASSED
<u>SW</u> <u>C-1</u> <u>28</u>	DoS With Block Gas Limit	<u>CWE-400: Uncontrolled</u> <u>Resource Consumption</u>	PASSED

<u>SW</u> <u>C-1</u> <u>27</u>	Arbitrary Jump with Function Type Variable	<u>CWE-695: Use of Low-Level</u> <u>Functionality</u>	PASSED
<u>SW</u> <u>C-1</u> <u>25</u>	Incorrect Inheritance Order	<u>CWE-696: Incorrect Behavior</u> <u>Order</u>	PASSED
<u>SW</u> <u>C-1</u> <u>24</u>	Write to Arbitrary Storage Location	<u>CWE-123: Write-what-where</u> <u>Condition</u>	PASSED
<u>SW</u> <u>C-1</u> <u>23</u>	Requirement Violation	<u>CWE-573: Improper Following</u> of Specification by Caller	PASSED
<u>SW</u> <u>C-1</u> <u>22</u>	Lack of Proper Signature Verification	<u>CWE-345: Insufficient</u> <u>Verification of Data</u> <u>Authenticity</u>	PASSED
<u>SW</u> <u>C-1</u> <u>21</u>	Missing Protection against Signature Replay Attacks	<u>CWE-347: Improper</u> <u>Verification of Cryptographic</u> <u>Signature</u>	PASSED
<u>SW</u> <u>C-1</u> <u>20</u>	Weak Sources of Randomness from Chain Attributes	<u>CWE-330: Use of Insufficiently</u> <u>Random Values</u>	PASSED
<u>SW</u> <u>C-11</u> <u>9</u>	Shadowing State Variables	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	<u>CWE-665: Improper</u> Initialization	PASSED
<u>SW</u> <u>C-11</u> 7	Signature Malleability	<u>CWE-347: Improper</u> <u>Verification of Cryptographic</u> <u>Signature</u>	PASSED

<u>SW</u> <u>C-11</u> <u>6</u>	Timestamp Dependence	<u>CWE-829: Inclusion of</u> <u>Functionality from Untrusted</u> <u>Control Sphere</u>	PASSED
<u>SW</u> <u>C-11</u> <u>5</u>	Authorization through tx.origin	<u>CWE-477: Use of Obsolete</u> <u>Function</u>	PASSED
<u>SW</u> <u>C-11</u> 4	Transaction Order Dependence	<u>CWE-362: Concurrent</u> <u>Execution using Shared</u> <u>Resource with Improper</u> <u>Synchronization ('Race</u> <u>Condition')</u>	PASSED
<u>SW</u> <u>C-11</u> <u>3</u>	DoS with Failed Call	<u>CWE-703: Improper Check or</u> <u>Handling of Exceptional</u> <u>Conditions</u>	PASSED
<u>SW</u> <u>C-11</u> <u>2</u>	Delegatecall to Untrusted Callee	<u>CWE-829: Inclusion of</u> <u>Functionality from Untrusted</u> <u>Control Sphere</u>	PASSED
<u>SW</u> <u>C-11</u> 1	Use of Deprecated Solidity Functions	<u>CWE-477: Use of Obsolete</u> <u>Function</u>	PASSED
<u>SW</u> <u>C-11</u> <u>0</u>	Assert Violation	<u>CWE-670: Always-Incorrect</u> <u>Control Flow Implementation</u>	PASSED
<u>SW</u> <u>C-1</u> <u>09</u>	Uninitialized Storage Pointer	<u>CWE-824: Access of</u> <u>Uninitialized Pointer</u>	PASSED
<u>SW</u> <u>C-1</u> <u>08</u>	State Variable Default Visibility	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	PASSED
<u>SW</u> <u>C-1</u> <u>07</u>	Reentrancy	<u>CWE-841: Improper</u> <u>Enforcement of Behavioral</u> <u>Workflow</u>	PASSED
<u>SW</u> <u>C-1</u> <u>06</u>	Unprotected SELFDESTRUC T Instruction	<u>CWE-284: Improper Access</u> <u>Control</u>	PASSED

<u>SW</u> <u>C-1</u> <u>05</u>	Unprotected Ether Withdrawal	<u>CWE-284: Improper Access</u> <u>Control</u>	PASSED
<u>SW</u> <u>C-1</u> <u>04</u>	Unchecked Call Return Value	<u>CWE-252: Unchecked Return</u> <u>Value</u>	PASSED
<u>SW</u> <u>C-1</u> <u>03</u>	Floating Pragma	<u>CWE-664: Improper Control of</u> <u>a Resource Through its</u> <u>Lifetime</u>	NOT PASSED
<u>SW</u> <u>C-1</u> <u>02</u>	Outdated Compiler Version	<u>CWE-937: Using Components</u> with Known Vulnerabilities	PASSED
<u>SW</u> <u>C-1</u> <u>01</u>	Integer Overflow and Underflow	<u>CWE-682: Incorrect</u> <u>Calculation</u>	PASSED
<u>SW</u> C-1 00	Function Default Visibility	<u>CWE-710: Improper Adherence</u> <u>to Coding Standards</u>	PASSED







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