

Security Assessment

AstridDao

Apr 22nd, 2022



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About



Summary

This report has been prepared for AstridDao to discover issues and vulnerabilities in the source code of the AstridDao project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- Provide more comments per each function for readability, especially contracts that are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



Overview

Project Summary

Project Name	AstridDao
Platform	Ethereum
Language	Solidity
Codebase	https://github.com/AstridDao/contracts
Commit	9e0d1955eb2ad80924956543c90e811ae5fa3cfd

Audit Summary

Delivery Date	Apr 22, 2022 UTC
Audit Methodology	Static Analysis, Manual Review

Vulnerability Summary

Vulnerability Level	Total	Pending	Declined	Acknowledged	Mitigated	Partially Resolved	Resolved
Critical	0	0	0	0	0	0	0
Major	2	0	0	1	0	0	1
Medium	0	0	0	0	0	0	0
Minor	3	0	0	2	0	0	1
Informational	5	0	0	2	0	0	3
Discussion	0	0	0	0	0	0	0



Audit Scope

ID	File	SHA256 Checksum
BAI	BAIToken.sol	31246191981aa6b67cf6ce066d386dcfdfa4cbd30e26dc016bc227b40b143 9ab
ATD	ATID/ATIDStaking.sol	62a429af11734f033ecb0bb21d254e05bc460e70bca3549d763ac38b33f65 e4c
GTA	ATID/GovToken.sol	a506a63e011144d9a65e70ec70b21b83e6c65127d9a9362e04ccab904043 ba88
ATT	ATID/ATIDToken.sol	8671693546e56e47bd040bc70b013b4aeb9e01e7afa83f0e6cbbde00ecc0e 7e8
CIA	ATID/CommunityIssuance.sol	0160ab3711009b3988a2d7464f7717e9722acb32102539a038c4d57d2780 37d5
LCA	ATID/LockupContract.sol	9953493081b55ebe3c7863157c36370d67a5b19a0d9172a4b9099cc9c47fe74a
ATI	ATID	
LCF	ATID/LockupContractFactory.	27d2b95333acd9167f0e5a5b3ebd6fb4f451e65cb6b8d5d6489dac4611d57 e42



Findings



ID	Title	Category	Severity	Status
ATID-01	Centralization Related Risks	Centralization / Privilege	Major	(i) Acknowledged
ADC-01	Missing Emit Events	Coding Style	Informational	⊗ Resolved
ADC-02	Unlocked Compiler Version	Language Specific	Informational	⊗ Resolved
ADC-03	Missing Error Messages	Coding Style	Informational	(i) Acknowledged
ATD-01	Third Party Dependencies	Logical Issue	Minor	(i) Acknowledged
ATD-02	Discussion On The ATIDStaking Contract	Logical Issue	Minor	(i) Acknowledged
ATD-03	Redundant Code Components	Volatile Code	Informational	(i) Acknowledged
ATD-04	Discussion On unstakeLocked()	Logical Issue	Informational	
ATI-01	<pre>Unchecked ERC-20 transfer() / transferFrom() Call</pre>	Volatile Code	Minor	⊗ Resolved
CIA-01	Tautology Or Contradiction	Logical Issue	Major	⊗ Resolved



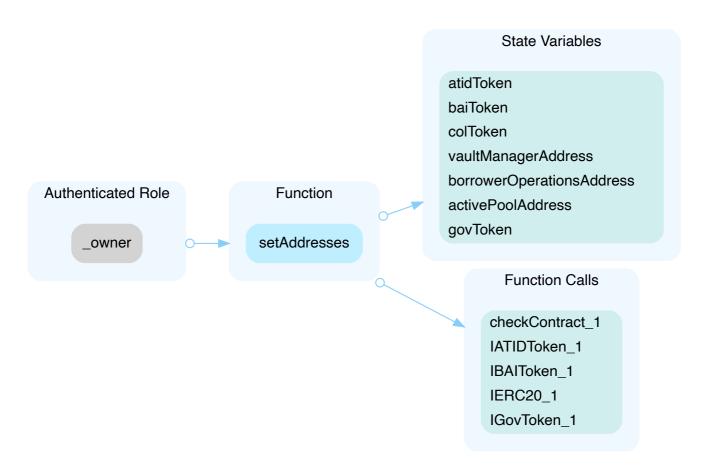
ATID-01 | Centralization Related Risks

Category	Severity	Location	Status
Centralization / Privilege	Major	Global	① Acknowledged

Description

In the contract ATIDStaking the role _owner has authority over the functions shown in the diagram below.

Any compromise to the _owner account may allow the hacker to take advantage of this authority.



In the contract ATIDStaking the role activePoolAddress has authority over the functions shown in the diagram below.

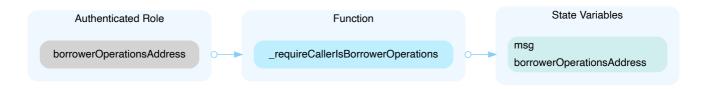
Any compromise to the activePoolAddress account may allow the hacker to take advantage of this authority.





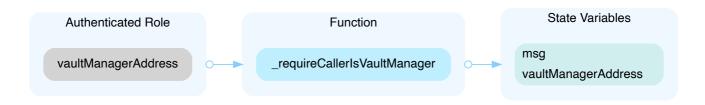
In the contract ATIDStaking the role borrowerOperationsAddress has authority over the functions shown in the diagram below.

Any compromise to the borrower0perationsAddress account may allow the hacker to take advantage of this authority.



In the contract ATIDStaking the role vaultManagerAddress has authority over the functions shown in the diagram below.

Any compromise to the vaultManagerAddress account may allow the hacker to take advantage of this authority.



In the contract ATIDToken the role _owner has authority over the functions shown in the diagram below.

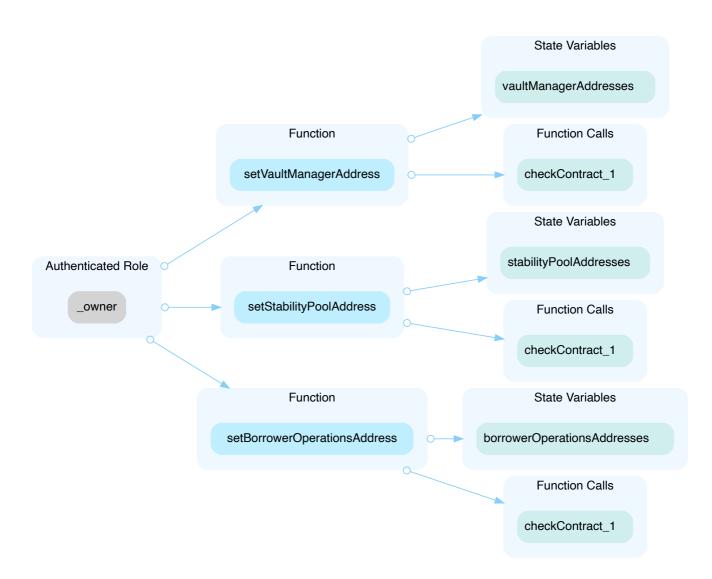
Any compromise to the _owner account may allow the hacker to take advantage of this authority.





In the contract BAIToken the role _owner has authority over the functions shown in the diagram below.

Any compromise to the _owner account may allow the hacker to take advantage of this authority.



In the contract BAIToken, the role borrowerOperationsAddresses has authority over the following functions:

mint()

In the contract [BAIToken], the role vaultManagerAddresses has authority over the following functions:

- burn()
- returnFromPool()

In the contract [BAIToken], the role stabilityPoolAddresses has authority over the following functions:

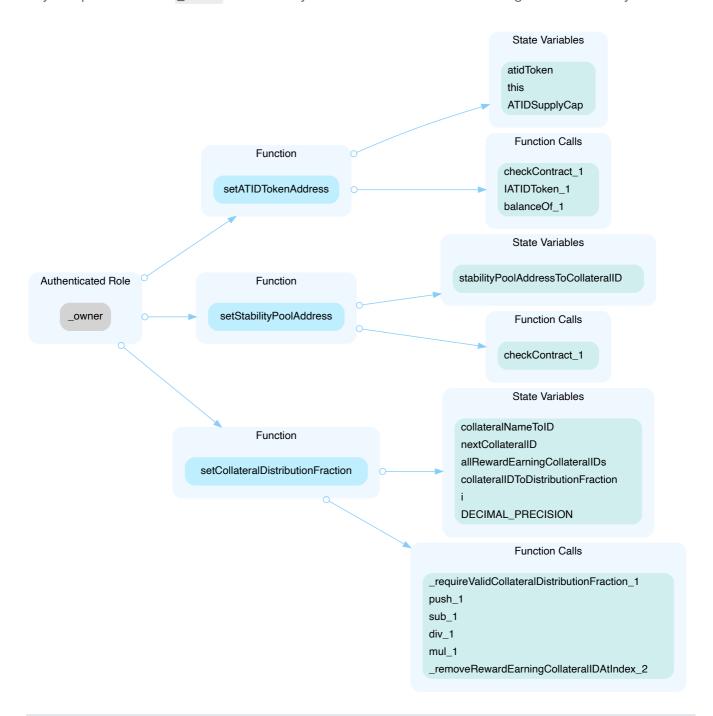
- burn()
- sendToPool()
- returnFromPool()

Any compromise to the borrowerOperationsAddresses, vaultManagerAddresses, and stabilityPoolAddresses accounts may allow the hacker to take advantage of this authority.



In the contract CommunityIssuance the role _owner has authority over the functions shown in the diagram below.

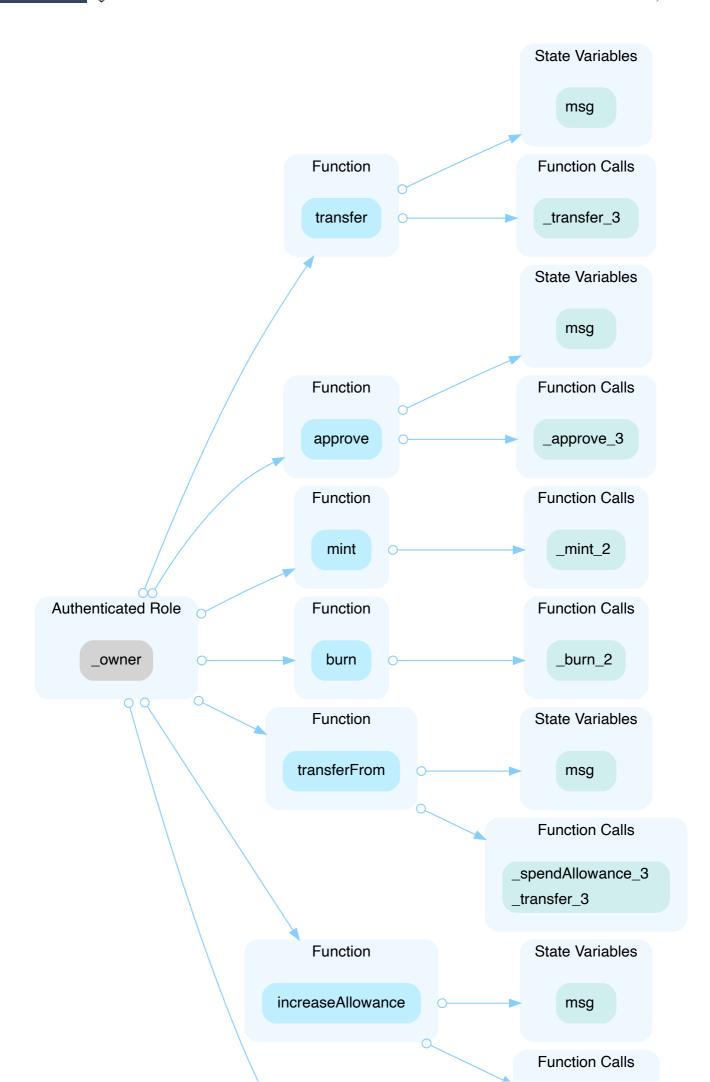
Any compromise to the _owner account may allow the hacker to take advantage of this authority.

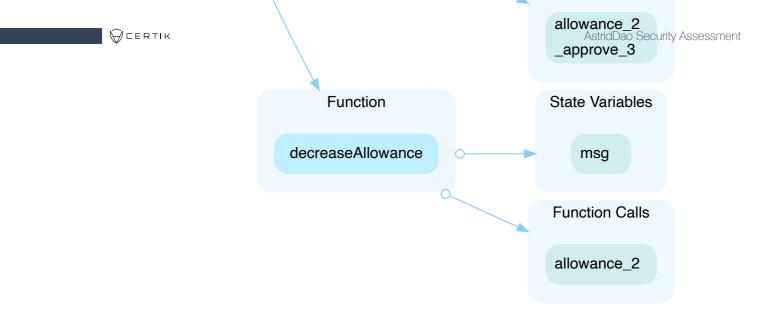


In the contract GovToken the role _owner has authority over the functions shown in the diagram below.

Any compromise to the _owner account may allow the hacker to take advantage of this authority.

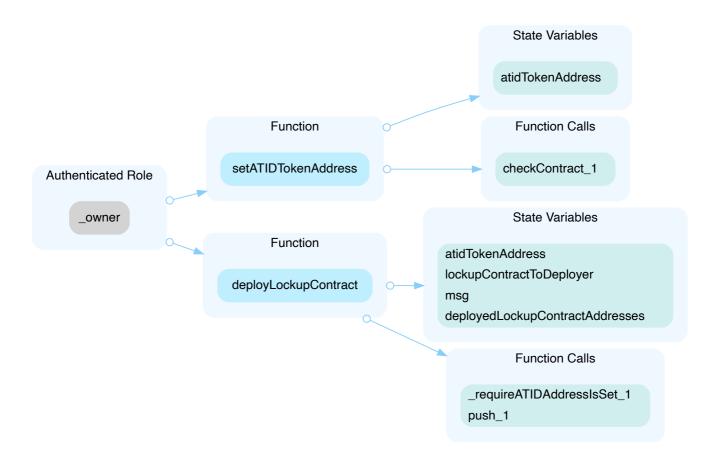






In the contract LockupContractFactory the role _owner has authority over the functions shown in the diagram below.

Any compromise to the _owner account may allow the hacker to take advantage of this authority.



Recommendation

The risk describes the current project design and potentially makes iterations to improve in the security operation and level of decentralization, which in most cases cannot be resolved entirely at the present stage. We advise the client to carefully manage the privileged account's private key to avoid any potential



risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets.

Indicatively, here are some feasible suggestions that would also mitigate the potential risk at a different level in terms of short-term, long-term and permanent:

Short Term:

Timelock and Multi sign ($\frac{3}{5}$) combination *mitigate* by delaying the sensitive operation and avoiding a single point of key management failure.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key compromised;

AND

 A medium/blog link for sharing the timelock contract and multi-signers addresses information with the public audience.

Long Term:

Timelock and DAO, the combination, *mitigate* by applying decentralization and transparency.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.
 AND
- A medium/blog link for sharing the timelock contract, multi-signers addresses, and DAO information with the public audience.

Permanent:

Renouncing the ownership or removing the function can be considered *fully resolved*.

- Renounce the ownership and never claim back the privileged roles.
 OR
- · Remove the risky functionality.

Alleviation



[AstridDAO Team]: Ownership is necessary so that (while for now managed by our team and necessary for enabling multi-sig support) we can incorporate a contract in the future to support on-chain governance (by having only a well defined set of calls that can be automatically triggered to adjust certain contract parameters and perform operations).



ADC-01 | Missing Emit Events

Category	Severity	Location	Status
Coding Style	Informational	ATID/ATIDToken.sol: 160, 170, 179, 195 ATID/ATIDStaking.sol: 357, 361, 365 ATID/CommunityIssuance.sol: 139 Dependencies/AstridBase.sol: 100, 104, 108, 111, 114, 117, 120, 130 BAIToken.sol: 97, 101, 105	⊗ Resolved

Description

There should always be events emitted in the sensitive functions that are controlled by centralization roles.

Recommendation

It is recommended emitting events for the sensitive functions that are controlled by centralization roles.

Alleviation

The AstridDao team has modified the code in commit 6f3569cf53ea037ec1f1bb83a10cf3bfe10120cb.



ADC-02 | Unlocked Compiler Version

Category	Severity	Location	Status
Language Specific	Informational	ATID/LockupContract.sol: 3 ATID/ATIDToken.sol: 3 ATID/GovToken.sol: 4 ATID/LockupContractFactory.sol: 3 ATID/ATIDStaking.sol: 3 ATID/CommunityIssuance.sol: 3 BAIToken.sol: 3	⊗ Resolved

Description

The contract has unlocked compiler version. An unlocked compiler version in the source code of the contract permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to different compiler versions. This can lead to an ambiguity when debugging as compiler specific bugs may occur in the codebase that would be hard to identify over a span of multiple compiler versions rather than a specific one.

Recommendation

We advise that the compiler version is instead locked at the lowest version possible that the contract can be compiled at. For example, for version v0.8.0 the contract should contain the following line:

```
pragma solidity 0.8.0;
```

Alleviation

The AstridDao team used the compiler version pragma solidity 0.8.13; in commit 6f3569cf53ea037ec1f1bb83a10cf3bfe10120cb.



ADC-03 | Missing Error Messages

Category	Severity	Location	Status
Coding Style	Informational	ATID/CommunityIssuance.sol: 115, 300 BAIToken.sol: 227, 228, 236, 244, 252, 253	(i) Acknowledged

Description

The **require** can be used to check for conditions and throw an exception if the condition is not met. It is better to provide a string message containing details about the error that will be passed back to the caller.

Recommendation

We advise adding error messages to the linked **require** statements.

Alleviation

The AstridDao team acknowledged this finding.



ATD-01 | Third Party Dependencies

Category	Severity	Location	Status
Logical Issue	Minor	ATID/ATIDStaking.sol: 69, 353	(i) Acknowledged

Description

The contract is serving as the underlying entity to interact with third-party colToken protocols. The scope of the audit treats 3rd party entities as black boxes and assumes their functional correctness. However, in the real world, 3rd parties can be compromised and this may lead to lost or stolen assets. In addition, upgrades of 3rd parties can possibly create severe impacts, such as increasing fees of 3rd parties, migrating to new LP pools, etc.

Recommendation

We understand that the business logic of ATIDStaking requires interaction with colToken. We encourage the team to constantly monitor the statuses of 3rd parties to mitigate the side effects when unexpected activities are observed.

Alleviation

The AstridDao team acknowledged this finding.



ATD-02 | Discussion On The ATIDStaking Contract

Category	Severity	Location	Status
Logical Issue	Minor	ATID/ATIDStaking.sol: 214	① Acknowledged

Description

The parameter variable _lockedUntil is unrestricted and can be the history time, is this in accordance with the design intent?

What is the rule for calling the <code>increaseF_COL()</code> and <code>increaseF_BAI()</code> functions? And this rule should be transparent to the community.

Recommendation

Review the code logic to ensure it meets design intent.

Alleviation

[AstridDao Team]:

- 1. A historical timestamp means the locked stake can be unlocked right away.
- 2. These two calls are for accounting for the overall fees received by the ATIDStaking contract from associated contracts (we take fees during borrowing and send them to ATIDStaking contract for ATID stakers to claim). They should have been only callable by the parties mentioned in the first line of their implementation (_require* calls)



ATD-03 | Redundant Code Components

Category	Severity	Location	Status
Volatile Code	Informational	ATID/ATIDStaking.sol: 365~367	① Acknowledged

Description

The linked statements do not affect the functionality of the codebase and appear to be either leftovers from test code or older functionality.

Recommendation

We advise to remove the redundant statements for production environments.

Alleviation

The AstridDao team acknowledged this finding.



ATD-04 | Discussion On unstakeLocked()

Category	Severity	Location	Status
Logical Issue	Informational	ATID/ATIDStaking.sol: 254	

Description

In the unstakeLocked() function, if an invalid locked stake ID is provided, such as 0, the user still gets their accumulated BAI and COL earnings.

But the comment on line 266 is "If this condition is false, the user is basically doing a fee top-up".

Is this consistent with the design intent?

Recommendation

Financial models of blockchain protocols need to be resilient to attacks. They need to pass simulations and verifications to guarantee the security of the overall protocol.

The financial model of this protocol is not in the scope of this audit.

Alleviation

The AstridDao team has modified the code comments in commit 6f3569cf53ea037ec1f1bb83a10cf3bfe10120cb.



ATI-01 | Unchecked ERC-20 transfer() / transferFrom() Call

Category	Severity	Location	Status
Volatile Code	Minor	ATID/ATIDStaking.sol: 244, 271, 280 ATID/CommunityIssuance.sol: 308 ATID/LockupContract.sol: 101	⊗ Resolved

Description

The return value of the transfer()/transferFrom() call is not checked.

File: projects/AstridDao/contracts/ATID/ATIDStaking.sol (Line 244, Function ATIDStaking.stakeLocked)

```
baiToken.transfer(msg.sender, BAIGain);
```

File: projects/AstridDao/contracts/ATID/ATIDStaking.sol (Line 271, Function ATIDStaking.unstakeLocked)

```
atidToken.transfer(msg.sender, ATIDToWithdraw);
```

File: projects/AstridDao/contracts/ATID/ATIDStaking.sol (Line 280, Function ATIDStaking.unstakeLocked)

```
baiToken.transfer(msg.sender, BAIGain);
```

File: projects/AstridDao/contracts/ATID/CommunityIssuance.sol (Line 308, Function CommunityIssuance.sendATID)

```
atidToken.transfer(_account, _ATIDamount);
```

File: projects/AstridDao/contracts/ATID/LockupContract.sol (Line 101, Function LockupContract.withdrawATID)

```
atidTokenCached.transfer(beneficiary, amount);
```

Recommendation



Since some ERC-20 tokens return no values and others return a bool value, they should be handled with care. We advise using the OpenZeppelin's SafeERC20.sol implementation to interact with the transferFrom() functions of external ERC-20 tokens. The OpenZeppelin implementation checks for the existence of a return value and reverts if false is returned, making it compatible with all ERC-20 token implementations.

Alleviation

The AstridDao team has modified the code in commit 6f3569cf53ea037ec1f1bb83a10cf3bfe10120cb.



CIA-01 | Tautology Or Contradiction

Category	Severity	Location	Status
Logical Issue	Major	ATID/CommunityIssuance.sol: 314	⊗ Resolved

Description

Comparisons that are always true or always false may be incorrect. This means any user can call functions sendATID() and issueATID().

File: projects/AstridDao/contracts/ATID/CommunityIssuance.sol (Line 314, Function CommunityIssuance._requireCallerIsStabilityPool)

```
require(stabilityPoolAddressToCollateralID[msg.sender] >= 0, "CommunityIssuance: caller
is not an SP");
```

Recommendation

We recommend fixing the incorrect comparison by changing the value type or the comparison operator.

Alleviation

The AstridDao team has modified the code in commit 6f3569cf53ea037ec1f1bb83a10cf3bfe10120cb.



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Language Specific

Language Specific findings are issues that would only arise within Solidity, i.e. incorrect usage of private or delete.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



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