

ZUNAMI SMART CONTRACTS SECURITY AUDIT REPORT

CONTFNTS

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INTRO

1.1 DISCLAIMER

The audit makes no assertions or warranties about the utility of the code, its security, the suitability of the business model, investment advice, endorsement of the platform or its products, the regulatory regime for the business model, or any other statements about the fitness of the contracts for their intended purposes, or their bug-free status. The audit documentation is for discussion purposes only.

INTRO

1.2 ABOUT OXORIO

Oxorio is a prominent audit and consulting firm in the blockchain industry, offering top-tier security audits and consulting to organizations worldwide. The company's expertise stems from its active involvement in designing and deploying multiple blockchain projects, wherein it developed and analyzed smart contracts.

With a team of more than six dedicated blockchain specialists, Oxorio maintains a strong commitment to excellence and client satisfaction. Its contributions to several blockchain projects reflect the company's innovation and influence in the industry. Oxorio's comprehensive approach and deep blockchain understanding make it a trusted partner for organizations in the sector.

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1.3 SÉCURITY ASSESSMENT METHODOLOGY

Several auditors work on this audit, each independently checking the provided source code according to the security assessment methodology described below:

1. Project architecture review

The source code is manually reviewed to find errors and bugs.

2. Code check against known vulnerabilities list

The code is verified against a constantly updated list of known vulnerabilities maintained by the company.

3. Security model architecture and structure check

The project documentation is reviewed and compared with the code, including examining the comments and other technical papers.

4. Cross-check of results by different auditors

The project is typically reviewed by more than two auditors. This is followed by a mutual cross-check process of the audit results.

5. Report consolidation

The audited report is consolidated from multiple auditors.

6. Re-audit of new editions

After the client has reviewed and fixed the issues, these are double-checked. The results are included in a new version of the audit.

7. Final audit report publication

The final audit version is provided to the client and also published on the company's official website.



1.4 FINDINGS CLASSIFICATION

1.4.1 Severity Level Reference

The following severity levels were assigned to the issues described in the report:

- CRITICAL: A bug that could lead to asset theft, inaccessible locked funds, or any other fund loss due to unauthorized party transfers.
- MAJOR: A bug that could cause a contract failure, with recovery possible only through manual modification of the contract state or replacement.
- WARNING: A bug that could break the intended contract logic or expose it to DDoS attacks.
- ♦ INFO: A minor issue or recommendation reported to or acknowledged by the client's team.

1.4.2 Status Level Reference

Based on the client team's feedback regarding the list of findings discovered by the contractor, the following statuses were assigned to the findings:

- **NEW**: Awaiting feedback from the project team.
- ♦ **FIXED**: The recommended fixes have been applied to the project code, and the identified issue no longer affects the project's security.
- ♦ **ACKNOWLEDGED**: The project team is aware of this finding. Fixes for this finding are planned. This finding does not affect the overall security of the project.
- ♦ NO ISSUE: The finding does not affect the overall security of the project and does not violate its operational logic.

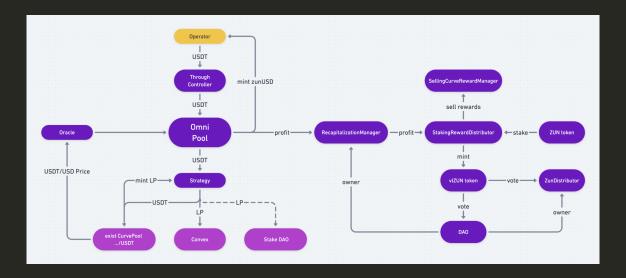
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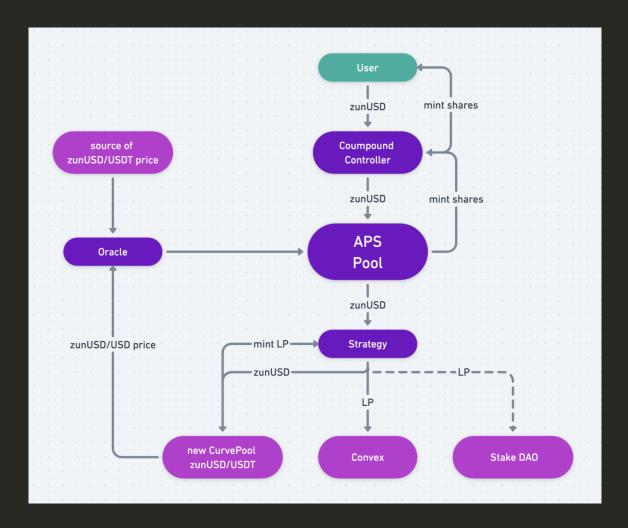
1.5 PROJECT OVERVIEW

Zunami is a protocol that aggregates stablecoin collateral to generate optimized yields.

Users deposit collateral to establish an omnipool. zunStables, representing shares of the omnipool, are issued to users. The omnipool provides liquidity across diverse yield-generating strategies. Profits are distributed among ZUN token stakers, who also hold governance rights. Stakers can vote to approve recapitalization.

System diagrams:





1.5.1 Documentation

For this audit, the following sources of truth about how the smart contracts should work were used:

main GitHub repository of the project.

The sources were considered to be the specification. In the case of discrepancies with the actual code behavior, consultations were held directly with the client team.

1.6 AUDIT SCOPE

The audit scope covers the following smart contracts:

- ♦ ZunamiStratBase.sol
- ♦ <u>ERC4626StratBase.sol</u>
- ♦ StakeDaoERC4626StratBase.sol
- CrvUsdStakeDaoERC4626StratBase.sol
- ♦ LlamalendCrvUsdStakeDaoERC4626Strat.sol
- ♦ TokenConverter.sol
- ♦ SellingCurveRewardManager2.sol
- ♦ SdtOracle.sol
- ♦ ZunEthOracle.sol

The audited commit identifier is 164cfab8b014d14c5f1b15792da2f859a85d08ec. The identifier of the commit with fixes is 2851418c125703fdc3513a76672725de042a1ebb. Additional fixes added in the commit 4e931f10026ac2d022c11f43d540c3394a0341eb.

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FINDINGS REPORT

21 CRITICAL

C-01	Claiming rewards is blocked after liquidity removal in ERC4626StratBase
Severity	CRITICAL
Status	• FIXED

Location

File	Location	Line
ERC4626StratBase.sol	contract ERC4626StratBase > function claimCollectedRewards	68

Description

In the function claimCollectedRewards of the contract ERC4626StratBase, the redeemableAssets variable is compared to depositedAssets value, resulting in rewards claim in case the value of redeemableAssets is greater. The depositedAssets is increased upon a deposit in the function depositLiquidity, but it never diminished during withdrawal. Thus, a call to removeLiquidity will result in decrease in liquidity in the vault, resulting in a decrease of the redeemableAssets variable upon the call to vault.previewRedeem() in the claimCollectedRewards function, but the depositedAssets will not change, resulting in the redeemableAssets > depositedAssets inequality returning false and preventing the rewards from being claimed.

```
function claimCollectedRewards() internal virtual override {
   uint256 redeemableAssets = vault.previewRedeem(depositedLiquidity);
   if (redeemableAssets > depositedAssets) {
      uint256 withdrawnAssets = redeemableAssets - depositedAssets;
      uint256 withdrawnShares = vault.convertToShares(withdrawnAssets);
      uint256[5] memory minTokenAmounts;
      removeLiquidity(withdrawnShares, minTokenAmounts, false);
      depositedLiquidity -= withdrawnShares;
   }
}
```

The following test case demonstrates the issue:

```
it.only('should claim rewards', async () => {
    const { admin, alice, zunamiPool, zunamiPoolController, strategies} = await loadFixture(
        deployFixture
    const llamaLandCrvUSD_vault_addr = '0xEdA215b7666936DEd834f76f3fBC6F323295110A';
    const strategy = strategies[0];
    await zunamiPool.addStrategy(strategy.address);
    await zunamiPoolController.setDefaultDepositSid(0);
    await zunamiPoolController.setDefaultWithdrawSid(0);
    const stableBefore = await zunamiPool.balanceOf(alice.getAddress());
    console.log('stable before deposit', stableBefore);
    await expect(
        zunamiPoolController
            .connect(alice)
            .deposit(getMinAmountZunUSD('1000'), alice.getAddress())
    ).to.emit(zunamiPool, 'Deposited');
    let stableAmount = BigNumber.from(await zunamiPool.balanceOf(alice.getAddress()));
    console.log('stable after deposit', stableAmount);
    console.log('deposited liquidity', await strategy.depositedLiquidity());
    console.log('vault CRVUSD balance before donation', await
crvUSD.balanceOf(llamaLandCrvUSD_vault_addr));
    await mintTokenTo(
        llamaLandCrvUSD_vault_addr, // Llamalend vault controller
        admin,
        '0xf939E0A03FB07F59A73314E73794Be0E57ac1b4E', // CRVUSD
        '0xa920de414ea4ab66b97da1bfe9e6eca7d4219635', // CRVUSD Vault
        parseUnits('100000', 'ether')
    console.log('vault CRVUSD balance after donation', await
crvUSD.balanceOf(llamaLandCrvUSD_vault_addr));
    await zunamiPool.connect(alice).approve(zunamiPoolController.address, stableAmount);
    console.log('deposited assets before withdraw', await strategy.depositedAssets());
    await expect(
```

Output:

```
stable before deposit BigNumber { value: "0" }
stable after deposit BigNumber { value: "3003094966727196661254" }
deposited liquidity BigNumber { value: "2962999331045711925473538" }
vault CRVUSD balance before donation BigNumber { value: "4515314334816784737785407" }
vault CRVUSD balance after donation BigNumber { value: "4615314334816784737785407" }
deposited assets before withdraw BigNumber { value: "3014670790067023793536" }
deposited assets after withdraw BigNumber { value: "3014670790067023793536" }
stable after withdraw BigNumber { value: "2903094966727196661254" }
deposited liquidity before claim BigNumber { value: "2865077463524275774038057" }
deposited liquidity after claim BigNumber { value: "2865077463524275774038057" }
```

Recommendation

We recommend updating the depositedAssets variable upon removing liquidity.

Update

Client's response

Fixed in the commit 3851418c125703fdc3513a76672725de042a1ebb.

2.2 MAJOR

M-01	Tokens' rate is ignored in CrvUsdStakeDaoERC4626Str atBase
Severity	MAJOR
Status	• FIXED

Location

File	Location	Line
CrvUsdStakeDaoERC4626StratBase.sol	<pre>contract CrvUsdStakeDaoERC4626StratBase > function c onvertAndApproveTokens</pre>	75
CrvUsdStakeDaoERC4626StratBase.sol	<pre>contract CrvUsdStakeDaoERC4626StratBase > function r emoveLiquidity</pre>	96

Description

In the mentioned locations and in similar logic of other strategies, potential slippage in the converter is limited:

```
function convertAndApproveTokens(
    ...
    uint256[POOL_ASSETS] memory amounts
) internal override returns (uint256 amount) {
    ...
    converter.handle(
     ...
     applySlippage(amounts[i]) * tokenDecimalsMultipliers[i]
    );
```

However, the amount of the input tokens (DAI/USDT/USDC in the convertAndApproveTokens function) is used to limit slippage for the output token (CRVUSD) without taking into account the difference in their rates.

```
function applySlippage(uint256 amount) internal view returns (uint256) {
  return (amount * (SLIPPAGE_DENOMINATOR - slippage)) / SLIPPAGE_DENOMINATOR;
}
```

If the rate of input and output token deviates from 1, the slippage mechanism works incorrectly. The following scenario is possible:

- ♦ The slippage parameter is set to 0.5%
- ♦ The USDT/CRVUSD rate is 2
- ♦ convertAndApproveTokens is called during deposit 1000 USDT
- minAmountOut_ parameter for the handle function of tokenConverter is set to 995
 CRVUSD. It means that the real slippage limit is 50.5%.

Recommendation

We recommend using the input/output token rate in the slippage limit calculation.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

23 WARNING

W-01	Missing parameter validation
Severity	WARNING
Status	• FIXED

Location

File	Location	Line
ZunEthOracle.sol	contract ZunEthOracle > constructor	23
SdtOracle.sol	contract SdtOracle > constructor	22
SellingCurveRewardManager2.sol	<pre>contract SellingCurveRewardManager2 > function setDefaultSlippage</pre>	35

Description

Parameter validation is not performed in the specified constructors and setter function. The lack of validation can lead to unpredictable behavior or the occurrence of panic errors.

Recommendation

We recommend implementing validation for parameters to ensure stable and predictable behavior.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

Oxorio's response

The parameter defaultSlippage of the function <u>setDefaultSlippage</u> is not validated against the upper bound - the <u>SLIPPAGE_DENOMINATOR</u> value. If the value of the defaultSlippage is greater than <u>SLIPPAGE_DENOMINATOR</u>, the function calcMinAmount will revert, resulting in blocked execution of the valuate and handle functions.

We recommend adding a validation defaultSlippage_ <= SLIPPAGE_DENOMINATOR to the setDefaultSlippage function.

Client's response

Fixed in the commit $\underline{4 \text{e} 931 \text{f} 10026 \text{a} \text{c} 2 \text{d} 022 \text{c} 11 \text{f} 43 \text{d} 540 \text{c} 3394 \text{a} 0341 \text{e} \text{b}}$.

```
W-02 Missing route validation in TokenConverter

Severity WARNING

Status • FIXED
```

File	Location	Line
<u>TokenConverter.sol</u>	contract TokenConverter > function setRoute	28-29

Description

In the setRoute function of the TokenConverter contract, there is no validation of route.length and swapParams.length. The values of these variables are used in the _fillRoutes and _fillSwapParams functions:

```
function _fillRoutes(
    ...
) internal view returns (address[11] memory routes_) {
    for (uint8 i; i < routes[tokenIn_][tokenOut_].route.length; ++i) {
        routes_[i] = routes[tokenIn_][tokenOut_].route[i];
    }
}

function _fillSwapParams(
    ...
) internal view returns (uint256[5][5] memory swapParams_) {
    for (uint8 i; i < routes[tokenIn_][tokenOut_].swapParams.length; ++i) {
        swapParams_[i] = routes[tokenIn_][tokenOut_].swapParams[i];
    }
}</pre>
```

These functions assume that route.length is less than or equal to 11 and swapParams.length is less than or equal to 5. Otherwise, an out-of-range error occurs.

Recommendation

We recommend adding the following parameter validation checks in the setRoute function:

```
if (route.length > 11) revert WrongLength();
if (swapParams.length > 5) revert WrongLength();
```

Update

Client's response

Fixed in the commit $\frac{3851418c125703fdc3513a76672725de042a1ebb}{}$.

W-03	Valuation result doesn't account for slippage in TokenC onverter
Severity	WARNING
Status	· NO ISSUE

File	Location	Line
<u>TokenConverter.sol</u>	contract TokenConverter > function valuate	82

Description

In the function <u>valuate</u> of the contract TokenConverter, the valuation of the input tokens is performed and the value of the ICurveRouterV1(curveRouter).get_dy() is returned. Thus, the caller of the valuate function is required to validate this value against a calculation that uses oracle prices of the valuated tokens. This workflow is different from the one used in other converters.

For example, the FraxEthNativeConverter checks the slippage inside the the valuate function and reverts in case the slippage is above treshold:

```
function valuate(bool buyToken, uint256 amount) public view returns (uint256 valuation) {
   if (amount == 0) return 0;
   int128 i = buyToken ? ETH_frxETH_POOL_WETH_ID : ETH_frxETH_POOL_frxETH_ID;
   int128 j = buyToken ? ETH_frxETH_POOL_frxETH_ID : ETH_frxETH_POOL_WETH_ID;
   valuation = fraxEthPool.get_dy(i, j, amount);

   if (valuation < applySlippage(amount, 0)) revert BrokenSlippage();
}</pre>
```

Similar approach is used in the StableConverter. The difference in the approach to checking slippage creates a missmatch in the responsibility of checking the slippage between the consumers of the converters.

Recommendation

We recommend using a unified approach to checking the slippage during the valuation call to prevent potential mistakes.

Update

Client's response

Other converters have become obsolete. With the new version of the TokenConverter, there is no need to use slippage.

2.4 INFO

I-01	Require is used for error handling
Severity	INFO
Status	• FIXED

Location

File	Location	Line
SdtOracle.sol	contract SdtOracle > function getUSDPrice	27
ZunEthOracle.sol	contract ZunEthOracle > function getUSDPrice	28
SellingCurveRewardManager2.sol	<pre>contract SellingCurveRewardManager2 > constructor</pre>	29
SellingCurveRewardManager2.sol	<pre>contract SellingCurveRewardManager2 > constructor</pre>	32
ZunamiStratBase.sol	contract ZunamiStratBase > function setSlippage	60
<u>ZunamiStratBase.sol</u>	<pre>contract ZunamiStratBase > function getLiquidityAmountByRatio</pre>	120

Description

In the mentioned locations and the other contracts outside of the current scope, require is used for the error handling.

Recommendation

We recommend using the error type instead of require to maintain the same code style throughout the entire project.

Update

Client's response

Fixed in the commit $\ \ \frac{3851418c125703fdc3513a76672725de042a1ebb}{\ \ }$.

I-02	Magic numbers
Severity	INFO
Status	• FIXED

File	Location	Line
SdtOracle.sol	contract SdtOracle > function getUSDPrice	28
ERC4626StratBase.sol	contract ERC4626StratBase > function getLiquidityTokenPrice	31
ERC4626StratBase.sol	contract ERC4626StratBase > function claimCollectedRewards	71
TokenConverter.sol	contract TokenConverter > function setRoute	29
TokenConverter.sol	contract TokenConverter > function setRoutes	38
TokenConverter.sol	contract TokenConverter > function valuate	79-80

Description

In the mentioned locations literal values with unexplained meaning are used to perform calculations.

Recommendation

We recommend defining a constant for every magic number, giving it a clear and self-explanatory name.

Update

Client's response

Fixed in the commit $\ \ \frac{3851418c125703fdc3513a76672725de042a1ebb}{\ \ }$.

Oxorio's response

The constant SDT_IDNEX introduced in the $\underline{SdtOracle.sol}$ contract contains a typo, the name should be $\underline{SDT_INDEX}$.

I-03	Inconsistent interface location in SdtOracle , ZunEthO racle
Severity	INFO
Status	• FIXED

File	Location	Line
SdtOracle.sol	interface ICurvePriceOracleNG	7
ZunEthOracle.sol	interface ICurvePriceOracleNG	7

Description

In the mentioned locations, interfaces are declared in contract implementation files. However, there is a separate interfaces folder for interfaces in the project.

Recommendation

We recommend moving the interfaces to the interfaces folder.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

I-04	Redundant imports in SellingCurveRewardManager2 , TokenConverter
Severity	INFO
Status	• FIXED

File	Location	Line
SellingCurveRewardManager2.sol	None	7
SellingCurveRewardManager2.sol	None	8
SellingCurveRewardManager2.sol	None	9
<u>TokenConverter.sol</u>	None	7

Description

The imports in the mentioned locations are redundant and can be removed.

Recommendation

We recommend removing unused imports to keep the codebase clean.

Update

Client's response

Fixed in the commit $\frac{3851418c125703fdc3513a76672725de042a1ebb}{}$.

I-05	Functions visibility not optimal in SellingCurveReward Manager2, TokenConverter
Severity	INFO
Status	• FIXED

File	Location	Line
SellingCurveRewardManager2.sol	contract SellingCurveRewardManager2 > function handle	41
SellingCurveRewardManager2.sol	contract SellingCurveRewardManager2 > function valuate	65
TokenConverter.sol	contract TokenConverter > function handle	54

Description

In the mentioned locations, functions are declared as <code>public</code>. However, they do not appear to be called from within the contracts in the codebase. Suppose a function is designed to be called by users and is not intended to be called by the other functions. In that case, it is better to declare them as <code>external</code> to reduce the gas cost associated with their execution.

Recommendation

We recommend declaring functions designed to be called externally as external.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

I-06	Wrong naming in ZunEthOracle
Severity	INFO
Status	• FIXED

File	Location	Line
ZunEthOracle.sol	<pre>contract ZunEthOracle > function _getZunUSDPriceForCurvePool</pre>	36

Description

In the function <u>getZunUSDPriceForCurvePool</u> of the contract ZunEthOracle, there is a function naming error: the name <u>getZunUSDPriceForCurvePool</u> is used instead of <u>getZunETHPriceForCurvePool</u>.

Recommendation

We recommend fixing the issue by replacing names of the function _getZunUSDPriceForCurvePool with _getZunETHPriceForCurvePool.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

I-07	Constant type name style in CrvUsdStakeDaoERC4626StratBase
Severity	INFO
Status	• FIXED

File	Location	Line
CrvUsdStakeDaoERC4626StratBase.sol	contract CrvUsdStakeDaoERC4626StratBase	15

Description

In the contract <u>CrvUsdStakeDaoERC4626StratBase.sol</u>, the constant type is used. However, its name is not in <u>UPPER_CASE_WITH_UNDERSCORES</u> style as recommended in the Solidity documentation.

Recommendation

We recommend using the UPPER_CASE_WITH_UNDERSCORES name style for the constant type.

Update

Client's response

Fixed in the commit 3851418c125703fdc3513a76672725de042a1ebb.

I-08	Redundant variable in SdtOracle
Severity	INFO
Status	• FIXED

File	Location	Line
SdtOracle.sol	contract SdtOracle	20
SdtOracle.sol	contract SdtOracle	22
SdtOracle.sol	contract SdtOracle	23

Description

In the contract <u>SdtOracle</u> the variable <u>_genericOracle</u> is redundant and can be removed.

Recommendation

We recommend removing the redundant variable.

Update

Client's response

Fixed in the commit $\frac{3851418c125703fdc3513a76672725de042a1ebb}{}$.

I-09	Confusing naming in SellingCurveRewardManager2
Severity	INFO
Status	• FIXED

File	Location	Line
SellingCurveRewardManager2.sol	contract SellingCurveRewardManager2 > function handle	57

Description

In the function handle of the contract SellingCurveRewardManager2, the variable feeTokenAmount is not participating in any fee-related logic, the associated token is named receivingToken according to the function parameter.

Recommendation

We recommend renaming the variable to receivingTokenAmount.

Update

Client's response

Fixed in the commit $\ \ \frac{3851418c125703fdc3513a76672725de042a1ebb}{\ \ }$.

I-10	Redundant cast in SellingCurveRewardManager2
Severity	INFO
Status	• FIXED

File	Location	Line
SellingCurveRewardManager2.sol	contract SellingCurveRewardManager2 > function handle	58

Description

In the function handle of the contract SellingCurveRewardManager2, the cast address(msg.sender) is redunant.

Recommendation

We recommend removing the redundant cast.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

I-11	Cache array length outside of loop in TokenConverter
Severity	INFO
Status	• FIXED

File	Location	Line
<u>TokenConverter.sol</u>	contract TokenConverter > function setRoutes	44
TokenConverter.sol	<pre>contract TokenConverter > function _fillRoutes</pre>	89
<u>TokenConverter.sol</u>	<pre>contract TokenConverter > function _fillSwapParams</pre>	98

Description

In the mentioned locations, the array length is not stored in a variable before the for loop is executed. If the length is not cached, the Solidity compiler will read the array length every time during each iteration.

Therefore, if it is a storage array, this leads to an additional sload operation, and if it is a memory array, then an additional mload operation.

Recommendation

We recommend caching the array length in the additional variable.

Update

Client's response

Fixed in the commit <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

3 CONCLUSION

The Zunami protocol security audit identified a range of vulnerabilities classified as critical, major, warning, and informational. The test coverage of the reward accounting logic was found insufficient to guarantee the correct performance of the protocol.

The suggested corrections were introduced by the procotol team, the final commit with fixes is <u>3851418c125703fdc3513a76672725de042a1ebb</u>.

The following table contains all the findings identified during the audit, grouped by statuses and severity levels:

Severity	FIXED	NO ISSUE	Total
	1	0	1
MAJOR	1	0	1
WARNING	2	1	3
INFO	11	0	11
Total	15	1	16

THANK YOU FOR CHOOSING

