Al-Qa'qa'

DYAD

DyadLpStaking Auditing Report

Auditor: Al-Qa'qa'



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1 Introduction

1.1 About Al-Qa'qa'

Al-Qa'qa' is an independent Web3 security researcher who specializes in smart contract audits. Success in placing top 5 in multiple contests on <u>code4rena</u> and <u>sherlock</u>. In addition to smart contract audits, he has moderate experience in core EVM architecture, geth.

For security consulting, reach out to him on Twitter - <a>@Al_Qa_qa

1.2 About DYAD

<u>DYAD</u> is a stablecoin protocol (Dollar pegged), it allows <u>ERC721</u> positions, where positions can be traded on third markets. In addition to this, they introduce the kerosine token, which its value depends on the volume of minted DYAD, and the locked collaterals, so it is as valuable as the degree of DYAD's over-collateralization.

1.3 Disclaimer

Security review cannot guarantee 100% the safeness of the protocol, In the Auditing process, we try to get all possible issues, and we can not be sure if we missed something or not.

Al-Qa'qa' is not responsible for any misbehavior, bugs, or exploits affecting the audited

code or any part of the deployment phase.

And change to the code after the mitigation process, puts the protocol at risk, and should be audited again.

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1.4 Risk Classification

Severity	Impact: High	Impact: Medium	Impact: Low
Likelihood: High	High	High	Medium
Likelihood: Medium	High	Medium	Low
Likelihood: Low	Medium	Low	Low

1.4.1 Impact

- High Funds are directly at risk, or a severe disruption of the protocol's core functionality
- Medium Funds are indirectly at risk, or some disruption of the protocol's functionality
- Low Funds are **not** at risk

1.4.2 Likelihood

- High almost certain to happen, easy to perform, or not easy but highly incentivized
- Medium only conditionally possible or incentivized, but still relatively likely
- Low requires stars to align or little-to-no incentive

2 Executive Summary

2.1 Overview

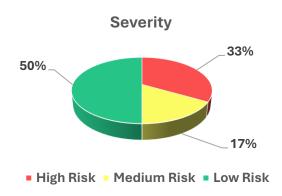
Project	DYAD Stablecoin
Repository	DyadStableCoin::feat/erc20-lp-staking
Commit Hash	b76cf79afdb2c68bc4f432597c593ab9a29a65b4
Mitigation Hash	8b7b1e34171c348d057c4fc3cdd2c96513776911
Audit Timeline	17 Oct 2024 to 23 Oct 2024

2.2 Scope

- src/staking/DyadLPStakingFactory.sol
- src/staking/DyadLPStaking.sol
- src/periphery/AtomicSwapExtension.sol
- src/periphery/RedeemCollateralExtension.sol

2.3 Issues Found

Severity	Count	
High Risk	2	
Medium Risk	1	
Low Risk	3	



3 Findings Summary

ID	Title	State
<u>H-01</u>	swapCollateral Lacks Note Owners Access Control	Fixed
<u>H-02</u>	Memory Pointer is Updated incorrectly	Fixed
<u>M-01</u>	Storing swapData into memory is implemented incorrectly	Fixed
<u>L-01</u>	There is no event emiting on changing Critical variables	Fixed
<u>L-02</u>	depositForRewards() is not checking for pausing of the contracts	Fixed
<u>L-03</u>	DyadLPStaking::deposit() is not checking the validity of dNFT	Fixed
<u>I-01</u>	pragma is missing in DyadLPStakingFactory Contract	Fixed
<u>I-02</u>	Unused contracts logic is inherited by DyadLpStaking	Fixed
<u>I-03</u>	Recovering ERC20 tokens should exclude Kerosine in DyadLPStakingFactory	Fixed
<u>I-04</u>	Claiming tokens is not checking zero amount claim	Fixed
<u>I-05</u>	Remove declared variable that are not used	Fixed
<u>I-06</u>	remove useless imports from the Codebase	Fixed

4 Findings

4.1 High Risk

4.1.1 swapCollateral Lacks Note Owners Access Control

context: AtomicSwapExtension.sol#L37-L44

Description

AtomicSwapExtension enables users to change their Collaterals, Users enabling this extension should be used to do that process.

In AtomicSwapExtension::swapCollateral() the function withdraw collaterals from Vault, and then the process completed via afterWithdraw() function. But the problem is that swapCollateral() is not checking that the caller is the Note Owner himself

AtomicSwapExtension.sol#L37-L44

```
function swapCollateral( ... ) external {
    // @audit `noteOwner == msg.sender` is missing
    // tstore swap data
    assembly {
        let size := calldatasize()
        let slot := 0
        for { let i := 0x64 } lt(i, size) { i := add(i, 0x20) } {
            tstore(slot, calldataload(i))
            slot := add(slot, 1)
        }
    }
    vaultManager.withdraw(noteId, fromVault, fromAmount, address(this));
}
```

So anyone can call that function at any noteId that its user allowed that extensions.

This will make anyone have the ability to change the collateral of other Notes he don't have access too. and the process can be more critical, as in High Slippage markets, the attacker can make the position lose by making a losing Swap, etc...

Recommendations

Check that the caller is the note owner.

_NOTE: you need to add dnft address itself in the constructor

Sponsor: Fixed at PR-120,

commit: 8997d434dea5985e058c649a953aae51ce800718

Al-Qa'qa': Verified. The issue has been fixed as recommended.



4.1.2 Memory Pointer is Updated incorrectly

context:

- AtomicSwapExtension.sol#L85
- Mitigating H-01 will make the function succeed with data truncation results in completely incorrect results.

Description

After fetching Data from Transit Storage and putting it in the memory using mstore, we are updating the memory pointer, but updating it is done by a completely incorrect method.

AtomicSwapExtension.sol#L85

After we Store the memory pointer in swapData, we load the swapData from transit storage, and after finish setting the memory pointer to the new value.

The problem here is that we are using Slot based addition to update our memory pointer.

If we are going to store 0x24 Bytes in memory, the memory will have the following values.

- [0x40]: Free memory Pointer (FMP)
- [FMP Slot]: Bytes length (0x24)
- [FMP + 1 Slot]: first 0x20 bytes
- [FMP + 2 Slot]: first [0x21, 0x24] data value (store only 4 bytes)
- Know if we should update memory pointer
- new memory pointer: old memory pointer + 0x20 (for the length value) + 0x24 (data itself)
- [0x40]: new memory pointer value

This is the correct way to update the free memory pointer, but in our implementation, we are doing two issues

1. We are not including the length of bytes, we just add the values of the bytes to the old memory pointer value, without taking into consideration the length of bytes that will take a complete slot 0x20

2. We are updating the FMP using iteration value, which is not correct the value in the last transit slot can be incomplete. Where if The data is a function with just one uint256 parameter, the length of the byte is 0x24. So the 2nd transit slot will only contain the last 4 bytes of data, but we are updating the value of FMP by increasing the total 0x20.

This will make the last data values get truncated (padded by zeros) as the FMP will prevent reading the values.

Recommendations

Update the FMP using the DataSize instead of depending on Slots, and add 0x20 for the Data length Slot.

Sponsor: Fixed at PR-122,

commit: 476f86c5b0fb0b642202791384d05696bd2e805c

Al-Qa'ga': Verified. The issue has been fixed as recommended.

4.2 Medium Risk

4.2.1 Storing swapData into memory is implemented incorrectly

context: AtomicSwapExtension.sol#L80-L83

Description

When doing our AtomicSwap, we store swapData in transit storage, then we read it and store it in the memory to do our call.

AtomicSwapExtension.sol#L80-L83

```
assembly {
    ...
    let swapDataSize := tload(3)
    // store the size of the swapData in the first slot of the memory
array

mstore(swapData, swapDataSize)
    // iterate over the addresses and copy them into the memory array
for {} lt(sub(i, 1), swapDataSize) { i := add(i, 1) } {
        // copy from transient storage into memory
        mstore(add(swapData, mul(i, 0x20)), tload(add(i, 3)))
}
```

```
// update the free memory pointer
   mstore(0x40, add(swapData, mul(sub(i, 1), 0x20)))
}
```

We initialize the iterator i by one, and each loop we increase its size by 1 till it reach the swapDataSize value.

The problem is that there is a difference between storing storage numbers and swapDataSize.

- swapDataSize represents the length of bytes, i.e each byte increases the size by 1. So in case we have a function signature with a single uint256 variable, we will have swapDataSize equals 32 + 4 = 36 byte.
- In the contrary, when dealing with load/store, we are dealing with slots, not bytes, i.e each slot represent 32 bytes.

Our iteration relies on bytes length, which will make it repeat 36 times in case of our example, but the store/load will end in the 2nd process.

The loop will still process loading zero bytes32 value from transit storage and store them in memory. with no need, making the Gas Cost increases significantly, which may lead to OOG in case of large sized swapData.

Since we are dealing with ParaSwap, the functions take a lot of parameters, which will make the SwapData size large, making the for loop contain to iterate, and can lead to OOG issues.

Recommendations

Instead of checking i against swapDataSize check i multiply 0x20

Sponsor: Fixed at PR-121,

commit: 55ab7f8a12188ed6c63bd8a99b4e20a05e2ac242

Al-Qa'qa': Verified. The issue has been fixed as recommended.

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4.3 Low Risk

4.3.1 There is no event emitting on changing Critical variables

context:

- DyadLPStakingFactory.sol#L102-L104
- DyadLPStakingFactory.sol#L140-L143

Description

The Staking Mechanism relies heavily on off-chain system, so emitting events is crucial for monitoring changes occur to DyadLPStakingFactory contract.

When changing pausing variable in DyadLPStakingFactory there is no event emitting.

<u>DyadLPStakingFactory.sol#L102-L104</u>

```
function setPaused(bool _paused) public onlyOwnerOrRoles(POOL_MANAGER_ROLE) {
   paused = _paused;
}
```

And when setting the percentage of fees that will be taken when withdrawing kerosine tokens directly, by changing directDepositBonusBps, there is no event emits too.

DyadLPStakingFactory.sol#L140-L143

```
function setDirectDepositBonus(uint16 _directDepositBonusBps) public
onlyOwnerOrRoles(REWARDS_MANAGER_ROLE) {
    require(_directDepositBonusBps <= 10000, InvalidBonus());
    directDepositBonusBps = _directDepositBonusBps;
}</pre>
```

This will make analyzing the changes occur to the Staking Contracts harder, which is used to distribute rewards to users, etc...

Recommendations

Emit events when firing setPaused() and setDirectDepositBonus() functions

Sponsor: Fixed at PR-118,

commit: 709e0e5761ecf0a7446227a099b5b36a6d4c3047, edbe2b124d07aad82300 e91ade8f8781ce8bb9de, 2d99879b70144b557ca8817e459a17eeaa8b40f8

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.3.2 depositForRewards() is not checking for pausing of the contracts

context: DyadLPStakingFactory.sol#L120

Description

DyadLPStakingFactory have pausing mechanism, that will result in stopping of rewards claiming by Stakers, by preventing claim() and claimToVault() functions.

There is another function that is used to add rewards to the system itself, which is depositForRewards(), this function is not checking for the pausing status, which means it can distribute rewards even if the staking is paused.

DyadLPStakingFactory.sol#L120

```
function depositForRewards(uint256 amount) public
onlyOwnerOrRoles(REWARDS_MANAGER_ROLE) {
    ...
}
```

Recommendations

Check for pausing of staking before distributing rewards.

```
diff --git a/src/staking/DyadLPStakingFactory.sol
b/src/staking/DyadLPStakingFactory.sol
index 439bf27..3d2aa48 100644
--- a/src/staking/DyadLPStakingFactory.sol
+++ b/src/staking/DyadLPStakingFactory.sol
@@ -117,7 +117,7 @@ contract DyadLPStakingFactory is OwnableRoles, IExtension {
        }
    }

- function depositForRewards(uint256 amount) public
onlyOwnerOrRoles(REWARDS_MANAGER_ROLE) {
+ function depositForRewards(uint256 amount) public
onlyOwnerOrRoles(REWARDS_MANAGER_ROLE) whenNotPaused {
        uint256 previousUnclaimedBonus = unclaimedBonus;
        unclaimedBonus = 0;
        if (amount < previousUnclaimedBonus) {</pre>
```

Sponsor: Fixed at PR-117,

commit: 854988d70aa7e829bb2a0e0a23c403c9a6fa6ca6

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.3.3 DyadLPStaking::deposit() is not checking the validity of dNFT

context: DyadLPStaking.sol#L37-L43

Description

DYAD

when users deposit tokens into a given LP token staking contract, and provide the noteId, there is not check weather this noteId is valid or not.

DyadLPStaking.sol#L37-L43

```
function deposit(uint256 noteId, uint256 amount) public {
   totalLP += amount;
   noteIdToAmountDeposited[noteId] += amount;
   lpToken.safeTransferFrom(msg.sender, address(this), amount);
   emit Deposited(noteId, amount);
}
```

This will allow users to stake for positions that haven't yet been created, besides the lack of robustness of the code, and compatibility with VaultManagerV5 that prevents depositing into an Invalid NoteId.

Recommendations

Check that the NoteId is valid, before depositing.

```
diff --git a/src/staking/DyadLPStaking.sol b/src/staking/DyadLPStaking.sol
index 534d402..30b2af2 100644
--- a/src/staking/DyadLPStaking.sol
+++ b/src/staking/DyadLPStaking.sol
@@ -35,6 +35,7 @@ contract DyadLPStaking is OwnableRoles {
    }

    function deposit(uint256 noteId, uint256 amount) public {
        require(dnft.ownerOf(noteId) != address(0), "Invalid NoteId");
        totalLP += amount;
        noteIdToAmountDeposited[noteId] += amount;
        lpToken.safeTransferFrom(msg.sender, address(this), amount);
```

Sponsor: Fixed at PR-117,

commit: 854988d70aa7e829bb2a0e0a23c403c9a6fa6ca6

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4 Informational Findings

4.4.1 pragma is missing in DyadLPStakingFactory contract

context: DyadLPStakingFactory.sol#L1

Description

Each solidity file .sol should have a pragma interface that determines the version uses with the Licence, but it is not in staking/DyadLPStakingFactory.sol file. It starts directly with imports.

```
import {Ownable} from "solady/auth/Ownable.sol";
import {DyadLPStaking} from "./DyadLPStaking.sol";
```

Recommendations

Put the pragma definition in the beginning of the file.

```
diff --git a/src/staking/DyadLPStakingFactory.sol
b/src/staking/DyadLPStakingFactory.sol
index 439bf27..45e9739 100644
--- a/src/staking/DyadLPStakingFactory.sol
+++ b/src/staking/DyadLPStakingFactory.sol
@@ -1,3 +1,6 @@
+// SPDX-License-Identifier: MIT
+pragma solidity ^0.8.27;
+
  import {Ownable} from "solady/auth/Ownable.sol";
  import {DyadLPStaking} from "./DyadLPStaking.sol";
  import {EnumerableSetLib} from "solady/utils/EnumerableSetLib.sol";
```

Sponsor: Fixed at PR-118,

commit: 709e0e5761ecf0a7446227a099b5b36a6d4c3047

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4.2 Unused contracts logic is inherited by DyadLpStaking

context: DyadLpStaking.sol#L11

Description

DyadLpStaking inherits from Soloday::OwnableRoles contract, which is used to represent Roles besides the Ownership of the contracts.

OwnableRoles inherits from Ownable, and there is no use for Rolling mechanism in DyadLpStaking.sol, making contract size larger with no need.

Recommendations

USE Ownable instead of OwnableRoles in DyadLpStaking.sol

```
diff --git a/src/staking/DyadLPStaking.sol b/src/staking/DyadLPStaking.sol
index 534d402..dd9e4fb 100644
--- a/src/staking/DyadLPStaking.sol
+++ b/src/staking/DyadLPStaking.sol
@@ -4,11 +4,11 @@ pragma solidity ^0.8.27;
import {IERC20} from "forge-std/interfaces/IERC20.sol";
 import {IERC721} from "forge-std/interfaces/IERC721.sol";
 import {SafeTransferLib} from "solady/utils/SafeTransferLib.sol";
-import {OwnableRoles} from "solady/auth/OwnableRoles.sol";
+import {Ownable} from "solady/auth/Ownable.sol";
 import {MerkleProofLib} from "solady/utils/MerkleProofLib.sol";
 import {FixedPointMathLib} from "solady/utils/FixedPointMathLib.sol";
-contract DyadLPStaking is OwnableRoles {
+contract DyadLPStaking is Ownable {
     using SafeTransferLib for address;
     using FixedPointMathLib for uint256;
```

Sponsor: Fixed at PR-118,

commit: 709e0e5761ecf0a7446227a099b5b36a6d4c3047

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4.3 Recovering ERC20 tokens should exclude Kerosine in DyadLPStakingFactory

context: DyadLPStakingFactory.sol#L201-L204

Description

In DyadLPStakingFactory contract, there are recovery functions that allow the Owner to take any ERC20 token or ERC721 token transferred wrongly to the contract. Since the contract uses kerosine tokens in depositing, it will contain a supply of kerosine tokens.

DyadLPStakingFactory.sol#L201-L204

```
function recoverERC20(address token) public onlyOwner {
   uint256 amount = IERC20(token).balanceOf(address(this));
   token.safeTransfer(msg.sender, amount);
}
```

Since these Kerosine tokens are claimable by stakers, there is no need to recover them back by the Owner who distribute them in the first place, and even in case of incorrect sending kerosine tokens by mistake, it is not a big deal it will make the Owner distribute less reward instead.

Recommendations

Prevent recovering kerosine tokens.

Sponsor: Fixed at PR-118,

commit: 709e0e5761ecf0a7446227a099b5b36a6d4c3047

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4.4 Claiming tokens is not checking zero amount claim

context:

- DyadLPStakingFactory.sol#L152-L158
- DyadLPStakingFactory.sol#L173-L177

Description

When claiming Rewards, there is no check if the reward is zero or not, the Kerosine Token transfer is fired even if there is no reward that Note owner has.

<u>DyadLPStakingFactory.sol#L152-L158</u> | <u>DyadLPStakingFactory.sol#L173-L177</u>

```
function claimToVault( ... ) ... {
    ...

vuint256 amountToSend = _syncClaimableAmount(noteId, amount);
    totalClaimed += uint128(amountToSend);

kerosene.safeApprove(address(vaultManager), amountToSend);
    vaultManager.deposit(noteId, keroseneVault, amountToSend);
    ...
}
```

This will make claimToVault go for approving, then depositing to VaultManager, which will call DyadxP, updating Note balance, using zero amount of tokens, which is not a good scenario for emitting such events for interactions that doesn't changed the State in reality.

Since the reward is taken by the Owner as one time using MerkleProof, the staker can forget and reclaim again. which increases the possibility of the occurrence of such scenario.

Recommendations

Check that the reward is greater than o

```
diff --git a/src/staking/DyadLPStakingFactory.sol
b/src/staking/DyadLPStakingFactory.sol
index 439bf27..149ede3 100644
--- a/src/staking/DyadLPStakingFactory.sol
+++ b/src/staking/DyadLPStakingFactory.sol
@@ -150,6 +150,7 @@ contract DyadLPStakingFactory is OwnableRoles, IExtension {
         _verifyProof(noteId, amount, proof);
         uint256 amountToSend = _syncClaimableAmount(noteId, amount);
         require(amountToSend > 0, "Reward Already Claimed");
         uint256 claimSubBonus = amountToSend.mulDiv(10000 - bonusBps, 10000);
         uint256 unclaimed = amountToSend - claimSubBonus;
         unclaimedBonus += uint96(unclaimed);
@@ -171,6 +172,7 @@ contract DyadLPStakingFactory is OwnableRoles, IExtension {
         _verifyProof(noteId, amount, proof);
         uint256 amountToSend = _syncClaimableAmount(noteId, amount);
         require(amountToSend > 0, "Reward Already Claimed");
         totalClaimed += uint128(amountToSend);
         kerosene.safeApprove(address(vaultManager), amountToSend);
```

NOTE: the modification can occur to _syncClaimableAmount itself. But Sync* functions are preferred to not have any revert statement

Sponsor: Fixed at PR-117,

commit: <u>854988d70aa7e829bb2a0e0a23c403c9a6fa6ca6</u>

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4.5 Remove declared variable that are not used

context: AtomicSwapExtension.sol#L61

Description

In AtomicSwapExtension::afterWithdraw(), the variable numberOfSlots is declared, but it is never used by the function.

AtomicSwapExtension.sol#L61

```
function afterWithdraw(uint256 id, address vault, uint256 amount, >> address
to) external {
    require(msg.sender == address(vaultManager), OnlyVaultManager());

>> uint256 numberOfSlots;
    ...
}
```

The idea is the same for the Fourth parameter in afterWithdraw, which is not used.

Recommendations

Remove number of slots and the fourth parameter name (not all the parameter).

```
diff --git a/src/periphery/AtomicSwapExtension.sol
b/src/periphery/AtomicSwapExtension.sol
index 6e3ade1..182f97e 100644
--- a/src/periphery/AtomicSwapExtension.sol
+++ b/src/periphery/AtomicSwapExtension.sol
@@ -55,10 +55,9 @@ contract AtomicSwapExtension is IExtension, IAfterWithdrawHook
         vaultManager.withdraw(noteId, fromVault, fromAmount, address(this));
     }
     function afterWithdraw(uint256 id, address vault, uint256 amount, address to)
external {
+ function afterWithdraw(uint256 id, address vault, uint256 amount, address /*
to */) external {
         require(msg.sender == address(vaultManager), OnlyVaultManager());
        uint256 numberOfSlots;
         address toVault;
         uint256 toAmount;
         bytes memory swapData;
```

Sponsor: Fixed at PR-122,

commit: ab0ab58b9582100aef8f18e9f0d990da88a7dfe2

Al-Qa'qa': Verified. The issue has been fixed as recommended.

4.4.6 remove useless imports from the Codebase

context:

- DyadLPStakingFactory.sol#L3
- DyadLPStaking.sol#L8-L9
- AtomicSwapExtension.sol#L8

Description

The codebase imports some functions and libraries that are not used by the files they are imported in, which makes the codebase gets larger and hard readable without reason.

DyadLPStakingFactory.sol#L3

```
import {Ownable} from "solady/auth/Ownable.sol";
import {DyadLPStaking} from "./DyadLPStaking.sol";
import {EnumerableSetLib} from "solady/utils/EnumerableSetLib.sol"; // useless
import
import {IERC20} from "forge-std/interfaces/IERC20.sol";
...
```

DyadLPStaking.sol#L8-L9

```
import {OwnableRoles} from "solady/auth/OwnableRoles.sol";
import {MerkleProofLib} from "solady/utils/MerkleProofLib.sol"; // useless import
import {FixedPointMathLib} from "solady/utils/FixedPointMathLib.sol"; // useless
import
contract DyadLPStaking is OwnableRoles {
```

AtomicSwapExtension.sol#L8

```
import {DyadHooks} from "../core/DyadHooks.sol";
import {console2} from "forge-std/console2.sol"; // useless import
import {ERC20} from "solmate/tokens/ERC20.sol";
...
```

This will result in contracts getting bigger which affects readability besides it makes SLOC increase with no need which increases the cost of the auditing process.

Recommendations

Remove useless imports from the contracts. For imports of Libraries, you need to remove the use of the library.

Sponsor: Fixed at PR-119,

commit: 397c7f100dc5c6a29779f955a6d14d55f5cc99fc

Al-Qa'qa': Verified. The issue has been fixed as recommended.