SECURITY AUDIT REPORT

for project: Raise DAO

by auditor: CodeShell

issued: 01 December 2022

ONE-PAGER

ABOUT

PROJECT

Name	RaiseDAO
Description	RaiseDAO contracts in the Scope aim to launch fundraising campaigns with customized terms.

AUDITOR

Team	CodeShell
Specialists	Two specialists

TASK

Scope links	Github page: - page [<u>link</u>] - commit 4a25e8399848795ca557c69a0e1364557ea 7512b [<u>link</u>]
Scope Description	Smart-contracts Transaction flow Connections with external contracts
Not-in-Scope	Frontend Best-Practice code remarks standardized libraries Gas efficiency (if not dangerous)
Networks	EVM networks
Languages	Solidity
Deployment env.	HardHat framework project
Timeline	bughunting: 31.10.2022 - 03.11.2022 check fixes and report: 14.11.2022 - 25.11.2022
To Do	To find some vulnerabilities of the code in the Scope, that will be possible to find given the time and efforts of specialists
Done	The auditor has found some vulnerabilities. They are described in the report as "Findings". The report does not cover all vulnerabilities possible.
Terms	The service of security analysis has been purchased by the project team.

FINDINGS

13 findings (7 fixed, 6 non-severe)

Using [Sale] naming for both SaleERC20.sol and SaleERCaleERC11.sol, as contracts are quite similar. Findings in Sale imply that they are applicable for both contracts, if not stated otherwise.

stated otherwise.	
HIGH acknowledged fixed	Sale allows payTokens to be anything, including tokens with dangerous design
MEDIUM acknowledged fixed	Sale.setIsUnhealthy() - setting isHealthy_=true is likely not designed
MEDIUM acknowledged fixed	Round.isFinal - new rounds can be pushed, even if the latest one has been set isFinal=true
MEDIUM acknowledged fixed	Factory.createSale() receives projectTokenDecimals as input when it is easily checked via calls
LOW acknowledged not fixed	SaleERC20.sol and SaleERC1155.sol have similar functionality - consider setting it aside in the separate contract and using inheritance
LOW downgraded from MEDIUM not acknowledged not fixed	Sale.buy() inconsistent balance calculation methodology
LOW acknowledged not fixed	No practical reason to use 1% rounding down in Sale
LOW acknowledged not fixed	No functions to manage real balances
LOW downgraded from HIGH acknowledged fixed	RaiseStore.sol - public control of token status
LOW downgraded from HIGH acknowledged not fixed	RaiseStore.buy() - arbitrary inputs and unpredictable execution
INFO acknowledged not fixed	projectToken design is out of control
INFO acknowledged fixed	Missing event for parameter changes
INFO acknowledged fixed	Туроѕ

FINDINGS

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Findings 3-9 Disclosures

10-11

1/1 HIGH

@ SaleERC20.sol
@ SaleERC1155.sol

Acknowledged Fixed Sale allows payTokens be anything, including tokens with dangerous design

Description

payToken is assumed to be pure ERC20, but some deviations are possible when the list of allowed payTokens is not limited.

Exploit Scenario One

In buy(), we have lines:

```
@ SaleERC20.sol, lines 241-246 and @ SaleERC1155.sol, lines 222-227
...
uint256 initialPayTokenBalance = payToken.balanceOf(address(this));
payToken.safeTransferFrom(msg.sender, address(this), payTokenAmount);
uint256 finalPayTokenBalance = payToken.balanceOf(address(this));
uint256 payTokenReceived = finalPayTokenBalance - initialPayTokenBalance;
...
```

Lines above can be exploited by hookable tokens. Msg.sender can receive call on payToken transfers and reenter, before token balance change is executed. initialPayTokenBalance will stay constant as before the first enter, but finalPayTokenBalance will rise with every cycle. Thus an attacker can set payTokenReceived to any amount desired.

Lines

[link]. [link]

Exploit Scenario Two

In all functions assuming internal balances not changing: internal balances can break if inflationary/deflationary/rebase/interestBearing tokens are used as payTokens. As internal balances do not check the real balanceOf(this).

Recommendation

Add the list of allowed payTokens, and introduce global reentrancy protection.

Status

The team acknowledged the issue and fixed it.

Reentrancy protection has been introduced at 783ac0b99a1a596ee5accfaa8c43c6a861713d21 and ac18dbcc1aa8f21ead327fc464fa0f6987d78a51 commit.

@ SaleERC20.sol

- $+ \qquad \texttt{import "@openzeppelin/contracts/security/ReentrancyGuard.sol";} \\$
- contract SaleERC20 is Pausable, Initializable {
- + contract SaleERC20 is Pausable, Initializable, ReentrancyGuard {
- function buy(uint256 payTokenAmount, uint8 allocationBonusPercent, bytes32[] memory proof) public whenNotPaused onlyHealthy {
- + function buy(uint256 payTokenAmount, uint8 allocationBonusPercent, bytes32[] memory proof)
 public whenNotPaused nonReentrant onlyHealthy {

@ SaleERC1155.sol

- + import "@openzeppelin/contracts/security/ReentrancyGuard.sol";
- contract SaleERC1155 is Pausable, Initializable, ERC1155Holder {
- + contract SaleERC1155 is Pausable, Initializable, ERC1155Holder, ReentrancyGuard {
- function buy(uint256 nftId, uint256 payTokenAmount, uint8 allocationBonusPercent, bytes32[] memory proof) public whenNotPaused onlyHealthy {
- function buy(uint256 nftId, uint256 payTokenAmount, uint8 allocationBonusPercent, bytes32[] memory proof) public whenNotPaused nonReentrant onlyHealthy {

1/3 **MEDIUM**

- @ SaleERC20.sol @ SaleERC1155.sol
- Fixed

Acknowledged

Sale.setIsUnhealthy() - setting isHealthy_=true is likely not designed

Description

Contract is likely designed to not expect setting Unhealthy sales back to Healthy.

```
@ SaleERC20.sol, lines 394-401 and @ SaleERC1155.sol, lines 359-366
function\ setIsUnhealthy (bool\ isUnhealthy\_)\ public\ only RaiseAdmin\ \{
        isUnhealthy = isUnhealthy_;
        if (isUnhealthy)
             \verb|sumToRefundIfUnhealthy| = totalPayTokenCollected - totalPayTokenWithdrawn; \\
        emit HealthStatusSet(isUnhealthy_);
    }
```

Lines

[link], [link]

Exploit Scenario

For instance, imagine isHealthy set false, users can refund() some portion of payToken, their donatedPayTokenByUser will set zero. But after isHealthy is set back to true, mapping isHealthy is set back to true, boughtProjectTokenByUser is not empty, and user can still receive projectTokens calling claim(). Other bad untested scenarios are possible.

Recommendation

Disable setting isUnhealthy variable from true back to false.

Status

The team acknowledged the issue and fixed it. ${\tt Commit~18bcceb06cbd6f115a370044416c694c37dfec70~desabled~setting~isUnhealthy~back~to~false.}$

```
For @ SaleERC20.sol
        /// @param isUnhealthy_ Unhealthy status
        function setIsUnhealthy(bool isUnhealthy_) public onlyRaiseAdmin {
        isUnhealthy = isUnhealthy_;
        function setIsUnhealthy() public onlyRaiseAdmin {
        isUnhealthy = true;
        sumToRefundIfUnhealthy = totalPayTokenCollected - totalPayTokenWithdrawn;
        emit UnhealthStatusSet(true);
For @ SaleERC1155.sol
        emit HealthStatusSet(true);
        emit UnhealthStatusSet(true);
@ SaleERC20.sol and @ SaleERC1155.sol
        event HealthStatusSet(bool isUnhealthy);
        event UnhealthStatusSet(bool isUnhealthy);
```

2/3 **MEDIUM**

Round.isFinal - new rounds can be pushed, even if the latest one has been set isFinal=true

@ SaleERC20.sol

Acknowledged Fixed

Description

Parameter isFinal is checked only in withdraw(). It is quite unlikely being designed, that new rounds can be pushed when the latest one is set final.

```
@ SaleERC20.sol, line 191
```

 $require (rounds Length == 0 \ || \ rounds [rounds Length-1]. was Stopped \ || \ rounds [rounds Length-1]. was$ block.timestamp, "First stop ongoing round");

Lines

[link]

Recommendation

Add additional checks for round finality.

Status

The team acknowledged the issue and fixed it. The fix at 783ac0b99a1a596ee5accfaa8c43c6a861713d21 commit checks round finality.

@ SaleERC20.sol

+ require(rounds.length == 0 || !rounds[rounds.length-1].isFinal, "Can't add round after final one"); // Either there're no rounds or last round is not final

3/3 MEDIUM

Fixed

 ${\tt Factory.createSale()} \ \ {\tt receives} \ \ {\tt projectTokenDecimals} \ \ {\tt as} \ \ {\tt input} \ \ {\tt when} \ \ {\tt it} \ \ {\tt is} \ \ {\tt easily} \ \ {\tt checked} \ \ {\tt via} \ \ {\tt calls}$

@ SaleFactory.sol

Acknowledged

Description

There no practical reason for manual decimals inputed. Moreover, it can introduce the risk of manual accidential mistakes.

```
@ SaleFactory.sol, lines 34-51
```

Lines

[link]

Recommendation

 ${\tt Consider\ using\ projectTokenAddr.decimals()\ call}$

Status

The team acknowledged the issue and fixed it. Decimals is not the input since 783ac0b99a1a596ee5accfaa8c43c6a861713d21 commit.

@ SaleFactory.sol

- /// @param projectTokenDecimals Decimals of project token
- uint256 projectTokenDecimals,
- + import "@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol";
- + uint256 projectTokenDecimals = IERC20Metadata(projectTokenAddr).decimals();

SaleERC20.sol and SaleERC1155.sol have similar functionality - consider setting it aside in the separate 1/6 contract and use inheritance LOW @ SaleERC20.sol Description @ SaleERC1155.sol Both contracts have similar functions, modifiers, variables. Acknowledged Current design implies that code corrections must be done in two contracts simultaneously. This leaves the Not Fixed risk of manual mistakes and risk of leaving some vulnerabilities on contracts after fixes. The team acknowledged the issue but did not change the contract structure, with the reason that similarities are not significant at the current moment. 2/6 Sale.buy() inconsistent balance calculation methodology LOW Description @ SaleFRC20.sol Calculation for projectTokenAmount uses payTokenAmount (minus) input within buy() call. Not Acknowledged Calculation for totalPayTokenCollected and donatedPayTokenByUser uses the construction Not Fixed balance->TransferFrom->Balance to calculated payTokens received in fact. This construction usually is used to get rid off the effects of some special tokens (like deflationary ones) but here it is implemented inconsistent and may introduce risks (one calculation for formulas, another one to be written in variables). @ SaleERC20.sol, lines 241-246 uint256 initialPayTokenBalance = payToken.balanceOf(address(this)); payToken.safeTransferFrom(msg.sender, address(this), payTokenAmount); uint256 finalPayTokenBalance = payToken.balanceOf(address(this)); uint256 payTokenReceived = finalPayTokenBalance - initialPayTokenBalance; @ SaleERC20.sol, lines 220-223 function buy(uint256 payTokenAmount, uint8 allocationBonusPercent, bytes32[] memory proof) public whenNotPaused onlyHealthy { Round memory ongoingRound = getOngoingRound(); uint256 projectTokenAmount = payTokenAmount * oneProjectToken / ongoingRound.tokenPrice; Lines [link], [link] Recommendation Add the list of allowed payTokens, with predictable behavior and that will not require checks. Status The team has not acknowledged the issue with the reason that deflationary token do not introduce exploit scenarios and losses of deflationary tokens are negligible. No code changes. No practical reason in using 1% rounding down in Sale 3/6 LOW @ SaleERC20.sol Description For percentage calculation 100 is used, thus all shares are rounded to 1%. That is the risk for more Acknowledged precise calculations. Like in claim() function. Not Fixed @ SaleERC20.sol, line 261 uint256 percentsWithdrawn = withdrawnProjectToken * 100 / boughtProjectToken; Lines [<u>link</u>] Recommendation Consider using at least 10000 for percentage calculations.

Status

The team acknowledged the issue but did not change the percentage calculation, with the reason that more precision will not be required.

4/6 LOW

@ SaleERC20.sol @ SaleERC1155.sol

Acknowledged Not fixed

No functions to manage real balances

Description

Sale contracts use internal balance variable to calculate transfers, even emergency functions. It is better to check real balances using balanceOf(this) where possible. In additional, some tokens can stuck by mistakes. For instance, an owner can fund a Sale contract ignoring fund() function, and send tokens to contract directly. It is recommended when there are functions to manage such cases.

Status

The team acknowledged the issue but did not change the balance accounting, with the reason that managing real balances will introduce more risks and attack vectors. It is expected that users will not send tokens to contract directly (they will use contract functions).

5/6 LOW

@ RaiseStore.sol

Acknowledged Fixed

RaiseStore.sol - public control of token status

Description

Functions whitelistTokens() and blacklistTokens() are accessible by anyone, thus the mapping whitelistedTokens is out of control. Blacklisted tokens can easily leave the blacklist, the same with whitelisted ones.

@ RaiseStore.sol, lines 38-48

```
function whitelistTokens(address[] calldata tokens) public {
    for(uint i = 0; i < tokens.length; i++) {
        whitelistedTokens[tokens[i]] = true;
    }
}

function blacklistTokens(address[] calldata tokens) public {
    for(uint i = 0; i < tokens.length; i++) {
        whitelistedTokens[tokens[i]] = false;
    }
}</pre>
```

Lines

[<u>link</u>], [<u>link</u>]

Status

The finding was initially evaluated as HIGH. The team stated that the contract will not participate in the sensitive smart contract logic elsewhere and will be used for frontend calculations only. That is why the severity was decreased to LOW. Nevertheless the team fixed the issue with the onlyOwner modifier at 783ac0b99a1a596ee5accfaa8c43c6a861713d21 commit.

@ RaiseStore.sol

- function whitelistTokens(address[] calldata tokens) public {
- + function whitelistTokens(address[] calldata tokens) public onlyOwner {
- function blacklistTokens(address[] calldata tokens) public {
- + function blacklistTokens(address[] calldata tokens) public onlyOwner {

6/6 LOW

 ${\tt RaiseStore.buy() - arbitrary \ inputs \ and \ unpredictable \ execution}$

@ RaiseStore.sol

Acknowledged Not Fixed

Description

Calldata input order is not checked. Thus an attacker can provide any item content desired.

@ RaiseStore.sol, lines 50-65

```
function buy(UserOrder calldata order) public {
    for(uint256 i = 0; i < order.items.length; i++) {
        OrderItem memory item = order.items[i];

        require(whitelistedTokens[item.payToken], "Token is not whitelisted");

        _mint(msg.sender, item.itemUUID, item.amount, "");
        uint256 sum = item.amount * item.itemPrice;
        uint256 fee = sum * serviceFeePromille / 1000;

        IERC20(item.payToken).safeTransferFrom(msg.sender, order.sellerAddr, sum - fee);
        IERC20(item.payToken).safeTransferFrom(msg.sender, address(this), fee );
    }

    emit UserBought(order.sellerAddr, order);
}</pre>
```

Lines

[link]

Exploit Scenario

- mint any itemUUID with any amount to msg.sender
- pay with any payToken, or set a malicious contract as payToken to receive calls

Status

The finding was initially evaluated as HIGH. The team stated that the contract will not participate in the sensitive smart contract logic elsewhere and will be used for frontend calculations only. That is why the severity was decreased to LOW. No code changes added for this issued.

1/3 INFO

@ SaleERC20.sol

@ SaleERC1155.sol

Acknowledged Not Fixed

projectToken design is out of control

Description

Sale contracts do much projectToken transfers, but the code implementation is unpredictable. In addition, it is hardly applicable to have the list of allowed tokens.

Recommendation

One of the options is to demand projectTokens to be cloned from one single contract with the expected design.

Status

The team acknowledged the issue but did not changed the code, with the reason that projectTokens will be checked manually.

2/3 INFO

- @ SaleERC20.sol
- @ SaleERC1155.sol
- @ Staking.sol

Acknowledged Fixed

Missing event for parameter changes

```
@ SaleERC20.sol, line 406 and @ SaleERC1155.sol, line 368
serviceFeePercent = newFeePercent;
@ Staking.sol, lines 334, 340, 346, 353-357
pools[poolId].allocPoints = allocPoints;
penaltyPercent = penaltyPercent_;
raisePerBlock = newRaisePerBlock;
if (tier == Tier.Fan) requiredTierStakeInfo.fan = requiredStake;
else if (tier == Tier.Merchant) requiredTierStakeInfo.merchant = requiredStake;
else if (tier == Tier.Dealer) requiredTierStakeInfo.dealer = requiredStake;
else if (tier == Tier.Broker) requiredTierStakeInfo.broker = requiredStake;
```

```
else if (tier == Tier.Tycoon) requiredTierStakeInfo.tycoon = requiredStake;
                     [link],[link],[link],[link]
                    Recommendation
                    Consider checking functions for relevant event emitting.
                    Info finding was fixed by the team at commits 783ac0b99a1a596ee5accfaa8c43c6a861713d21 and
                    18bcceb06cbd6f115a370044416c694c37dfec70
                      @ SaleERC20.sol and @ SaleERC1155.sol
                              event ServiceFeeSet(uint8 newFeePercent);
                              emit ServiceFeeSet(newFeePercent);
                      @ Staking.sol
                              event AllocationPointsSet(uint256 poolId, uint256 allocPoints);
                              event PenaltyPercentSet(uint8 penaltyPercent_);
                              event RaisePerBlockSet(uint256 newRaisePerBlock);
                               emit AllocationPointsSet(poolId, allocPoints);
                              emit PenaltyPercentSet(penaltyPercent_);
                              emit RaisePerBlockSet(newRaisePerBlock);
3/3
                    Typos
INFO
@ SaleERC20.sol
                      @ SaleERC20.sol, lines 166, 167
@ SaleFactory.sol
                      Maxmum - Maximum
Acknowledged
                        /// @param maxAllocation Maxmum amount of project tokens can be bought in the round
Fixed
                        /// @param maxAllocationPerUser Maxmum amount of project tokens can be bought be one user in the round
                      @ SaleFactory.sol, line 60
                      {\bf implementation} \ - \ {\bf implementation}
                        /// @notice Updates sale contract implementation
                     [link],[link],[link]
                    Info finding was fixed by team in 783ac0b99a1a596ee5accfaa8c43c6a861713d21 commit
                      @ SaleERC20.sol
                              /// <code>@param maxAllocation Maxmum amount of project tokens can be bought in the round</code>
                              /// @param maxAllocationPerUser Maxmum amount of project tokens can be bought be one user in the
                              /// @param maxAllocation Maximum amount of project tokens can be bought in the round
                              /// @param maxAllocationPerUser Maximum amount of project tokens can be bought be one user in
                              the round
```

@ SaleFactory.sol

/// @notice Updates sale contract implementation /// @notice Updates sale contract implementation

CODE IN THE SCOPE

GITHUB

Link	https://github.com/RaiseDAO/contract s/tree/4a25e8399848795ca557c69a0e136 4557ea7512b
Contracts	RaiseStore.sol SaleERC20.sol SaleERc1155.sol SaleFactory.sol Staking.sol

REPORT CHANGELOG

The first report version was published on HackMD: https://hackmd.io/@iZKFKn8zRW-FOK4IQ8L-eQ/SkwYpWqHi
The later versions are published on Odd Sequence Github page, where changes can be tracked: https://github.com/oddsequence

FINDINGS STATUS

HIGH

1/1 Acknowledged, Fixed, then Published

MEDIUM

1/3	Acknowledged, Fixed, then Published
2/3	Acknowledged, Fixed, then Published
3/3	Acknowledged, Fixed, then Published

LOW

1/6	Acknowledged, Not Fixed, but Published
2/6	Not acknowledged, Not fixed, but Published
3/6	Acknowledged, Not Fixed, but Published
4/6	Acknowledged, Not Fixed, but Published
5/6	Acknowledged, Fixed, then Published
6/6	Acknowledged, Not Fixed, but Published

INFO

1/3	Acknowledged, Not Fixed, but Published
2/3	Acknowledged,Fixed, then Published
3/3	Acknowledged,Fixed, then Published

DISCLOSURES

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Findings

Disclosures

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