

Linea SpinGame V2 Audit Report

Prepared by Cyfrin Version 2.1

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1 About Cyfrin

Cyfrin is a Web3 security company dedicated to bringing industry-leading protection and education to our partners and their projects. Our goal is to create a safe, reliable, and transparent environment for everyone in Web3 and DeFi. Learn more about us at cyfrin.io.

2 Disclaimer

The Cyfrin team makes every effort to find as many vulnerabilities in the code as possible in the given time but holds no responsibility for the findings in this document. A security audit by the team does not endorse the underlying business or product. The audit was time-boxed and the review of the code was solely on the security aspects of the solidity implementation of the contracts.

3 Risk Classification

	Impact: High	Impact: Medium	Impact: Low
Likelihood: High	Critical	High	Medium
Likelihood: Medium	High	Medium	Low
Likelihood: Low	Medium	Low	Low

4 Protocol Summary

Linea SpinGame is part of the Linea ecosystem, designed to provide additional incentives to users in the form of ERC20, ERC721, or native tokens. It is a spin/lottery-style contract that utilizes Gelato VRF to generate randomness. All user interactions require off-chain signatures from a trusted service before being validated on-chain. Additionally, the protocol team has the ability to boost the win probability for certain participants, increasing their chances of receiving a prize.

Changes made in this audit include the removal of the consolation NFT and making the contracts upgradeable.

4.1 Actors and Roles

1. Actors:

- **Protocol Team:** Manages the contracts and provides prizes. Ensures that the contract has a sufficient balance of ERC20, ERC721, or native tokens to pay out prizes.
- Off-Chain Service: Signs user requests for participation and prize claims.
- Users: Participate in the Linea ecosystem and have a chance to win prizes.

2. Roles:

- CONTROLLER:
 - Can update prizes.
- DEFAULT_ADMIN_ROLE:
 - Can update core contract settings, including:
 - * Changing the Gelato VRF Operator
 - * Updating the signer address
 - * Withdrawing ERC20, ERC721, and native tokens from the contract

- * Cancelling expired participation requests (pending for more than 1 hour)
- Can assign new controllers.
- signer:
 - A wallet responsible for signing user interactions and applying boost values.

4.2 Key Components

• SpinGame: The core contract responsible for handling the lottery and prize distribution.

4.3 Centralization Risks

The CONTROLLER and DEFAULT_ADMIN_ROLE accounts have extensive privileges, including full access to the contract and the ability to withdraw funds.

Additionally, the signer wallet has the ability to spam participation requests, which could deplete available prizes and drain the protocol's Gelato balance.

The contract is also upgradeable, giving the admin the power to modify logic post-deployment. While useful for fixes and upgrades, this introduces trust assumptions around the upgrade path and admin governance.

To mitigate risks, all privileged wallets must be securely managed to prevent unauthorized access or potential takeovers.

4.4 ERC20 Token Concerns

The protocol team noted that some ERC20 prize tokens may include common DeFi protocol tokens. Some DeFi tokens are rebasing and can decrease in balance over time, leading to potential depreciation in value.

If rebasing tokens are used as prizes, the team should monitor the contract's balance to ensure it remains sufficient for prize payouts.

5 Audit Scope

contracts/src/Spin.sol

6 Executive Summary

Over the course of 4 days, the Cyfrin team conducted an audit on the Linea SpinGame V2 smart contracts provided by Linea. In this period, a total of 11 issues were found.

During the audit, two low-severity issues were identified. One could cause underflow of lotAmount if prizes are misconfigured, and the other relates to global state usage for asynchronous VRF requests, which may result in users receiving unintended prizes or boosts.

Several informational findings were reported, including misleading comments, upgradeability concerns, overcomplicated logic in <code>_addPrizes</code>, and minor state cleanup issues. Gas optimizations were also suggested, such as caching repeated storage reads to reduce unnecessary gas costs.

The test suite was thorough and well-structured, covering both success paths and revert paths.

After the audit concluded, the team removed the prize-claim signing mechanism. This update was reviewed in PR #578 (commits e81485a and 1365a4c). Subsequent commits, 5704000 and 4466d17, also cleaned up the remaining state in cancelParticipation and _fulfillRandomness. Both changes were audited and deemed safe.

4466d17 was the final merged commit. The compiled bytecode of Spin.sol, using the foundry.toml configuration, was verified to match the bytecode committed in SpinGame-2025-06-30.json.

Summary

Project Name	Linea SpinGame V2
Repository	linea-hub
Commit	0af327319636
Fix Commit	4466d17de780
Audit Timeline	Jun 24th - Jun 28th, 2025
Methods	Manual Review

Issues Found

Critical Risk	0
High Risk	0
Medium Risk	0
Low Risk	2
Informational	6
Gas Optimizations	3
Total Issues	11

Summary of Findings

[L-1] Lack of validation when updating prizes can lead to lotAmount underflow when randomness is fulfilled	Resolved
[L-2] Asynchronous VRF request fulfillment uses stale or incorrect parameters due to lack of request-specific data tracking	Acknowledged
[I-1] Overcomplicated _addPrizes function designed for incremental updates but only used for complete prize resets	Resolved
[I-2] Incorrect and misleading comments throughout the codebase create confusion	Resolved
[I-3] Stale request id mapping persists for losing spins	Resolved
[I-4] Missing _disableInitializers() in constructor	Resolved
[I-5] GelatoVRFConsumerBase is not upgrade-safe	Resolved
[I-6] latestPrizeId name is misleading	Resolved
[G-1] Cache signer in SpinGame::participate	Resolved
[G-2] Cache prize.probability before first use	Resolved

[G-3] Cache prize.amount in SpinGame::_transferPrize Resolved	
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7 Findings

7.1 Low Risk

7.1.1 Lack of validation when updating prizes can lead to lotAmount underflow when randomness is fulfilled

Description: In SpinGame::_fulfillRandomness, there's an unchecked block that decrements prize.lotAmount without validating its current value:

```
/// Should never underflow due to earlier check.
unchecked {
    prize.lotAmount -= 1;
}

if (prize.lotAmount == 0) {
    totalProbabilities -= prizeProbability;
    prize.probability = 0;
}
```

However, the comment claiming that the underflow is prevented by "an earlier check" is outdated as the check was removed in commit db6ae3d, making the assumption incorrect. As a result, if a prize is added with a lotAmount of 0, the unchecked decrement will underflow to type(uint32).max.

Impact: This underflow results in the prize appearing to have an extremely large lotAmount, allowing users to repeatedly win and claim that prize well beyond the intended quantity. While this requires a misconfiguration by an admin (e.g. setting lotAmount = 0), such errors are plausible in practice and could go unnoticed.

Proof of Concept: The following test demonstrates the underflow in lotAmount when a prize is registered with lotAmount = 0:

```
function testFulfillRandomnessWithOLotAmount() external {
   MockERC20 token = new MockERC20("Test Token", "TST");
    ISpinGame.Prize[] memory prizesToUpdate = new ISpinGame.Prize[](1);
    uint256[] memory empty = new uint256[](0);
   prizesToUpdate[0] = ISpinGame.Prize({
        tokenAddress: address(token),
        amount: 500 * 1e18.
       lotAmount: 0,
       probability: 1e8,
        availableERC721Ids: empty
   });
   vm.prank(controller);
    spinGame.updatePrizes(prizesToUpdate);
   uint64 nonce = 1;
   uint64 expirationTimestamp = uint64(block.timestamp + 1);
    uint64 boost = 1e8;
    ISpinGame.ParticipationRequest memory request = ISpinGame.ParticipationRequest({
        expirationTimestamp: expirationTimestamp,
       nonce: nonce,
       boost: boost
   }):
    bytes32 messageHash = spinGame.hashParticipationExt(request);
    (uint8 v, bytes32 r, bytes32 s) = vm.sign(signer, messageHash);
    ISpinGame.Signature memory signature = ISpinGame.Signature(r, s, v);
    assertFalse(spinGame.nonces(user, nonce));
```

```
vm.prank(user);
   uint256 requestId = spinGame.participate(nonce, expirationTimestamp, boost, signature);
    assertTrue(spinGame.nonces(user, nonce));
   bytes memory extraData = new bytes(0);
   bytes memory data = abi.encode(requestId, extraData);
   uint256 round = 15608646;
   bytes memory dataWithRound = abi.encode(round, data);
    vm.prank(vrfOperator);
    spinGame.fulfillRandomness(2, dataWithRound);
   uint32[] memory prizeIds = new uint32[](1);
   prizeIds[0] = 0;
   uint256[] memory amounts = spinGame.getUserPrizesWon(user, prizeIds);
    assertEq(amounts[0], 1);
    assertEq(spinGame.hasWonPrize(user, 0), true);
    ISpinGame.Prize memory prize = spinGame.getPrize(0);
    assertEq(prize.lotAmount,type(uint32).max);
}
```

Recommended Mitigation: To prevent this underflow, validate that lotAmount > 0 when registering new prizes in _addPrizes:

```
uint32 lotAmount = _prizes[i].lotAmount;

+    if (lotAmount == 0) {
        revert InvalidLotAmount();
    }

if (prizeAmount == 0) {
        if (erc721IdsLen != lotAmount) {
            revert MismatchERC721PrizeAmount(erc721IdsLen, lotAmount);
        }
    } else {
        if (erc721IdsLen != 0) {
            revert ERC20PrizeWrongParam();
        }
    }
}
```

This ensures that any prize expected to be distributed has a non-zero quantity, eliminating the possibility of underflow during fulfillment.

Linea: Fixed in commit 02d6d57

Cyfrin: Verified. lotAmount no verified to be non-zero when a new prize is added.

7.1.2 Asynchronous VRF request fulfillment uses stale or incorrect parameters due to lack of requestspecific data tracking

Description: The SpinGame contract has a critical architectural flaw in how it handles asynchronous VRF requests. The contract stores user boost values and prize configurations globally rather than tying them to specific requests, leading to inconsistent game behavior when prize structures change or users make multiple participation requests.

There are two primary issues:

First, prize configurations lack versioning. The SpinGame::updatePrizes function completely resets the prize structure by deleting existing prizeIds and resetting totalProbabilities to zero before adding new prizes. When a user calls SpinGame::participate, they receive a signature based on the current prize structure. However, if SpinGame::updatePrizes is called between the request and VRF fulfillment, the SpinGame::_fulfillRandomness

function will use the updated prize structure instead of the one the user expected when participating. This means users could win entirely different prizes than what was available when they participated.

Second, request-specific data is not properly tracked. The SpinGame::participate function stores the user's boost value in userToBoost[user], but this mapping gets overwritten if the same user participates again with a different boost before the first request is fulfilled. When SpinGame::_fulfillRandomness executes, it retrieves the boost using uint64 userBoost = userToBoost[user], which may not be the boost value from the original request. This creates scenarios where a user who participated with a 150% boost could have their request fulfilled with a 500% boost if they made a second participation with higher boost before the first VRF callback.

The contract only tracks minimal request data through requestIdToUser and requestIdTimestamp mappings, but fails to capture the complete context needed for proper request fulfillment including the specific boost value and prize structure version at request time.

Impact: Users may receive different prizes or win probabilities than expected when they participated, leading to unfair game outcomes and potential loss of funds.

```
// Scenario 1: Prize structure changes between request and fulfillment
1. User calls participate() when Prize A (50% chance) and Prize B (30% chance) are available
2. Controller calls updatePrizes() with Prize C (60% chance) and Prize D (20% chance)
3. VRF fulfills the request using new prize structure with C and D instead of A and B

// Scenario 2: Multiple participations with different boosts
1. User calls participate() with 150% boost, gets requestId1
2. User calls participate() with 500% boost, gets requestId2
3. VRF fulfills requestId1 but uses 500% boost instead of 150%
```

Recommended Mitigation: Implement request-specific data tracking with prize versioning:

```
+ uint256 public prizeVersion;
+ mapping(uint256 requestId => uint64 boost) public requestIdToBoost;
+ mapping(uint256 requestId => uint256 prizeVersion) public requestIdToPrizeVersion;
function updatePrizes(Prize[] calldata _prizes) external onlyController {
    delete prizeIds;
   totalProbabilities = 0;
   prizeVersion++;
    _addPrizes(_prizes);
function participate(
   uint64 _nonce,
   uint256 _expirationTimestamp,
   uint64 _boost,
   Signature calldata _signature
) external returns (uint256) {
   // \dots existing validation \dots
  userToBoost[user] = _boost;
   uint256 requestId = _requestRandomness("");
   requestIdToUser[requestId] = user;
   requestIdTimestamp[requestId] = block.timestamp;
  requestIdToBoost[requestId] = _boost;
   requestIdToPrizeVersion[requestId] = prizeVersion;
   // ... rest of function ...
}
function _fulfillRandomness(
   uint256 _randomness,
   uint256 _requestId,
   bytes memory
```

```
) internal override {
    address user = requestIdToUser[_requestId];
    if (user == address(0)) {
        revert InvalidRequestId(_requestId);
    }

+ // Verify prize version hasn't changed
+ if (requestIdToPrizeVersion[_requestId] != prizeVersion) {
        revert PrizeVersionMismatch();
    }

- uint64 userBoost = userToBoost[user];
+ uint64 userBoost = requestIdToBoost[_requestId];

// ... rest of fulfillment logic ...

+ delete requestIdToBoost[_requestId];
+ delete requestIdToPrizeVersion[_requestId];
}
```

Linea: Acknowledged. We have discussed L2 issue internally. We decided to not fix it because the prizes will be generally the same just with new allocations. In the case of different prizes, we are okay with the behavior that users can win different prizes.

7.2 Informational

7.2.1 Overcomplicated _addPrizes function designed for incremental updates but only used for complete prize resets

Description: The SpinGame::_addPrizes function was originally designed to incrementally add new prizes to an existing prize pool while preserving existing prizes. However, the function is only called by SpinGame::updatePrizes, which first completely resets the prize state by calling delete prizeIds and setting totalProbabilities = 0. This makes the preservation logic in _addPrizes unnecessary and creates several inefficiencies:

- 1. The function copies the existing prizeIds array into existingArray, which is always empty after the reset
- 2. It creates a new array with size len + existingArrayLen where existingArrayLen is always 0
- 3. It loops through the empty existing array to copy non-existent prize IDs

The current implementation effectively replaces the entire prize pool but retains incremental addition logic, left over from a removed SpinGame::addBatchPrizes function, which no longer serves a meaningful purpose.

Impact: The overcomplicated implementation increases gas costs and code complexity without providing any functional benefit since the incremental addition logic is never utilized.

Recommended Mitigation: Since updatePrizes always performs a complete reset, we can simplify _addPrizes to remove preservation logic and rename it to _setPrizes.

Linea: Fixed in PR#558, commits 0d8611d, f9b1bd2, e115331, 2d619e1, 7920d00

Cyfrin: Verified.

- updatePrizes renamed to setPrizes
- existingArray logic removed, no iterating over the previous array.
- delete of prizeIds removed, prizeIds instead overwritten with the memory array newPrizeIds

7.2.2 Incorrect and misleading comments throughout the codebase create confusion

Description: The SpinGame contract and ISpin interface contain multiple incorrect, misleading, and inconsistent comments that do not accurately describe the functionality of the code they document. These comments create confusion for developers, auditors, and future maintainers of the codebase.

- 1. **Line 458 in** SpinGame::_operator(): The comment states "Returns the address of the dedicated _ms-gSender()" which is incorrect. The function returns the vrfOperator address, not anything related to _ms-gSender(). This function specifies which address is authorized to call the VRF fulfillment callback. We guess this comment was copied from the GelatoVRFConsumerBase without careful consideration.
- 2. **Line 123 in SpinGame::getPrize()**: The @param _prizeId comment states "Id of the prize to claim" which is misleading since this is a view function that only returns prize information, not a claiming function.
- 3. **Line 132 in SpinGame::getUserPrizesWon():** The @return comment states "Amounts of prize won" when the function actually returns the count/number of times each prize was won, not token amounts.
- 4. **Line 59**: The mapping comment states "(userAddress => prizeId => amountOfPrizeIdWon)" but uses "amount" terminology when it actually tracks the number of times a prize was won.
- 5. **Line 32**: The comment "Last used prizeld" is misleading because latestPrizeId represents the next available prize ID, not the last used one.
- 6. **Line 157 in SpinGame::getPrizesAmount():** The @return comment states "PrizesAmount The amount of prizes available" but the variable name suggests it's a count, not an amount. This creates ambiguity about whether it refers to quantity or value.
- 7. Lines 290, 300, 309: The admin withdraw functions are labeled as @dev Controller function but they actually require DEFAULT_ADMIN_ROLE, not CONTROLLER_ROLE.

8. **Line 465**: The @param _prizes comment states "Prizes to update" which doesn't clearly indicate this function completely replaces all existing prizes rather than updating them.

Impact: Incorrect documentation can lead to implementation errors, security vulnerabilities, and wasted development time as developers may rely on misleading comments instead of analyzing the actual code behavior.

Recommended Mitigation: Update all misleading comments to accurately reflect the actual functionality:

```
- /// @notice Returns the address of the dedicated _msgSender().
+ /// @notice Returns the address of the VRF operator authorized to fulfill randomness requests.

- /// @param _prizeId Id of the prize to claim.
+ /// @param _prizeId Id of the prize to retrieve information for.

- /// @return Amounts of prize won.
+ /// @return Number of times each prize was won by the user.

- /// @notice Last used prizeId.
+ /// @notice Next available prize ID to be assigned.

- /// @dev Controller function to withdraw ERC20 tokens from the contract.
+ /// @dev Admin function to withdraw ERC20 tokens from the contract.

- /// @param _prizes Prizes to update.
+ /// @param _prizes Prizes to replace all existing prizes with.
```

Linea: Fixed in commits 9f9d9fd and b407331.

Cyfrin: Verified. Comments corrected.

7.2.3 Stale request id mapping persists for losing spins

Description: One change from the previous version of SpinGame is the removal of the "LuckyNFT," which served as a consolation prize for users who did not win a "proper" prize.

As part of this change, the clearing of the request mapping (requestIdToUser) was moved so that it now occurs **only** in the prize win path, as shown in SpinGame::_fulfillRandomness:

```
userToPrizesWon[user][selectedPrizeId] += 1;
    delete requestIdToUser[_requestId];
    emit PrizeWon(user, selectedPrizeId);

    return;
    }
}
emit NoPrizeWon(user);
}
```

However, it is considered good housekeeping to clear the requestIdToUser mapping regardless of whether the user wins or not. This ensures consistent state cleanup and prevents potential stale entries from persisting.

Consider unconditionally clearing the request mapping as follows:

```
function _fulfillRandomness(
    uint256 _randomness,
    uint256 _requestId,
    bytes memory
) internal override {
    address user = requestIdToUser[_requestId];
    if (user == address(0)) {
        revert InvalidRequestId(_requestId);
    }
+ delete requestIdToUser[_requestId];
```

```
userToPrizesWon[user][selectedPrizeId] += 1;

delete requestIdToUser[_requestId];
    emit PrizeWon(user, selectedPrizeId);

return;
}
emit NoPrizeWon(user);
}
```

Linea: Fixed in commit 9f9d9fd

Cyfrin: Verified. requestIdToUser deleted at the beginning of _fulfillRandomness.

7.2.4 Missing _disableInitializers() in constructor

Description: The SpinGame contract is upgradeable but does **not** call _disableInitializers() in its constructor. In upgradeable contract patterns, this call is a best practice to prevent the implementation (logic) contract from being initialized directly.

While this doesn't affect the proxy's behavior, it helps protect against accidental or malicious use of the implementation contract in isolation, especially in environments where both proxy and implementation contracts are visible, like block explorers.

Consider adding the following line to the constructor of the SpinGame contract:

```
constructor(address _trustedForwarderAddress) ERC2771ContextUpgradeable(_trustedForwarderAddress) {
   _disableInitializers();
}
```

This ensures that the implementation contract cannot be initialized independently.

Linea: Fixed in commit 9f9d9fd

Cyfrin: Verified. Constructor now calls _disableInitializers.

7.2.5 GelatoVRFConsumerBase is not upgrade-safe

Description: The SpinGame contract has been changed to be upgradeable. But, the contract inherits from GelatoVRFConsumerBase, which is not upgrade-safe as it lacks a reserved storage gap (uint256[x] private __gap) to prevent future storage collisions. This poses a risk if the GelatoVRFConsumerBase contract is modified upstream (e.g. adds state variables), it could lead to storage layout corruption during upgrades.

Since GelatoVRFConsumerBase is an external dependency outside the control of the audited codebase, this risk cannot be addressed directly within that contract.

However to mitigate the risk, consider adding a storage buffer to account for potential future changes in GelatoVR-FConsumerBase. This can be done by:

Adding a _gap in SpinGame itself:

```
uint256[x] private __gelatoBuffer;
```

2. Alternatively, inserting an intermediate "buffer" contract in the inheritance chain that exists solely to reserve storage space:

```
contract GelatoVRFGap {
    uint256[x] private __gap;
}
```

contract SpinGame is ..., GelatoVRFConsumerBase, GelatoVRFGap

This ensures that even if GelatoVRFConsumerBase adds storage in the future, it won't overwrite critical storage slots in SpinGame.

Linea: Fixed in commit 9f9d9fd

Cyfrin: Verified, first storage slots in the contract now is uint256[50] private __gelatoBuffer

7.2.6 latestPrizeId name is misleading

Description: As part of changes in this audit, the latestPrizeId variable now functions as a counter for the next available prize ID, rather than tracking the most recently used one as in the previous version. This creates a naming mismatch, since latestPrizeId no longer reflects its actual behavior.

The function _addPrizes even caches it as nextPrizeId, which is a more accurate description. Consider renaming it as nextPrizeId.

Linea: Fixed in commits 8266a91 and dd8de7b

Cyfrin: Verified. Field renamed to nextPrizeId and stack variable in __addPrizes renamed to currentPrizeId.

7.3 Gas Optimization

7.3.1 Cache signer in SpinGame::participate

Description: In SpinGame::participate, the signer state variable is accessed multiple times:

```
address recoveredSigner = ECDSA.recover(...);
if (recoveredSigner != signer || signer == address(0)) {
    revert SignerNotAllowed(recoveredSigner);
}
```

In contrast, SpinGame::claimPrize caches signer to a local variable (cachedSigner) before comparison. This avoids redundant storage reads, which are more expensive than local memory accesses.

Considerer caching signer in a local variable at the start of the relevant check in SpinGame::participate as well.

Linea: Fixed in commit 0290123

Cyfrin: Verified. signer is cached and the cached value is used in the comparisons.

7.3.2 Cache prize.probability before first use

Description: In SpinGame::_fulfillRandomness(), prize.probability is first read in an if statement, and then cached immediately afterward:

```
if (prize.probability == 0) {
    continue;
}
uint64 prizeProbability = prize.probability;
```

This results in an unnecessary initial storage read before caching. Consider caching it above the if-statement.

Linea: Fixed in commit 0290123

Cyfrin: Verified. The caching of prize.probability is moved above the if and the cached value is used in the comparison.

7.3.3 Cache prize.amount in SpinGame::_transferPrize

Description: In SpinGame::_transferPrize, when transferring either an ERC20 or native token prize, the prize.amount field is read three times: once for the if check, once to compare against the contract balance, and again when executing the transfer:

```
if (prize.amount > 0) {
    ...
    if (contractBalance < prize.amount) {
        revert PrizeAmountExceedsBalance(..., prize.amount, contractBalance);
    }
    ...
    token.safeTransfer(_winner, prize.amount);
}</pre>
```

This results in three separate reads of the same storage slot. Since the value does not change during execution, it can be cached once.

Consider caching prize.amount at the head of the first if:

```
uint256 amount = prize.amount;
if (amount > 0) {
    ...
    if (contractBalance < amount) {
        revert PrizeAmountExceedsBalance(..., amount, contractBalance);
    }
}</pre>
```

```
token.safeTransfer(_winner, amount);
}
```

Linea: Fixed in commit 0290123

Cyfrin: Verified. prize.amount is now cached and the cached value is used.