

Security Audit

Report for Cellula Life Game V2 and CELL Token

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Report Manifest

Item	Description
Client	Cellula
Target	Cellula Life Game V2 and CELL Token

Version History

Version	Date	Description
1.0	June 25, 2024	First release

Signature

About BlockSec BlockSec focuses on the security of the blockchain ecosystem and collaborates with leading DeFi projects to secure their products. BlockSec is founded by top-notch security researchers and experienced experts from both academia and industry. They have published multiple blockchain security papers in prestigious conferences, reported several zero-day attacks of DeFi applications, and successfully protected digital assets that are worth more than 14 million dollars by blocking multiple attacks. They can be reached at [Email](#), [Twitter](#) and [Medium](#).

Chapter 1 Introduction

1.1 About Target Contracts

Information	Description
Type	Smart Contract
Language	Solidity
Approach	Semi-automatic and manual verification

The focus of this audit is on the Cellula Life Game V2¹ and [CELL](#) token² of the Cellula. The Cellula introduces a Full-Chain Game that combines two types of NFTs: [BitCell](#) and [BitLife](#). The issuance curve is determined by the [VRGDA](#) method, with [BitCell](#) having a fixed total supply of 10,220 units and [BitLife](#) having no upper limit on the total supply. The game rules are based on the logic of Conway's Game of Life, where each [BitCell](#) is a 3x3 matrix, and each [BitLife](#) NFT requires a combination of 2 to 9 [BitCells](#) to be minted.

Please note that the audit scope is limited to the following smart contracts:

```
1 contract-energy-factory-v2/contracts/V2/CellGameV2.sol
2 contract-energy-factory-v2/contracts/V2/LifeV2.sol
3 contract-cell-token/contracts/CellulaToken.sol
```

Listing 1.1: Audit Scope for this Report

Other files are not within the scope of the audit. Additionally, all dependencies of the smart contracts within the audit scope are considered reliable in terms of both functionality and security, and are therefore not included in the audit scope.

The auditing process is iterative. Specifically, we would audit the commits that fix the discovered issues. If there are new issues, we will continue this process. The commit SHA values during the audit are shown in the following table. Our audit report is responsible for the code in the initial version ([Version 1](#)), as well as new code (in the following versions) to fix issues in the audit report.

Project	Version	Commit Hash
Cellula Life Game V2	Version 1	cb65597e3c22860c27a6807d69f0df17d2326945
	Version 2	cc3b11d82516535c56b38d4a1b2536b995315d69
CELL Token	Version 1	c182ee24658f7505953a693b1830810b0915c737

1.2 Disclaimer

This audit report does not constitute investment advice or a personal recommendation. It does not consider, and should not be interpreted as considering or having any bearing on, the potential economics of a token, token sale or any other product, service or other asset.

¹<https://github.com/cellulalifegame/contract-energy-factory-v2>

²<https://github.com/cellulalifegame/contract-cell-token>

Any entity should not rely on this report in any way, including for the purpose of making any decisions to buy or sell any token, product, service or other asset.

This audit report is not an endorsement of any particular project or team, and the report does not guarantee the security of any particular project. This audit does not give any warranties on discovering all security issues of the smart contracts, i.e., the evaluation result does not guarantee the nonexistence of any further findings of security issues. As one audit cannot be considered comprehensive, we always recommend proceeding with independent audits and a public bug bounty program to ensure the security of smart contracts.

The scope of this audit is limited to the code mentioned in Section 1.1. Unless explicitly specified, the security of the language itself (e.g., the solidity language), the underlying compiling toolchain and the computing infrastructure are out of the scope.

1.3 Procedure of Auditing

We perform the audit according to the following procedure.

- **Vulnerability Detection** We first scan smart contracts with automatic code analyzers, and then manually verify (reject or confirm) the issues reported by them.
- **Semantic Analysis** We study the business logic of smart contracts and conduct further investigation on the possible vulnerabilities using an automatic fuzzing tool (developed by our research team). We also manually analyze possible attack scenarios with independent auditors to cross-check the result.
- **Recommendation** We provide some useful advice to developers from the perspective of good programming practice, including gas optimization, code style, and etc.

We show the main concrete checkpoints in the following.

1.3.1 Software Security

- * Reentrancy
- * DoS
- * Access control
- * Data handling and data flow
- * Exception handling
- * Untrusted external call and control flow
- * Initialization consistency
- * Events operation
- * Error-prone randomness
- * Improper use of the proxy system

1.3.2 DeFi Security

- * Semantic consistency
- * Functionality consistency
- * Permission management
- * Business logic

- * Token operation
- * Emergency mechanism
- * Oracle security
- * Whitelist and blacklist
- * Economic impact
- * Batch transfer

1.3.3 NFT Security

- * Duplicated item
- * Verification of the token receiver
- * Off-chain metadata security

1.3.4 Additional Recommendation

- * Gas optimization
- * Code quality and style

 **Note** The previous checkpoints are the main ones. We may use more checkpoints during the auditing process according to the functionality of the project.

1.4 Security Model

To evaluate the risk, we follow the standards or suggestions that are widely adopted by both industry and academy, including OWASP Risk Rating Methodology ³ and Common Weakness Enumeration ⁴. The overall *severity* of the risk is determined by *likelihood* and *impact*. Specifically, likelihood is used to estimate how likely a particular vulnerability can be uncovered and exploited by an attacker, while impact is used to measure the consequences of a successful exploit.

In this report, both likelihood and impact are categorized into two ratings, i.e., *high* and *low* respectively, and their combinations are shown in Table 1.1.

Table 1.1: Vulnerability Severity Classification

Impact	<i>High</i>	High	Medium
	<i>Low</i>	Medium	Low
		<i>High</i>	<i>Low</i>
		Likelihood	

³https://owasp.org/www-community/OWASP_Risk_Rating_Methodology

⁴<https://cwe.mitre.org/>

Accordingly, the severity measured in this report are classified into three categories: **High**, **Medium**, **Low**. For the sake of completeness, **Undetermined** is also used to cover circumstances when the risk cannot be well determined.

Furthermore, the status of a discovered item will fall into one of the following four categories:

- **Undetermined** No response yet.
- **Acknowledged** The item has been received by the client, but not confirmed yet.
- **Confirmed** The item has been recognized by the client, but not fixed yet.
- **Fixed** The item has been confirmed and fixed by the client.

Chapter 2 Findings

In total, we found **three** potential security issues. Besides, we have **three** recommendations and **one** note.

- Medium Risk: 2
- Low Risk: 1
- Recommendation: 3
- Note: 1

ID	Severity	Description	Category	Status
1	Medium	Incorrect index update of <code>token_ids</code>	Software Security	Fixed
2	Low	Lack of refund in function <code>buyFood()</code>	DeFi Security	Fixed
3	Medium	Lack of <code>payToken</code> check in function <code>setLifeCreationConfig()</code>	DeFi Security	Fixed
4	-	Lack of balance check in function <code>setPayTokenAddress()</code>	Recommendation	Fixed
5	-	Lack of following Checks Effects Interactions pattern	Recommendation	Fixed
6	-	Lack of invoking function <code>_disableInitializers()</code>	Recommendation	Fixed
7	-	Potential centralization risks	Note	-

The details are provided in the following sections.

2.1 Software Security

2.1.1 Incorrect index update of `token_ids`

Severity Medium

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description In the function `batchCreateLife()`, the update index for `token_ids` incorrectly runs from 0 to the gene's quantity number. This is incorrect and a new round of token IDs will override previous ones.

```
783 function batchCreateLife(uint256[][][] calldata genes, uint256[] calldata quantities) public
    payable returns(uint256[] memory token_ids) {
784     require(pauseStatus == false, "pause");
785     require(genes.length == quantities.length, 'params length error');
786
787     // token_ids
788     uint256 quantityTotal;
789     for (uint256 i = 0; i < quantities.length; ++i) {
790         quantityTotal += quantities[i];
791     }
792     token_ids = new uint256[](quantityTotal);
```

```
793
794
795     uint256 cumulatedPrice = 0; // Total value of all life
796     uint256 totalRentFeeCollected = 0;
797
798     // handler each gene
799     for (uint256 i = 0; i < genes.length; ++i) {
800         uint256 quantity = quantitys[i];
801         uint256[] [] calldata cellsPositions_ = genes[i];
802         require( cellsPositions_.length >= 2 && cellsPositions_.length <= 9, "can only use 2-9
803             cells!");
804
805
806         // data for cellGenes and livingCellTotals
807         uint256[] memory cellGenes = new uint256[](cellsPositions_.length);
808         uint32[] memory livingCellTotals = new uint32[](cellsPositions_.length);
809         for (uint256 j = 0; j < cellsPositions_.length; ++j) {
810             CellGene storage cellGene = _cellPool[cellsPositions_[j][0]];
811             require(cellGene.bornTime > 0, "cell not minted");
812             cellGenes[j] = cellGene.bitmap.getBucket(0);
813             livingCellTotals[j] = cellGene.livingCellTotal;
814         }
815
816
817         // mint 'quantity' life using single gene
818         for (uint256 index = 0; index < quantity; ++index) {
819             uint256 lifeBornPrice;
820
821
822             // got cells price
823             for (uint256 j = 0; j < cellsPositions_.length; ++j) {
824                 uint256 tokenId = cellsPositions_[j][0];
825                 CellGene storage cellGene = _cellPool[tokenId];
826                 uint256 absoluteTimeSinceStart = block.timestamp - cellGene.bornTime;
827                 uint256 cellRentPrice = getCellRentPrice( cellGene.rentedCount,
828                     absoluteTimeSinceStart);
829                 cellGene.rentedCount += 1;
830
831                 lifeBornPrice += cellRentPrice;
832                 cumulatedPrice += cellRentPrice;
833                 uint256 rentFee = (cellRentPrice * 5) / 100;
834                 if (tokenPaymentStatus) {
835                     _rentTokenFeeCollected[tokenId] += rentFee;
836                 } else {
837                     _rentFeeCollected[tokenId] += rentFee;
838                 }
839                 totalRentFeeCollected += rentFee;
840                 emit MintFeeReceived(tokenId, rentFee);
841             }
842
843             token_ids[index] = _life.createLife(msg.sender, lifeBornPrice, cellsPositions_,
```

```
        cellGenes, livingCellTotals);
844         lifeBornPrice = 0;
845     }
846 }
```

Listing 2.1: contracts/V2/CellGameV2.sol

Impact This error results in incorrect updating of `token_ids`, potentially causing data inconsistency and the loss of reference to earlier tokens.

Suggestion The index for updating `token_ids` should correctly run from 0 to `quantityTotal`, ensuring that each new token ID is unique and does not overwrite existing ones.

2.2 DeFi Security

2.2.1 Lack of refund in function `buyFood()`

Severity Low

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description The function `buyFood()` lacks the implementation to refund excess native tokens to the user.

```
139 function buyFood(
140     uint256[] memory tokenIds,
141     uint256 foodWorkTime
142 ) external payable {
143     require(pauseStatus == false, "pause");
144     uint256 foodPrice = _foodPrices[foodWorkTime];
145     if (foodPrice <= 0) {
146         revert FoodNotOnSale(foodWorkTime);
147     }
148     uint256 foodPriceSum = tokenIds.length * foodPrice;
149
150
151     // Payment
152     if (tokenPaymentStatus) {
153         require(msg.value == 0, "value must be 0");
154         IERC20(_foodPayToken).safeTransferFrom(address(msg.sender), address(this), foodPriceSum
155         );
156     } else {
157         if (msg.value < foodPriceSum) {
158             revert EtherNotEnough(foodPriceSum);
159         }
160     }
161
162     // workEndTime
163     uint256 currentTime = block.timestamp;
164     for (uint256 i = 0; i < tokenIds.length; ++i) {
165         if (publicBuyStatus == false) {
```

```

166         address owner = _ownerOf(tokenIds[i]);
167         if (msg.sender != owner) {
168             revert MustBeNftOwner(owner);
169         }
170     }
171
172
173     uint256 actualWorkingTime = foodWorkTime;
174     if (_lifePool[tokenIds[i]].workEndTime > currentTime) {
175         actualWorkingTime += (_lifePool[tokenIds[i]].workEndTime - currentTime);
176     }
177     require(actualWorkingTime <= maxWorkTime, "time limit exceeded");
178     _lifePool[tokenIds[i]].workEndTime = uint64(currentTime + actualWorkingTime);
179     emit FeedEvent(tokenIds[i], currentTime, foodWorkTime);
180 }
181 }

```

Listing 2.2: contracts/v2/LifeV2.sol

Impact Users will lose the overpaid native tokens.

Suggestion Add logic in the function `buyFood()` to refund native tokens.

2.2.2 Lack of `payToken` check in function `setLifeCreationConfig()`

Severity Medium

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description The function `setLifeCreationConfig()` can be invoked multiple times in the current contract to set the config. However, the `_totalRentTokenFee` for different `payToken` is recorded in a single state variable. After the `payToken` is updated, users will be unable to withdraw their rent fee or withdraw the wrong tokens.

```

102 function setLifeCreationConfig(
103     int256 soldBySwitch_,
104     int256 switchTime_,
105     int256 cellTargetRentPrice_,
106     int256 priceDecayPercent_,
107     int256 logisticLimit_,
108     int256 timeScale_,
109     int256 perTimeUnit_,
110     uint256 updateInterval_,
111     address payToken_
112 ) public onlyOwner {
113     int256 decayConstant = wadLn(1e18 - priceDecayPercent_);
114     require(decayConstant < 0, "NON_NEGATIVE_DECAY_CONSTANT");
115
116
117     _lifeCreationConfig.soldBySwitch = soldBySwitch_;
118     _lifeCreationConfig.switchTime = switchTime_;
119     _lifeCreationConfig.cellTargetRentPrice = cellTargetRentPrice_;
120     _lifeCreationConfig.decayConstant = decayConstant;

```

```

121     _lifeCreationConfig.logisticLimit = logisticLimit_;
122     _lifeCreationConfig.timeScale = timeScale_;
123     _lifeCreationConfig.perTimeUnit = perTimeUnit_;
124     _lifeCreationConfig.updateInterval = updateInterval_;
125     _lifeCreationConfig.payToken = payToken_;
126 }

```

Listing 2.3: contracts/V2/CellGameV2.sol

Impact Users will be unable to withdraw their rent fee or withdraw the wrong tokens.

Suggestion Ensure the `payToken` can be updated only once.

2.3 Additional Recommendation

2.3.1 Lack of balance check in function `setPayTokenAddress()`

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description The function `setPayTokenAddress()` doesn't ensure the pay token's balance is zero before it updates the token address. If there are old pay tokens left in the contract, the owner has to reset the pay token address to withdraw the tokens.

```

409 function setPayTokenAddress(address food_pay_token) public onlyOwner {
410     emit ChangePayTokenAddress(_foodPayToken, food_pay_token);
411     _foodPayToken = food_pay_token;
412 }

```

Listing 2.4: contracts/V2/LifeV2.sol

Suggestion Ensure the token balance is zero in the function `setPayTokenAddress()`.

2.3.2 Lack of following Checks Effects Interactions pattern

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description In the function `batchCreateLife()`, the external invocation `payable(msg.sender).call` occurs before the state variables `_totalRentTokenFee/_devTokenFeeCollected` are updated, which breaks the (Checks Effects Interactions) C-E-I pattern.

The same issue also exists in the function `createLife()`.

```

783 function batchCreateLife(uint256[][][] calldata genes, uint256[] calldata quantities) public
784     payable returns(uint256[] memory token_ids) {
785     require(pauseStatus == false, "pause");
786     require(genes.length == quantities.length, 'params length error');
787
788     // token_ids
789     uint256 quantityTotal;
790     for (uint256 i = 0; i < quantities.length; ++i) {
791         quantityTotal += quantities[i];

```

```
791     }
792     token_ids = new uint256[](quantityTotal);
793
794
795     uint256 cumulatedPrice = 0; // Total value of all life
796     uint256 totalRentFeeCollected = 0;
797
798
799     // handler each gene
800     for (uint256 i = 0; i < genes.length; ++i) {
801         uint256 quantity = quantities[i];
802         uint256[] [] calldata cellsPositions_ = genes[i];
803         require( cellsPositions_.length >= 2 && cellsPositions_.length <= 9, "can only use 2-9
            cells!");
804
805
806         // data for cellGenes and livingCellTotals
807         uint256[] memory cellGenes = new uint256[](cellsPositions_.length);
808         uint32[] memory livingCellTotals = new uint32[](cellsPositions_.length);
809         for (uint256 j = 0; j < cellsPositions_.length; ++j) {
810             CellGene storage cellGene = _cellPool[cellsPositions_[j][0]];
811             require(cellGene.bornTime > 0, "cell not minted");
812             cellGenes[j] = cellGene.bitmap.getBucket(0);
813             livingCellTotals[j] = cellGene.livingCellTotal;
814         }
815
816
817         // mint 'quantity' life using single gene
818         for (uint256 index = 0; index < quantity; ++index) {
819             uint256 lifeBornPrice;
820
821
822             // got cells price
823             for (uint256 j = 0; j < cellsPositions_.length; ++j) {
824                 uint256 tokenId = cellsPositions_[j][0];
825                 CellGene storage cellGene = _cellPool[tokenId];
826                 uint256 absoluteTimeSinceStart = block.timestamp - cellGene.bornTime;
827                 uint256 cellRentPrice = getCellRentPrice( cellGene.rentedCount,
                    absoluteTimeSinceStart);
828                 cellGene.rentedCount += 1;
829
830
831                 lifeBornPrice += cellRentPrice;
832                 cumulatedPrice += cellRentPrice;
833                 uint256 rentFee = (cellRentPrice * 5) / 100;
834                 if (tokenPaymentStatus) {
835                     _rentTokenFeeCollected[tokenId] += rentFee;
836                 } else {
837                     _rentFeeCollected[tokenId] += rentFee;
838                 }
839                 totalRentFeeCollected += rentFee;
840                 emit MintFeeReceived(tokenId, rentFee);
841             }
```

```

842
843         token_ids[index] = _life.createLife(msg.sender, lifeBornPrice, cellsPositions_,
            cellGenes, livingCellTotals);
844         lifeBornPrice = 0;
845     }
846 }
847
848
849 // collect user funds
850 if (tokenPaymentStatus) {
851     require(msg.value == 0, "value must be 0");
852     IERC20(_lifeCreationConfig.payToken).safeTransferFrom(address(msg.sender), address(this)
        ), cumulatedPrice);
853 } else {
854     require(msg.value >= cumulatedPrice, "Insufficient funds");
855     if (msg.value > cumulatedPrice) {
856         (bool sent, ) = payable(msg.sender).call{ value: msg.value - cumulatedPrice }("");
            // Returns false on failure
857         require(sent, "eth return failed");
858     }
859 }
860
861
862 // for devFee and poolFee
863 uint256 remainFee = cumulatedPrice - totalRentFeeCollected;
864 if (tokenPaymentStatus) {
865     _totalRentTokenFee += totalRentFeeCollected;
866     _devTokenFeeCollected += (remainFee * 14) / 19 ;
867     _poolTokenFeeCollected += remainFee - (remainFee * 14) / 19;
868 } else {
869     _totalRentFee += totalRentFeeCollected;
870     _devFeeCollected += (remainFee * 14) / 19 ;
871     _poolFeeCollected += remainFee - (remainFee * 14) / 19;
872 }
873 emit MintFeeForDevReceived((remainFee * 14) / 19);
874 emit MintFeeForPoolReceived(remainFee - (remainFee * 14) / 19);
875
876
877 // END
878 }

```

Listing 2.5: contracts/v2/CellGameV2.sol

```

186 function createLife(uint256[] [] memory cellsPositions_) public payable returns(uint256
    life_token_id) {
187     require(pauseStatus == false, "pause");
188     require(
189         cellsPositions_.length >= 2 && cellsPositions_.length <= 9,
190         "can only use 2-9 cells!"
191     );
192     uint256 cumulatedPrice = 0;
193     uint256[] memory cellGenes = new uint256[](cellsPositions_.length);
194     uint32[] memory livingCellTotals = new uint32[](cellsPositions_.length);

```

```
195
196
197     uint256 totalRentFeeCollected = 0;
198     for (uint256 i = 0; i < cellsPositions_.length; ++i) {
199         uint256 tokenId = cellsPositions_[i][0];
200         CellGene storage cellGene = _cellPool[tokenId];
201         require(cellGene.bornTime > 0, "cell not minted");
202         uint256 absoluteTimeSinceStart = block.timestamp -
203             cellGene.bornTime;
204         uint256 cellRentPrice = getCellRentPrice(
205             cellGene.rentedCount,
206             absoluteTimeSinceStart
207         );
208
209
210         cellGenes[i] = cellGene.bitmap.getBucket(0);
211         livingCellTotals[i] = cellGene.livingCellTotal;
212         cellGene.rentedCount += 1;
213
214
215         cumulatedPrice += cellRentPrice;
216
217
218         uint256 rentFee = (cellRentPrice * 5) / 100;
219
220
221         if (tokenPaymentStatus) {
222             _rentTokenFeeCollected[tokenId] += rentFee;
223         } else {
224             _rentFeeCollected[tokenId] += rentFee;
225         }
226         totalRentFeeCollected += rentFee;
227         emit MintFeeReceived(tokenId, rentFee);
228
229
230     }
231
232
233     uint256 remainFee = cumulatedPrice - totalRentFeeCollected;
234
235
236     if (tokenPaymentStatus) {
237         _totalRentTokenFee += totalRentFeeCollected;
238         _devTokenFeeCollected += (remainFee * 14) / 19 ;
239         _poolTokenFeeCollected += remainFee - (remainFee * 14) / 19;
240     } else {
241         _totalRentFee += totalRentFeeCollected;
242         _devFeeCollected += (remainFee * 14) / 19 ;
243         _poolFeeCollected += remainFee - (remainFee * 14) / 19;
244     }
245
246
247     emit MintFeeForDevReceived((remainFee * 14) / 19);
```

```
248     emit MintFeeForPoolReceived(remainFee - (remainFee * 14) / 19);
249
250
251     // Payment
252     if (tokenPaymentStatus) {
253         require(msg.value == 0, "value must be 0");
254         IERC20(_lifeCreationConfig.payToken).safeTransferFrom(address(msg.sender), address(this), cumulatedPrice);
255     } else {
256         require(msg.value >= cumulatedPrice, "Insufficient funds");
257         if (msg.value > cumulatedPrice) {
258             (bool sent, ) = payable(msg.sender).call{ value: msg.value - cumulatedPrice }("");
259             // Returns false on failure
260             require(sent, "eth return failed");
261         }
262     }
263
264     life_token_id = _life.createLife(
265         msg.sender,
266         cumulatedPrice,
267         cellsPositions_,
268         cellGenes,
269         livingCellTotals
270     );
271 }
```

Listing 2.6: contracts/v2/CellGameV2.sol

Suggestion Follow the Checks Effects Interactions pattern.

2.3.3 Lack of invoking function `_disableInitializers()`

Status Fixed in [Version 2](#)

Introduced by [Version 1](#)

Description Currently, there is no invocation of function `_disableInitializers()` in both the [LifeV2](#) and [CellGameV2](#) contracts, which means the implementation contracts can be initialized and can result in potential risks.

Suggestion Invoke the function `_disableInitializers()` in [LifeV2](#) and [CellGameV2](#) contracts' constructors.

2.4 Note

2.4.1 Potential centralization risks

Introduced by [Version 1](#)

Description In the Cellula Life Game V2 and CELL Token contracts, there are several functions (e.g. `mintCell()`, `setPauseStatus()`, `setCellAddress()`) with privileges to set key pa-

rameters. Modifying these parameters can significantly alter the functionality of the contracts or cause the loss of users.

