

BSCEX LAUNCHPOOLX

Smart Contract Security Audit

Prepared by: Halborn

Date of Engagement: March 14, 2021

Visit: Halborn.com

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DOCUMENT REVISION HISTORY

VERSION	MODIFICATION	DATE	AUTHOR
0.1	Document Creation	03/17/2021	Nishit Majithia
0.2	Document Edits	03/17/2021	Gabi Urrutia
1.0	Final Version	03/18/2021	Gabi Urrutia

CONTACTS

CONTACT	COMPANY	EMAIL
Rob Behnke	Halborn	Rob.Behnke@halborn.com
Steven Walbroehl	Halborn	Steven.Walbroehl@halborn.com
Nishit Majithia	Halborn	nishit.majithia@halborn.com

EXECUTIVE OVERVIEW

1.1 INTRODUCTION

BSCEX is a decentralized non-custodial cryptocurrency exchange that aims to facilitate the services that exchange-centered ecosystems provide. This project's primary goal is to bring Binance's off-chain services on-chain to the Binance Smart Chain (BSC). LaunchpoolX is the on-chain version of Binance exchange's Launchpool.

The security assessment was scoped to the smart contract BSCXNTS.sol. An audit of the security risk and implications regarding the changes introduced by the development team at BSCEX prior to its production release shortly following the assessments deadline.

Though the outcome of this security audit is satisfactory; due to time and resource constraints, only testing and verification of essential properties were performed to achieve objectives and deliverable set in the scope. It is important to remark the use of the best practices for secure smart contract development.

1.2 AUDIT SUMMARY

The team at Halborn was provided a week timeframe for the engagement and assigned one full time security engineers to audit the security of the smart contract. The security engineer is blockchain and smart contract security subject matter experts, with experience in advanced penetration testing, smart contract hacking, and have a deep knowledge in multiple blockchain protocols.

The purpose of this audit to achieve the following:

- Ensure that smart contract functions are intended.
- Identify potential security issues with the smart contracts.

In summary, Halborn identified 5 security risks, and recommends performing further testing to validate extended safety and correctness in context to the whole set of contracts. External threats, such as economic attacks, oracle attacks, and inter-contract functions and calls should be validated

for expected logic and state.

1.3 TEST APPROACH & METHODOLOGY

Halborn performed a combination of manual and automated security testing to balance efficiency, timeliness, practicality, and accuracy in regard to the scope of the smart contract audit.

While manual testing is recommended to uncover flaws in logic, process, and implementation; automated testing techniques help enhance coverage of smart contracts and can quickly identify items that do not follow security best practices. The following phases and associated tools were used throughout the term of the audit:

- Research into architecture and purpose
- Smart Contract manual code read and walkthrough
- Graphing out functionality and contract logic/connectivity/functions (solgraph)
- Manual Assessment of use and safety for the critical solidity variables and functions in scope to identify any arithmetic related vulnerability classes.
- Scanning of solidity files for vulnerabilities, security hotspots, or bugs. (MythX)
- Static Analysis of security for scoped contract, and imported functions. (Slither)
- Testnet deployment (Truffle, Ganache)
- Smart Contract Fuzzing and dynamic state exploitation (Echidna) Symbolic
 Execution / EVM bytecode security assessment (limited time)

RISK METHODOLOGY:

Vulnerabilities or issues observed by Halborn are ranked based on the risk assessment methodology by measuring the **LIKELIHOOD** of a security incident, and the **IMPACT** should an incident occur. This framework works for communicating the characteristics and impacts of technology vulnerabilities. It's quantitative model ensures repeatable and accurate measurement while enabling users to see the underlying vulnerability characteristics

that was used to generate the Risk scores. For every vulnerability, a risk level will be calculated on a scale of 5 to 1 with 5 being the highest likelihood or impact.

RISK SCALE - LIKELIHOOD

- 5 Almost certain an incident will occur.
- 4 High probability of an incident occurring.
- 3 Potential of a security incident in the long term.
- 2 Low probability of an incident occurring.
- 1 Very unlikely issue will cause an incident.

RISK SCALE - IMPACT

- 5 May cause devastating and unrecoverable impact or loss.
- 4 May cause a significant level of impact or loss.
- 3 May cause a partial impact or loss to many.
- 2 May cause temporary impact or loss.
- 1 May cause minimal or un-noticeable impact.

The risk level is then calculated using a sum of these two values, creating a value of 10 to 1 with 10 being the highest level of security risk.

CRITICAL	HIGH	MEDIUM	LOW	INFORMATIONAL
----------	------	--------	-----	---------------

- 10 CRITICAL
- 9 8 HIGH
- **7 6** MEDIUM
- **5 4** LOW
- 3 1 VERY LOW AND INFORMATIONAL

1.4 SCOPE

IN-SCOPE:

The security assessment was scoped to the smart contract:

- BSCXNTS.sol

Specific commit of contract: commit 1c4a8df4ba1c0051c0a705dda006844756afe6ea

OUT-OF-SCOPE:

Other smart contracts in the repository, external libraries and economics attacks.

IMPACT

2. ASSESSMENT SUMMARY & FINDINGS OVERVIEW

CRITICAL	HIGH	MEDIUM	LOW	INFORMATIONAL
0	0	0	4	1

LIKELIHOOD

(HAL-01) (HAL-02)	(HAL-03)		
		(HAL-04)	
(HAL-05)			

SECURITY ANALYSIS	RISK LEVEL	REMEDIATION DATE
FLOATING PRAGMA	Low	
PRAGMA VERSION DEPRECATED	Low	
FOR LOOP OVER DYNAMIC ARRAY	Low	
IGNORE RETURN VALUES	Low	
POSSIBLE MISUSE OF PUBLIC FUNCTIONS	Informational	
STATIC ANALYSIS	-	-
AUTOMATED SECURITY SCAN	-	-

FINDINGS & TECH DETAILS

3.1 (HAL-01) FLOATING PRAGMA - LOW

Description:

All Smart Contracts use the floating pragma ^0.6.0. Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an updated compiler version that might introduce bugs or discovered vulnerabilities in the newest versions that affect the contract system negatively.

Code Location:

```
BSCXNTS.sol: [Line #2]
```

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.6.0;
3
4 import './interfaces/IERC20.sol';
5 import './libraries/SafeERC20.sol';
```

Risk Level:

Likelihood - 1 Impact - 3

Recommendations:

Consider lock the pragma version known bugs for the compiler version. When possible, do not use floating pragma in the final live deployment. Pragma can also be locked fixing the compiler version in the configuration file when you deploy contracts with truffle or hardhat frameworks.

3.2 (HAL-02) PRAGMA VERSION DEPRECATED - LOW

Description:

The current version in use for the contracts is pragma 0.6.0. While this version is still functional, and most security issues safely implemented by mitigating contracts with other utility contracts such as SafeMath.sol and ReentrancyGuard.sol, the risk to the long-term sustainability and integrity of the solidity code increases.

Code Location:

```
BSCXNTS.sol: [Line #2]
```

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.6.0;
3
4 import './interfaces/IERC20.sol';
5 import './libraries/SafeERC20.sol';
```

Risk Level:

```
Likelihood - 1
Impact - 3
```

Recommendations:

At the time of this audit, the current version is already at 0.8.2. When possible, use the most updated and tested pragma versions to take advantage of new features that provide checks and accounting, as well as prevent insecure use of code. (0.6.12)

3.3 (HAL-03) FOR LOOP OVER DYNAMIC ARRAY - LOW

Description:

When smart contracts are deployed or functions inside them are called, the execution of these actions always requires a certain amount of gas, based on how much computation is needed to complete them. Programming patterns that are harmless in centralized applications can lead to Denial of Service conditions in smart contracts when the cost of executing a function exceeds the block gas limit. Modifying an array of unknown size, that increases in size over time, can lead to such a Denial of Service condition.

A situation in which the block gas limit can be an issue is in sending funds to an array of addresses. Even without any malicious intent, this can easily go wrong.

Code Location:

BSCXNTS.sol: [Line #252]

Dynamic array _halvingAtBlock is in control of caller and not bounded by any value. So in this case, dynamic array length can e anything. This array can go up to very large uint256 value, which is very large to exhaust the gas value.

Risk Level:

Likelihood - 2 Impact - 3

Recommendations:

Actions that require looping across the entire data structure should be avoided. If you absolutely must loop over an array of unknown size, then you should plan for it to potentially take multiple blocks, and therefore require multiple transactions. In this case, if you want loop over _halvingAtBlock then the size of _halvingAtBlock should be restricted.

3.4 (HAL-04) IGNORE RETURN VALUES - LOW

Description:

The return value of an external call is not stored in a local or state variable. In contract BSCXNTS.sol, there are few instances where external methods are being called and return value(bool) are being ignored.

Code Location:

BSCXNTS.sol: Line #224, Line #230, Line #233, Line #352, Line #366, Line #381, Line #514

```
uint256 forFarmer;
(forBurn, forDev, forFarmer) = getPoolReward(_pid);

if (forBurn > 0) {
    pool.rewardToken.burn(forBurn);
}

if (forDev > 0) {
    uint256 lockAmount = forDev.mul(pool.percentLockReward).div(100);
    if (teamAddresses[_pid] != address(0)) {
        pool.rewardToken.transfer(teamAddresses[_pid], forDev.sub(lockAmount));
        farmLock(teamAddresses[_pid], lockAmount, _pid);
} else {
        pool.rewardToken.transfer(devaddr, forDev.sub(lockAmount));
        farmLock(devaddr, lockAmount, _pid);
}

33

34

35

36

}

pool.accRewardPerShare = pool.accRewardPerShare.add(forFarmer.mul(1e12).div(lpSupply));
pool.accRewardPlock = block number.
```

Risk Level:

Likelihood - 3 Impact - 2

Recommendation:

Add return value check to avoid unexpected crash of the contract. Return value check will help in handling the exceptions better way.

3.5 (HAL-05) POSSIBLE MISUSE OF PUBLIC FUNCTIONS - INFORMATIONAL

Description:

In smart contracts Ownable.sol and BSCXNTS.sol, there are many methods like owner(), renounceOwnership(), transferOwnership(), deposit(), totalLockInPool(), setPercentLPLevelRefer(), setAmountLPStakeLevelRefer (), setReferralLPToken(), setStatus(), setTeamAddressPool(), dev(), lastUnlockBlock(), unlock(), set(), add(), withdraw(), getNewRewardPerBlock(), claimReward(), emergencyWithdraw(), lockOf() and totalLock() are marked as public but they are never directly called by another function in the same contract or in any of its descendants,

so better to mark these methods as external. In addition, external functions are cheaper than public functions in gas costs.

Code Location:

Ownable.sol: Line #22, Line #41, Line #50

```
function owner() public view returns (address) {
    return _owner;
 * @dev Throws if called by any account other than the owner.
modifier onlyOwner() {
    require(_owner == _msgSender(), "Ownable: caller is not the owner");
 * @dev Leaves the contract without owner. It will not be possible to call
   onlyOwner` functions anymore. Can only be called by the current owner.
 * NOTE: Renouncing ownership will leave the contract without an owner,
 * thereby removing any functionality that is only available to the owner.
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
 * @dev Transfers ownership of the contract to a new account (`newOwner`).
 * Can only be called by the current owner.
function transferOwnership(address newOwner) public virtual onlyOwner {
   require(newOwner != address(0), "Ownable: new owner is the zero address");
    emit OwnershipTransferred( owner, newOwner);
```

BSCXNTS.sol: Line #105, Line #156, Line #161, Line #167, Line #173, Line #179, Line #186, Line #307, Line #387, Line #410, Line #429, Line #439, Line #444, Line #455, Line #459, Line #463, Line #467, Line #504

```
function setStatus(bool_status) public onlyOwner {
    status = _status;
    emit Status(msg.sender, status);
}

function setReferralLPToken(IERC20 _referralLPToken) public onlyOwner {
    referralLPToken = _referralLPToken;
    emit ReferralLPToken(msg.sender, referralLPToken);

// Set team address receive reward

function setTeamAddressPool(wint256 _pid, address _teamAddress) public {
    require(msg.sender == teamAddresses[_pid], "dev: wut2");
    teamAddresses[_pid] = _teamAddresses[_pid]);

// teamAddresses[_pid] = _teamAddresses[_pid]);

// function setAmountLPLv1 = _stakeAmountLPLv1, uint256 _stakeAmountLPLv2) public onlyOwner {
    stakeAmountLPLv1 = _stakeAmountLPLv2;
    emit AmountLPStakeLevelRefer(msg.sender, stakeAmountLPLv1, stakeAmountLPLv2);

// function setPercentLPLevelRefer(msg.sender, stakeAmountLPLv1, stakeAmountLPLv2);

// function setPercentLPLevelRefer(mint256 _percentForReferLv1, uint256 _percentForReferLv2) public onlyOwner {
    percentForReferLv1 = _percentForReferLv1, percentForReferLv2);
    emit PercentLPLevelRefer(msg.sender, percentForReferLv1, percentForReferLv2);

// emit PercentLPLevelR
```

Risk Level:

Likelihood - 1

Impact - 1

Recommendations:

If the function is not intended to call internally nor by their descendants as well then it is better to mark all these functions as external instead of public to save some gas.

3.6 STATIC ANALYSIS REPORT

Description:

Halborn used automated testing techniques to enhance coverage of certain areas of the scoped contract. Among the tools used was Slither, a Solidity static analysis framework. After Halborn verified all the contracts in the repository and was able to compile them correctly into their abi and binary formats. This tool can statically verify mathematical relationships between Solidity variables to detect invalid or inconsistent usage of the

contracts' APIs across the entire code-base.

Results:

```
INFO:Detectors:

SSCRIS [contracts/SSCRIS, sol89-539] contract sets array length with a user-controlled value:
- halvinghtBlocks[pid],pun(halvinghtBlock) (contracts/SSCRIS,sol8149)

Reference: https://github.com/crytt/plither/miki/Petector-bounnerlatfostarray-y-length-assignment
```

Issue already mentioned above regarding looping over unbounded data structure.

```
INFO:Detectors:
BSCXNTS.getPoolReward(uint256) (contracts/BSCXNTS.sol#270-290) performs a multiplication on the result of a division:
    -amount = multiplier.mul(pool.rewardPerBlock).mul(pool.allocPoint).div(totalAllocPoints[pool.rewardToken]) (contracts/BSCXNTS.sol#274)
    -forBurn = amount.mul(pool.percentForBurn).div(100) (contracts/BSCXNTS.sol#286)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply
```

It is false positive since multiplication is being done to percentage value.

```
### REPORT OF STATE O
```

Add nonReentrant modifier to close all possibilities of Re-entrancy in future as well.

```
INFO.Detectors.
SECURIS.solateRool(uint256) (contracts/SECXNIS.sola285-239) ignores return value by pool.rewardToken.burn(forBurn) (contracts/SECXNIS.sola224)
SECURIS.supdateRool(uint256) (contracts/SECXNIS.sola285-239) ignores return value by pool.rewardToken.transfer(dexaddressee_jid], forDev.sub(lockAdount)) (contracts/SECXNIS.sola283-239) ignores return value by pool.rewardToken.transfer(dexaddressee_jid], forDev.sub(lockAdount)) (contracts/SECXNIS.sola283-239) ignores return value by pool.rewardToken.transfer(dexaddressee_jid], contracts/SECXNIS.sola283-239) ignores return value by pool.rewardToken.transfer(dexaddressee_jid], contracts/SECXNIS.sola283-239) ignores return value by pool.rewardToken.transfer(dexaddressee_jid), contracts/SECXNIS.sola283-239, ignores.transfer(dexaddressee_jid), contracts/SECXNIS.sola283-239, ignores.t
```

Issue already mentioned above regarding ignoring return values.

```
IMFODEReters:

SEXUITS.constructor(address_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uint256_uin
```

Valid issue, Kindly add zero-address validation at Line #90 and Line #441 for _devaddr since it is consuming address values directly from user.

```
| INFOIDEMENTARY | IN EXCOUNTS__transferReferral(uint256, uint256, uint256,
```

Add nonReentrant modifier to close all possibilities of Re-entrancy in future as well.

Use same pragma throughout the contracts and libraries. Also it is better to remove floating pragma.

```
### SECONTS and ERROR, IRECO, unit250, unit250,
```

Issue already mentioned above regarding function could have marked as external.

3.7 AUTOMATED SECURITY SCAN

Description:

Halborn used automated security scanners to assist with detection of well-known security issues, and to identify low-hanging fruit on the targets for this engagement. Among the tools used was MythX, a security analysis service for Ethereum smart contracts. MythX performed a scan on the testers machine and sent the compiled results to the analyzers to locate any vulnerabilities. In addition, security detections are only in scope.

Results:

BSCXNTS.sol

	Report for BSCXNTS.sol https://dashboard.mythx.io/#/console/analyses/8a875871-0f51-403b-9905-17de73c4a456				
Line	SWC Title	Severity	Short Description		
2	(SWC-103) Floating Pragma	Low	A floating pragma is set.		
105	(SWC-000) Unknown	Medium	Function could be marked as external.		
126	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.		
146	(SWC-128) DoS With Block Gas Limit	Medium	Implicit loop over unbounded data structure.		
156	(SWC-000) Unknown	Medium	Function could be marked as external.		
161	(SWC-000) Unknown	Medium	Function could be marked as external.		
167	(SWC-000) Unknown	Medium	Function could be marked as external.		
173	(SWC-000) Unknown	Medium	Function could be marked as external.		
179	(SWC-000) Unknown	Medium	Function could be marked as external.		
186	(SWC-000) Unknown	Medium	Function could be marked as external.		
199	(SWC-128) DoS With Block Gas Limit	Medium	Loop over unbounded data structure.		
207	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.		
214	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.		
238	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.		

273	(SWC-128) DoS With Block Gas Limit	Medium	Implicit loop over unbounded data structure.
273	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
298	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
307	(SWC-000) Unknown	Medium	Function could be marked as external.
334	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
387	(SWC-000) Unknown	Medium	Function could be marked as external.
396	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
410	(SWC-000) Unknown	Medium	Function could be marked as external.
429	(SWC-000) Unknown	Medium	Function could be marked as external.
439	(SWC-000) Unknown	Medium	Function could be marked as external.
444	(SWC-000) Unknown	Medium	Function could be marked as external.
447	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
Postr 447	(SWC-128) DoS With Block Gas Limit	Low	Implicit loop over unbounded data structure.
455	(SWC-000) Unknown	Medium	Function could be marked as external.
459	(SWC-000) Unknown	Medium	Function could be marked as external.
463	(SWC-000) Unknown	Medium	Function could be marked as external.
467	(SWC-000) Unknown	Medium	Function could be marked as external.
491	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
494	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
498	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.
504	(SWC-000) Unknown	Medium	Function could be marked as external.
516	(SWC-120) Weak Sources of Randomness from Chain Attributes	Low	Potential use of "block.number" as source of randonmness.

Ownable.sol

Report for Ownable.sol

https://dashboard.mythx.io/#/console/analyses/8a875871-0f51-403b-9905-17de73c4a456

Line	SWC Title	Severity	Short Description
22	(SWC-000) Unknown	Medium	Function could be marked as external.
41	(SWC-000) Unknown	Medium	Function could be marked as external.
50	(SWC-000) Unknown	Medium	Function could be marked as external.

THANK YOU FOR CHOOSING

