



Xarpent

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Xarpent	XPT	BSC

Addresses

Contract address	0x970A68775186509749561F863a0E228ca8c43D0c
Contract deployer address	0xD3f5E23BC65FEa6a34bd06E4cb3E07cd60004fF1

Project Website

<https://xarpent.finance/>

Codebase

<https://bscscan.com/address/0x970A68775186509749561F863a0E228ca8c43D0c#code>

SUMMARY

Trade assets across the supported blockchains with one click. Partner projects can include our free tool on their website to make it simple for their community to exchange tokens between chains. The project has a cross-chain aggregator, a free widget tool, monthly integration of new chains, always online support bot, Reps, staking rounds, partnerships, and collaborations.

Contract Summary

Documentation Quality

Xarpent provides a document with a good standard and stable solidity basecode.

- The technical description is provided clearly and structured.

Code Quality

The Overall quality of the basecode is GOOD with only 3 low-risk issues

- Standart solidity basecode and rules are already followed with Xarpent Project but there is still has potential-randomness (SWC-120).

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 194, 216, 241, 270, 271, 400, 435, 468, 478, 489, 517, 526, 534, 545, 552, 556, 576, 577, 579, 585, 586, 587, 594, 599, 604, 653, 690, and 1001.
- SWC-103 | A floating pragma is set on lines 7.
- SWC-110 | Out of bounds array access on lines 615 and 616.
- SWC-120 | Potential use of "block.number" as a source of randomness on lines 517 and 660.

CONCLUSION

We have audited the Xarpent Coin, which has been released to discover issues and identify potential security vulnerabilities in LaunchVerseProject. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with three low-risk issues on the contract project.

The most common issue in writing code on contracts that do not pose a big risk is that writing on contracts is close to the standard of writing contracts in general. Some of the common issues that were found were asserted violations, a floating pragma set Potential use of "block.number" as a source of randomness. We recommend not using any of those environment variables as sources of randomness and being aware that using these variables introduces a certain level of trust in miners.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Caller	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS

Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique Id	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	ISSUE FOUND
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS

SMART CONTRACT ANALYSIS

Started	Sat Jan 14 2023 05:57:30 GMT+0000 (Coordinated Universal Time)
Finished	Sun Jan 15 2023 06:57:30 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Xarpent.Sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 194

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
193   require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
194   _approve(sender, _msgSender(), currentAllowance - amount);
195
196   return true;
197 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 216

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
215  {  
216  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);  
217  return true;  
218  }  
219
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 241

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
240   require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
241   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
242
243   return true;
244   }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 270

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
269   require(senderBalance >= amount, "BEP20: transfer amount exceeds balance");
270   _balances[sender] = senderBalance - amount;
271   _balances[recipient] += amount;
272
273   emit Transfer(sender, recipient, amount);
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 271

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
270  _balances[sender] = senderBalance - amount;  
271  _balances[recipient] += amount;  
272  
273  emit Transfer(sender, recipient, amount);  
274  }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 400

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
399
400  uint256 public tokenLiquidityThreshold = 5e4 * 10**18;
401
402  uint256 public genesis_block;
403  uint256 private deadline = 3;
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 435

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
434 constructor() BEP20("Xarpent", "XPT") {
435   _tokengeneration(msg.sender, 5e7 * 10**decimals());
436   exemptFee[msg.sender] = true;
437
438   IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 468

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
467     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
468     _approve(sender, _msgSender(), currentAllowance - amount);
469
470     return true;
471 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 478

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
477 {  
478   _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);  
479   return true;  
480 }  
481
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 489

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
488   require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
489   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
490
491   return true;
492   }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 517

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
516 !exemptFee[recipient] &&  
517 block.number < genesis_block + deadline;  
518  
519 //set fee to zero if fees in contract are handled or exempted  
520 if (_interlock || exemptFee[sender] || exemptFee[recipient])
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 526

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
525 feeswap =  
526 sellTaxes.liquidity +  
527 sellTaxes.marketing +  
528 sellTaxes.ops +  
529 sellTaxes.dev;
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 534

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
533 feeswap =  
534 taxes.liquidity +  
535 taxes.marketing +  
536 taxes.ops +  
537 taxes.dev;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 545

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
544
545     fee = (amount * feesum) / 100;
546
547     //send fees if threshold has been reached
548     //don't do this on buys, breaks swap
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 552

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
551 //rest to recipient
552 super._transfer(sender, recipient, amount - fee);
553 if (fee > 0) {
554 //send the fee to the contract
555 if (feeswap > 0) {
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 556

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
555     if (feeswap > 0) {  
556         uint256 feeAmount = (amount * feeswap) / 100;  
557         super._transfer(sender, address(this), feeAmount);  
558     }  
559
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 576

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
575 // Split the contract balance into halves
576 uint256 denominator = feeswap * 2;
577 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
578 denominator;
579 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 577

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
576 uint256 denominator = feeswap * 2;  
577 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /  
578 denominator;  
579 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;  
580
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 579

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
578     denominator;  
579     uint256 toSwap = contractBalance - tokensToAddLiquidityWith;  
580  
581     uint256 initialBalance = address(this).balance;  
582
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 585

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
584
585 uint256 deltaBalance = address(this).balance - initialBalance;
586 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
587 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
588
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 586

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
585 uint256 deltaBalance = address(this).balance - initialBalance;
586 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
587 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
588
589 if (ethToAddLiquidityWith > 0) {
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 587

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
586 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
587 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
588
589 if (ethToAddLiquidityWith > 0) {
590 // Add liquidity to pancake
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 594

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
593
594     uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;
595     if (marketingAmt > 0) {
596         payable(marketingWallet).sendValue(marketingAmt);
597     }
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 599

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
598
599 uint256 opsAmt = unitBalance * 2 * swapTaxes.ops;
600 if (opsAmt > 0) {
601     payable(opsWallet).sendValue(opsAmt);
602 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 604

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
603
604  uint256 devAmt = unitBalance * 2 * swapTaxes.dev;
605  if (devAmt > 0) {
606    payable(devWallet).sendValue(devAmt);
607  }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 653

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
652   require(new_amount <= 5e5, "Swap threshold amount should be lower or equal to 1% of
tokens");
653   tokenLiquidityThreshold = new_amount * 10**decimals();
654   }
655
656   function EnableTrading() external onlyOwner {
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 690

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- Xarpent.Sol

Locations

```
689 function bulkExemptFee(address[] memory accounts, bool state) external onlyOwner {  
690     for (uint256 i = 0; i < accounts.length; i++) {  
691         exemptFee[accounts[i]] = state;  
692     }  
693 }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is ""^0.8.17"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- Xarpent.Sol

Locations

```
6
7  pragma solidity ^0.8.17;
8
9  abstract contract Context {
10     function _msgSender() internal view virtual returns (address) {
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 615

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Xarpent.Sol

Locations

```
614 address[] memory path = new address[](2);
615 path[0] = address(this);
616 path[1] = router.WETH();
617
618 _approve(address(this), address(router), tokenAmount);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 616

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Xarpent.Sol

Locations

```
615 path[0] = address(this);
616 path[1] = router.WETH();
617
618 _approve(address(this), address(router), tokenAmount);
619
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 691

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Xarpent.Sol

Locations

```
690   for (uint256 i = 0; i < accounts.length; i++) {  
691     exemptFee[accounts[i]] = state;  
692   }  
693 }  
694
```


SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 517

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- Xarpent.Sol

Locations

```
516     !exemptFee[recipient] &&
517     block.number < genesis_block + deadline;
518
519     //set fee to zero if fees in contract are handled or exempted
520     if (_interlock || exemptFee[sender] || exemptFee[recipient])
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 660

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- Xarpent.Sol

Locations

```
659 providingLiquidity = true;
660 genesis_block = block.number;
661 }
662
663 function updateddeadline(uint256 _deadline) external onlyOwner {
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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