



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

ImpactXP



Deployer address

0x9c4a1fcbd55f717427bba06fae1603963558e7c4



Client contacts:

ImpactXP team



Blockchain

Ethereum



Project website:

<https://impactxp.io>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by ImpactXP to perform an audit of smart contracts:

<https://etherscan.io/address/0xb12494c8824fc069757f47d177e666c571cd49ae#code>

The purpose of the audit was to achieve the following:

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

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

Token contract details for 01.12.2021

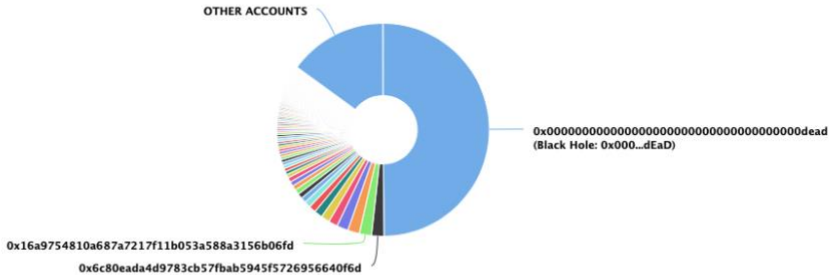
Contract name	ImpactXP
Contract address	0xb12494C8824fc069757F47d177E666c571Cd49aE
Total supply	1,000,000,000,000,000,000
Token ticker	IMPACTXP
Decimals	9
Token holders	3,351
Transactions count	4,742
Top 100 holders dominance	85.01%
Contract deployer address	0x9c4a1fcbd55f717427bba06fae1603963558e7c4
Contract's current owner address	0x9c4a1fcbd55f717427bba06fae1603963558e7c4

ImpactXP Token Distribution

The top 100 holders collectively own 85.01% (850,078,092,843,537,000.00 Tokens) of ImpactXP | Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 3,351

ImpactXP Top 100 Token Holders

Source: Etherscan.io



(A total of 850,078,092,843,537,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)

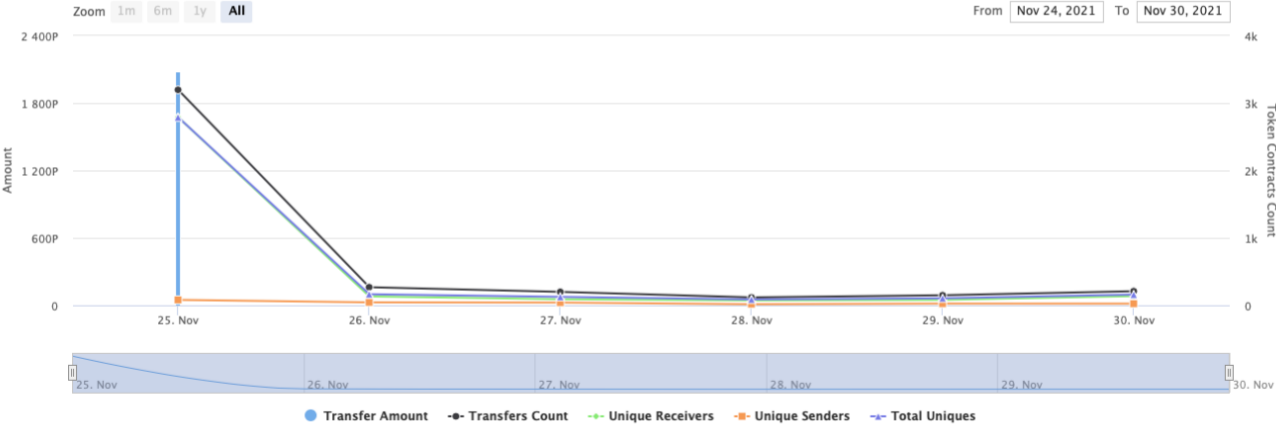
ImpactXP Contract interaction details

Time Series: Token Contract Overview


Thu 25, Nov 2021 - Tue 30, Nov 2021

Token Contract 0xb12494c8824fc069757f47d177e666c571cd49ae (ImpactXP)

Source: Etherscan.io



ImpactXP Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Black Hole: 0x000...dEaD	498,524,867,943,907,000.710606457	49.8525%
2	0x6c80eada4d9783cb57bab5945f5726956640f6d	18,798,937,184,991,000.800290312	1.8799%
3	0x16a9754810a687a7217f11b053a588a3156b06fd	18,748,279,169,025,000.924965511	1.8748%
4	0xfcd83c038efafdb58a71ceab85705f4a8bcd66ec	17,811,796,856,920,900.447089098	1.7812%
5	0x0cad6780d97a594eed4a8fe050574cc48aac637a	17,320,428,094,490,400.15202494	1.7320%
6	0x5dd79c16cbbf3b3dda14bece655bc7797ce0dd82	13,878,665,980,109,000.210638475	1.3879%
7	0x178fed1ac848f5d444aa56024052deb23f9db44f	13,200,333,962,087,600.284029341	1.3200%
8	 Uniswap V2: IMPACTX	12,369,440,027,871,900.067388544	1.2369%
9	0x77d1b6defcb9926d675a8ac430a326a8ca3a0e1c	10,691,959,929,327,200.01158771	1.0692%
10	0x3d208c827de562811de26fdb141a6867c516aa0	9,637,132,027,845,270.761836762	0.9637%



Contract functions details

- + Context
 - [Int] _msgSender
- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Lib] SafeMath
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
- + [Int] IUniswapV2Factory
 - [Ext] createPair #
- + [Int] IUniswapV2Router02
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
 - [Ext] factory
 - [Ext] WETH
 - [Ext] addLiquidityETH (\$)
- + ImpactXP (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Ext] setCooldownEnabled #
 - modifiers: onlyOwner
 - [Prv] tokenFromReflection
 - [Prv] _approve #
 - [Prv] _transfer #
 - [Prv] swapTokensForEth #

- modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] openTrading #
 - modifiers: onlyOwner
- [Pub] setBots #
 - modifiers: onlyOwner
- [Pub] delBot #
 - modifiers: onlyOwner
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _takeTeam #
- [Prv] _reflectFee #
- [Ext] <Fallback> (\$)
- [Ext] manualswap #
- [Ext] manualsend #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can enable cooldown (user to user trading with time offset).

```
function setCooldownEnabled(bool onoff) external onlyOwner() {
    cooldownEnabled = onoff;
}
```

- Owner can open swap trading.

```
function openTrading() external onlyOwner() {
    require(!tradingOpen,"trading is already open");
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
    uniswapV2Router = _uniswapV2Router;
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this), _uniswapV2Router.WETH());
    uniswapV2Router.addLiquidityETH{value: address(this).balance}(address(this),balanceOf(address(this)),0,0,owner(),block.timestamp);
    swapEnabled = true;
    cooldownEnabled = true;
    _maxTxAmount = 1000000000000000 * 10**9;
    tradingOpen = true;
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
}
```

- Owner can add and remove bots (no transferring between this addresses).

```
function setBots(address[] memory bots_) public onlyOwner {
    for (uint i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}
function delBot(address notbot) public onlyOwner {
    bots[notbot] = false;
}
```

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

<https://www.team.finance/view-coin/0xb12494C8824fc069757F47d177E666c571Cd49aE?name=ImpactXP&symbol=IMPACTXP>

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.