SOL Verified.

Scan Report for

ASENIX

Targeted source code link:
https://github.com/ASENIXInitiative/ASENIX-token-Smart-contract/blob/main/ENIX.sol

Issued on:
07th April 2023

Solverified automated scan is trying to be precise as possible, but the results may differ. We recommend a manual audit for detailed vulnerability checks. Always DYOR, and keep your contracts safe. This result is not a statement/ advice or a 'no objection' to buy or invest in any project.

Disclaimer

Reviewing & accepting a project audit report can be considered as a 'key of trust' and is viewed as an initial trust recommending factor of a project or a code, but this document does not guarantee that any individual or team will not remove all the liquidity, sell tokens or engage in any other fraud activities. Also, we could not find a method to stop or prevent private sale holders from selling their tokens.

We recommend you to decide by consider reading the full document, project's/ team's social media posts, social presence, researching the team, company and the contract code of this project in order to draw your own conclusions and to reach your own risk assessment.

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The contents, informations and reasons should not be the considered as a financial, investment or legal advice.

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Function: addLiquidity Line: 1604 High Impact
Unprotected function to send Ethers
Functions for sending Ethers should be protected.

Function: addLiquidity Line: 1609 High Impact
Unprotected function to send Ethers
uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp)
Functions for sending Ethers should be protected.

Function: _transfer Line: 1523 High Impact
Reentrancy issue
Functions from external contracts should be called last.

Function: _transfer Line: 1548 High Impact
Reentrancy issue
swapAndLiquify(contractTokenBalance)
Functions from external contracts should be called last.

Function: swapTokensForEth Line: 1595 High Impact
Reentrancy issue
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
Functions from external contracts should be called last.

Function: _transfer Line: 1560 High Impact
Reentrancy issue
_tokenTransfer(from,to,amount,takeFee)
Functions from external contracts should be called last.

Function: _takeLiquidity Line: 1450 High Impact
Reentrancy issue
_rOwned[address(this)] = _rOwned[address(this)].add(rLiquidity)
Functions from external contracts should be called last.

Function: _takeCharityFee Line: 1459 High Impact
Reentrancy issue
_rOwned[_charityAddress] = _rOwned[_charityAddress].add(rCharity)
Functions from external contracts should be called last.

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Function: _transferStandard Line: 1657 High Impact
Reentrancy issue
_rOwned[sender] = _rOwned[sender].sub(rAmount)
Functions from external contracts should be called last.

Function: _transferToExcluded Line: 1679 High Impact
Reentrancy issue
_rOwned[sender] = _rOwned[sender].sub(rAmount)
Functions from external contracts should be called last.

Function: _transferStandard Line: 1658 High Impact
Reentrancy issue
_rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
Functions from external contracts should be called last.

Function: _transferFromExcluded Line: 1703 High Impact
Reentrancy issue
_rOwned[sender] = _rOwned[sender].sub(rAmount)
Functions from external contracts should be called last.

Function: _transferBothExcluded Line: 1297 High Impact
Reentrancy issue
_rOwned[sender] = _rOwned[sender].sub(rAmount)
Functions from external contracts should be called last.

Function: _transferFromExcluded Line: 1704 High Impact
Reentrancy issue
_rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
Functions from external contracts should be called last.

Function: _transferToExcluded Line: 1681 High Impact
Reentrancy issue
_rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
Functions from external contracts should be called last.

Function: _transferBothExcluded Line: 1299 High Impact
Reentrancy issue
_rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
Functions from external contracts should be called last.

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Function: _reflectFee Line: 1342 High Impact
Reentrancy issue
_rTotal = _rTotal.sub(rFee)
Functions from external contracts should be called last.

Function: _takeLiquidity Line: 1452 High Impact
Reentrancy issue
_tOwned[address(this)] = _tOwned[address(this)].add(tLiquidity)
Functions from external contracts should be called last.

Function: _takeCharityFee Line: 1461 High Impact
Reentrancy issue
_tOwned[_charityAddress] = _tOwned[_charityAddress].add(tCharity)
Functions from external contracts should be called last.

Function: _transferFromExcluded Line: 1702 High Impact
Reentrancy issue
_tOwned[sender] = _tOwned[sender].sub(tAmount)
Functions from external contracts should be called last.

Function: _transferBothExcluded Line: 1296 High Impact
Reentrancy issue
_tOwned[sender] = _tOwned[sender].sub(tAmount)
Functions from external contracts should be called last.

Function: _transferToExcluded Line: 1680 High Impact
Reentrancy issue
_tOwned[recipient] = _tOwned[recipient].add(tTransferAmount)
Functions from external contracts should be called last.

Function: _transferBothExcluded Line: 1298 High Impact
Reentrancy issue
_tOwned[recipient] = _tOwned[recipient].add(tTransferAmount)
Functions from external contracts should be called last.

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Function: constructor Line: 1044 Medium Impact
Unnecessary logic
Unnecessary / duplicate logic can be removed.

Function: constructor Line: 1056 Medium Impact
Unnecessary logic
require(bool,string)(taxFeeBps_ >= 0,Invalid tax fee)
Unnecessary / duplicate logic can be removed.

Function: constructor Line: 1057 Medium Impact
Unnecessary logic
require(bool,string)(liquidityFeeBps_ >= 0,Invalid liquidity fee)
Unnecessary / duplicate logic can be removed.

Function: constructor Line: 1058 Medium Impact
Unnecessary logic
require(bool,string)(charityFeeBps_ >= 0,Invalid charity fee)
Unnecessary / duplicate logic can be removed.

Function: _approve Line: 1512 Low Impact
Different variables with the same name
owner
Variables should use unique names.

Function: owner Line: 161 Low Impact
Different variables with the same name
Variables should use unique names.

Function: allowance Line: 1147 Low Impact
Different variables with the same name
owner
Variables should use unique names.

Function: setTaxFeePercent Line: 1314 Low Impact
Events are not emitted
Functions should emit events.

Function: setTaxFeePercent Line: 1315 Low Impact
Events are not emitted
_taxFee = taxFeeBps
Functions should emit events.

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Function: setLiquidityFeePercent Line: 1322 Low Impact
Events are not emitted
Functions should emit events.

Function: setLiquidityFeePercent Line: 1326 Low Impact
Events are not emitted
_liquidityFee = liquidityFeeBps
Functions should emit events.

Function: constructor Line: 1053 Low Impact
Zero address validation is missed
serviceFeeReceiver_
Address validation should be added.

Function: constructor Line: 1114 Low Impact
Zero address validation is missed
address(serviceFeeReceiver_).transfer(serviceFee_)
Address validation should be added.

Function: restoreAllFee Line: 1504 Low Impact
Reentrancy vulnerability
_charityFee = _previousCharityFee
State variables should be updated before calling any external function.

Function: removeAllFee Line: 1498 Low Impact
Reentrancy vulnerability
_charityFee = 0
State variables should be updated before calling any external function.

Function: restoreAllFee Line: 1503 Low Impact
Reentrancy vulnerability
_liquidityFee = _previousLiquidityFee
State variables should be updated before calling any external function.

Function: removeAllFee Line: 1497 Low Impact
Reentrancy vulnerability
_liquidityFee = 0
State variables should be updated before calling any external function.

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Function: removeAllFee Line: 1494 Low Impact
Reentrancy vulnerability
_previousCharityFee = _charityFee
State variables should be updated before calling any external function.

Function: removeAllFee Line: 1493 Low Impact
Reentrancy vulnerability
_previousLiquidityFee = _liquidityFee
State variables should be updated before calling any external function.

Function: removeAllFee Line: 1492 Low Impact
Reentrancy vulnerability
_previousTaxFee = _taxFee
State variables should be updated before calling any external function.

Function: _reflectFee Line: 1343 Low Impact
Reentrancy vulnerability
_tFeeTotal = _tFeeTotal.add(tFee)
State variables should be updated before calling any external function.

Function: restoreAllFee Line: 1502 Low Impact
Reentrancy vulnerability
_taxFee = _previousTaxFee
State variables should be updated before calling any external function.

Function: removeAllFee Line: 1496 Low Impact
Reentrancy vulnerability
_taxFee = 0
State variables should be updated before calling any external function.

Function: swapAndLiquify Line: 1563 Low Impact
Reentrancy vulnerability
State variables should be updated before calling any external function.

Function: swapAndLiquify Line: 1575 Low Impact
Reentrancy vulnerability
swapTokensForEth(half)
State variables should be updated before calling any external function.

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Function: swapAndLiquify Line: 1581 Low Impact
Reentrancy vulnerability
addLiquidity(otherHalf,newBalance)
State variables should be updated before calling any external function.

Function: _approve Line: 1519 Low Impact
Reentrancy vulnerability
_allowances[owner][spender] = amount
State variables should be updated before calling any external function.

Function: transferFrom Line: 1165 Low Impact
Reentrancy vulnerability
State variables should be updated before calling any external function.

Function: transferFrom Line: 1170 Low Impact
Reentrancy vulnerability
_transfer(sender,recipient,amount)
State variables should be updated before calling any external function.

Function: transferFrom Line: 1171 Low Impact
Reentrancy vulnerability
_approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance))
State variables should be updated before calling any external function.

Function: _approve Line: 1520 Low Impact
Reentrancy vulnerability
Approval(owner,spender,amount)
Events should be emitted before an external function is called.

Function: swapAndLiquify Line: 1583 Low Impact
Reentrancy vulnerability
SwapAndLiquify(half,newBalance,otherHalf)
Events should be emitted before an external function is called.

Function: _takeCharityFee Line: 1464 Low Impact
Reentrancy vulnerability
Transfer(_msgSender(),_charityAddress,tCharity)
Events should be emitted before an external function is called.

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Function: _transferStandard Line: 1662 Low Impact
Reentrancy vulnerability
Transfer(sender,recipient,tTransferAmount)
Events should be emitted before an external function is called.

Function: _transferFromExcluded Line: 1708 Low Impact
Reentrancy vulnerability
Transfer(sender,recipient,tTransferAmount)
Events should be emitted before an external function is called.

Function: _transferToExcluded Line: 1685 Low Impact
Reentrancy vulnerability
Transfer(sender,recipient,tTransferAmount)
Events should be emitted before an external function is called.

Function: _transferBothExcluded Line: 1303 Low Impact
Reentrancy vulnerability
Transfer(sender,recipient,tTransferAmount)
Events should be emitted before an external function is called.

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