

Audit Report Paw Patrol

October 2022

Address e7a6479a1060b0f5e564367a9096a4e490b00b712bbb1bde510e70156eb0a18e

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Contract Review

Contract Name	AaTokenContract
Compiler Version	v0.8.11+commit.d7f03943
Testing Deploy	https://testnet.bscscan.com/token/0x8938093970559B9 E4B60bF7D54C679772F2b12D9
Symbol	PPT
Decimals	9
Total Supply	3,000,000,000,000
Domain	https://pawpatrol.io

Source Files

Filename	SHA256
contract.sol	e7a6479a1060b0f5e564367a9096a4e490b00b712bbb1b de510e70156eb0a18e

Audit Updates

Initial Audit	3rd October 2022
Corrected	



Contract Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	BT	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Contract Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	STC	Succeeded Transfer Check	Unresolved
•	L01	Public Function could be Declared External	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L13	Divide before Multiply Operation	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



STC - Succeeded Transfer Check

Criticality	minor / informative
Location	contract.sol#L551
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
if (ratios.marketing > 0) {
    (success,) = _taxWallets.marketing.call{value: marketingBalance, gas: 35000}("");
}
if (ratios.charity > 0) {
    (success,) = _taxWallets.charity.call{value: charityBalance, gas: 35000}("");
}
```

Recommendation

The contract should check if the result of the transfer methods is successful.



L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L298,379,573,600
Status	Unresolved

Description

Public functions that are never called by the contract should be declared external to save gas.

transfer getCirculatingSupply enableTrading isExcludedFromReward

Recommendation

Use the external attribute for functions never called from the contract.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L175,113,115,116,33,150,388,117,141,162,114,151,149,148,135
Status	Unresolved

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_hasLiqBeenAdded
startingSupply
_symbol
_decimals
WETH
maxTransferTaxes
_antiSnipe
_tTotal
_ratios
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions.



L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L437,428
Status	Unresolved

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
piSwapPercent = priceImpactSwapPercent
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
```

Recommendation

Emit an event for critical parameter changes.



L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L698
Status	Unresolved

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

check

Recommendation

The variables should be declared before any usage of them.



L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contract.sol#L690
Status	Unresolved

Description

Performing divisions before multiplications may cause lose of prediction.

feeAmount = (tAmount * currentFee) / masterTaxDivisor

Recommendation

The multiplications should be prior to the divisions.



L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L698,697,691
Status	Unresolved

Description

The are variables that are defined in the local scope and are not initialized.

check checked values

Recommendation

All the local scoped variables should be initialized.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
iractory v 2		External		
	getPair			-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	√	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	√	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External	,	-



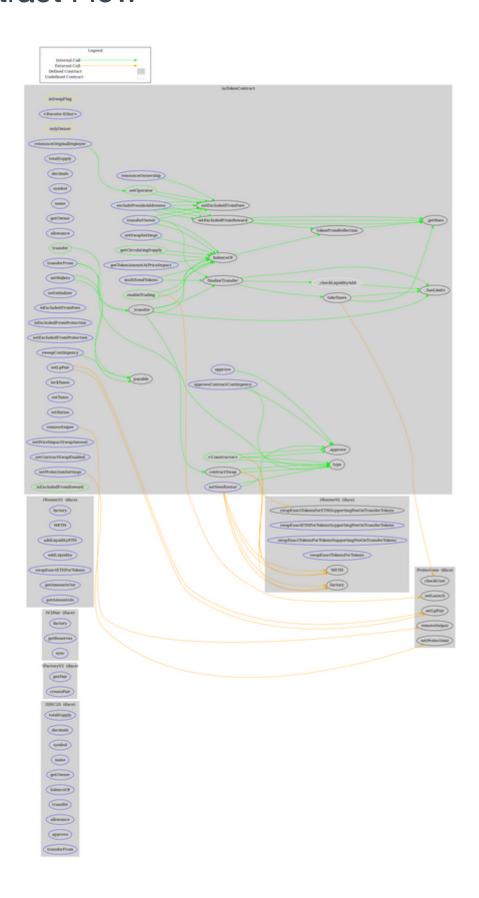
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	1	-
Protections	Interface			
	checkUser	External	1	-
	setLaunch	External	√	-
	setLpPair	External	✓	-
	setProtections	External	1	-
	removeSniper	External	✓	-
AaTokenContr act	Implementation	IERC20		
	<constructor></constructor>	Public	Payable	-
	<receive ether=""></receive>	External	Payable	-
	transferOwner	External	1	onlyOwner
	renounceOwnership	External	1	onlyOwner
	setOperator	Public	1	-
	renounceOriginalDeployer	External	1	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
	transfer	Public	✓	-
	approve	External	1	-
	_approve	Internal	1	



approveContractContingency	External	1	onlyOwner
transferFrom	External	✓	-
setNewRouter	External	✓	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializer	External	1	onlyOwner
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromFees	Public	✓	onlyOwner
setExcludedFromProtection	External	1	onlyOwner
getCirculatingSupply	Public		-
removeSniper	External	1	onlyOwner
setProtectionSettings	External	1	onlyOwner
lockTaxes	External	1	onlyOwner
setTaxes	External	1	onlyOwner
setRatios	External	1	onlyOwner
setWallets	External	1	onlyOwner
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	1	onlyOwner
setPriceImpactSwapAmount	External	1	onlyOwner
setContractSwapEnabled	External	1	onlyOwner
excludePresaleAddresses	External	✓	onlyOwner
_hasLimits	Internal		
_transfer	Internal	1	
contractSwap	Internal	1	inSwapFlag
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	✓	onlyOwner
sweepContingency	External	1	onlyOwner
multiSendTokens	External	1	onlyOwner
isExcludedFromReward	Public		-
setExcludedFromReward	Public	✓	onlyOwner
tokenFromReflection	Public		-
finalizeTransfer	Internal	✓	
takeTaxes	Internal	1	
_getRate	Internal		



Contract Flow





Domain Info

Domain Name	pawpatrol.io
Registry Domain ID	dd64c62a9916472fb8d050cc4836c61d-DONUTS
Creation Date	2022-09-30T08:30:53Z
Updated Date	2022-09-30T22:08:34Z
Registry Expiry Date	2023-09-30T08:30:53Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89 90
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created 3 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.



Summary

Paw Patrol Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 10% fees.



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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io