



Cyberscope

Audit Report

# Nascar Full Speed

January 2024

Network    BSC

Address    0x35c4a5738573bb3641e8599c38e16b719895b33d

Audited by    © cyberscope

# Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

# Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	EPC	Existing Pair Creation	Unresolved
●	IDI	Immutable Declaration Improvement	Unresolved
●	PLPI	Potential Liquidity Provision Inadequacy	Unresolved
●	PMRM	Potential Mocked Router Manipulation	Unresolved
●	PVC	Price Volatility Concern	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L09	Dead Code Elimination	Unresolved
●	L14	Uninitialized Variables in Local Scope	Unresolved
●	L15	Local Scope Variable Shadowing	Unresolved
●	L16	Validate Variable Setters	Unresolved
●	L17	Usage of Solidity Assembly	Unresolved
●	L18	Multiple Pragma Directives	Unresolved
●	L19	Stable Compiler Version	Unresolved

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## Review

Contract Name	StandardToken
Compiler Version	v0.8.18+commit.87f61d96
Optimization	200 runs
Explorer	<a href="https://bscscan.com/address/0x35c4a5738573bb3641e8599c38e16b719895b33d">https://bscscan.com/address/0x35c4a5738573bb3641e8599c38e16b719895b33d</a>
Address	0x35c4a5738573bb3641e8599c38e16b719895b33d
Network	BSC
Symbol	NASCAR
Decimals	18
Total Supply	100,000,000,000
Badge Eligibility	Yes

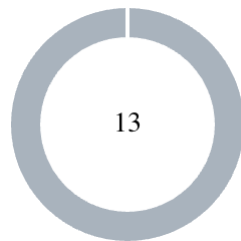
## Audit Updates

Initial Audit	27 Jan 2024
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## Source Files

Filename	SHA256
StandardToken.sol	bcb6a61b40f76202374d9251e07c05f3e2021514d237b939bd8be872dd21aa7a

## Findings Breakdown



● Critical	0
● Medium	0
● Minor / Informative	13

Severity		Unresolved	Acknowledged	Resolved	Other
● Critical	Critical	0	0	0	0
● Medium	Medium	0	0	0	0
● Minor / Informative	Minor / Informative	13	0	0	0

## EPC - Existing Pair Creation

Criticality	Minor / Informative
Location	StandardToken.sol#L1357,1378
Status	Unresolved

### Description

The contract contains functions that do not handle the scenario where a pair already exists prior to its execution. If a pair for the given tokens has already been established, the `createPair` function will revert and not proceed with the creation of a new pair. As a result, if a pair has been previously set up before the function is invoked, the contract will encounter an error when trying to call the `createPair` function. This will prevent the successful execution, essentially leading the function to revert.

```
function updateUniswapV2Pair(address _baseTokenForPair) external onlyOwner {
    baseTokenForPair = _baseTokenForPair;
    mainPair = IUniswapV2Factory(mainRouter.factory()).createPair(
        address(this),
        baseTokenForPair
    );
    if(baseTokenForPair != mainRouter.WETH()){
        IERC20(baseTokenForPair).approve(address(mainRouter), MAX);
    }
    _setAutomatedMarketMakerPair(mainPair, true);
}
...
address _mainPair = IUniswapV2Factory(mainRouter.factory()).createPair(
    address(this),
    baseTokenForPair
);
```

### Recommendation

To mitigate the risks associated with attempting to create an already existing pair, it is recommended to implement a check to determine whether the pair already exists before proceeding to create a new pair. This can be achieved by utilizing the `getPair` function of the



Factory contract to retrieve the address of the pair contract for the specified tokens. If the address returned by the `getPair` function is the zero address, it indicates that the pair does not exist, and the contract can proceed with the `createPair` function. Conversely, if a non-zero address is returned, it indicates that the pair already exists, and the `createPair` function will revert.

## IDI - Immutable Declaration Improvement

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L1287
<b>Status</b>	Unresolved

### Description

The contract declares state variables that their value is initialized once in the constructor and are not modified afterwards. The `immutable` is a special declaration for this kind of state variables that saves gas when it is defined.

```
_decimals
```

### Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.

## PLPI - Potential Liquidity Provision Inadequacy

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L1617
<b>Status</b>	Unresolved

### Description

The contract operates under the assumption that liquidity is consistently provided to the pair between the contract's token and the native currency. However, there is a possibility that liquidity is provided to a different pair. This inadequacy in liquidity provision in the main pair could expose the contract to risks. Specifically, during eligible transactions, where the contract attempts to swap tokens with the main pair, a failure may occur if liquidity has been added to a pair other than the primary one. Consequently, transactions triggering the swap functionality will result in a revert.

```
function swapTokensForBaseToken(uint256 tokenAmount) private {
    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = baseTokenForPair;
    if (path[1] == mainRouter.WETH()) {

mainRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
    tokenAmount,
    0, // accept any amount of BaseToken
    path,
    address(this),
    block.timestamp
    );
    }else{

uniswapV2Caller.swapExactTokensForTokensSupportingFeeOnTransferTo
kens(
    address(mainRouter),
    tokenAmount,
    0, // accept any amount of BaseToken
    path,
    block.timestamp
    );
    }
}
```

## Recommendation

The team is advised to implement a runtime mechanism to check if the pair has adequate liquidity provisions. This feature allows the contract to omit token swaps if the pair does not have adequate liquidity provisions, significantly minimizing the risk of potential failures.

Furthermore, the team could ensure the contract has the capability to switch its active pair in case liquidity is added to another pair.

Additionally, the contract could be designed to tolerate potential reverts from the swap functionality, especially when it is a part of the main transfer flow. This can be achieved by executing the contract's token swaps in a non-reversible manner, thereby ensuring a more resilient and predictable operation.

## PMRM - Potential Mocked Router Manipulation

Criticality	Minor / Informative
Location	StandardToken.sol#L1363
Status	Unresolved

### Description

The contract includes a method that allows the owner to modify the router address and create a new pair. While this feature provides flexibility, it introduces a security threat. The owner could set the router address to any contract that implements the router's interface, potentially containing malicious code. In the event of a transaction triggering the swap functionality with such a malicious contract as the router, the transaction may be manipulated.

```
function updateUniswapV2Router(address newAddress) public
onlyOwner {
    require(
        newAddress != address(mainRouter),
        "The router already has that address"
    );
    emit UpdateUniswapV2Router(newAddress,
address(mainRouter));
    mainRouter = IUniswapV2Router02(newAddress);
    _approve(address(this), address(mainRouter), MAX);
    if (baseTokenForPair != mainRouter.WETH()) {
        IERC20(baseTokenForPair).approve(address(mainRouter), MAX);
    }
    address _mainPair =
    IUniswapV2Factory(mainRouter.factory()).createPair(
        address(this),
        baseTokenForPair
    );
    mainPair = _mainPair;
    _setAutomatedMarketMakerPair(mainPair, true);
}
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions.

#### Temporary Solutions:

These measurements do not decrease the severity of the finding

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-signature wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.

#### Permanent Solution:

- Renouncing the ownership, which will eliminate the threats but it is non-reversible.

## PVC - Price Volatility Concern

Criticality	Minor / Informative
Location	StandardToken.sol#L1461,1503
Status	Unresolved

### Description

The contract accumulates tokens from the taxes to swap them for ETH. The variable `swapTokensAtAmount` sets a threshold where the contract will trigger the swap functionality. If the variable is set to a big number, then the contract will swap a huge amount of tokens for ETH.

It is important to note that the price of the token representing it, can be highly volatile. This means that the value of a price volatility swap involving Ether could fluctuate significantly at the triggered point, potentially leading to significant price volatility for the parties involved.

```
uint256 contractTokenBalance = balanceOf(address(this));
bool overMinimumTokenBalance = contractTokenBalance >=
    minAmountToTakeFee;

function updateMinAmountToTakeFee(uint256 _minAmountToTakeFee)
    external
    onlyOwner
{
    require(_minAmountToTakeFee > 0, "minAmountToTakeFee > 0");
    emit UpdateMinAmountToTakeFee(_minAmountToTakeFee,
minAmountToTakeFee);
    minAmountToTakeFee = _minAmountToTakeFee;
}
```

### Recommendation

The contract could ensure that it will not sell more than a reasonable amount of tokens in a single transaction. A suggested implementation could check that the maximum amount should be less than a fixed percentage of the exchange reserves. Hence, the contract will guarantee that it cannot accumulate a huge amount of tokens in order to sell them.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L849,1085,1087,1118,1190,1351,1390,1391,1408,1414,1424,1425,1443,1444,1455
<b>Status</b>	Unresolved

### Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
3. Use uppercase for constant variables and enums (e.g., MAX\_VALUE, ERROR\_CODE).
4. Use indentation to improve readability and structure.
5. Use spaces between operators and after commas.
6. Use comments to explain the purpose and behavior of the code.
7. Keep lines short (around 120 characters) to improve readability.



```
function WETH() external pure returns (address);
function DOMAIN_SEPARATOR() external view returns (bytes32);
function PERMIT_TYPEHASH() external pure returns (bytes32);
function MINIMUM_LIQUIDITY() external pure returns (uint256);
function INIT_CODE_PAIR_HASH() external view returns (bytes32);
address _baseTokenForPair
uint16 _sellLiquidityFee
uint16 _buyLiquidityFee
uint256 _maxWallet
uint256 _maxTransactionAmount
uint16 _sellMarketingFee
uint16 _buyMarketingFee
address _marketingWallet
bool _isMarketingFeeBaseToken

...
```

## Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

<https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention>.

## L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	StandardToken.sol#L58,83,112,145,155,172,182,599,773,789,804,813
Status	Unresolved

### Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function sendValue(address payable recipient, uint256 amount)
internal {
    require(address(this).balance >= amount, "Address:
insufficient balance");

    (bool success, ) = recipient.call{value: amount}("");
    require(success, "Address: unable to send value,
recipient may have reverted");
}

function functionCall(address target, bytes memory data)
internal returns (bytes memory) {
    return functionCall(target, data, "Address: low-level
call failed");
}

...
```

### Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.

## L14 - Uninitialized Variables in Local Scope

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L1517,1518
<b>Status</b>	Unresolved

### Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

```
uint256 _liquidityFee  
uint256 _marketingFee
```

### Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.

## L15 - Local Scope Variable Shadowing

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L1276,1277,1279
<b>Status</b>	Unresolved

### Description

Local scope variable shadowing occurs when a local variable with the same name as a variable in an outer scope is declared within a function or code block. When this happens, the local variable "shadows" the outer variable, meaning that it takes precedence over the outer variable within the scope in which it is declared.

```
string memory _name
string memory _symbol
uint256 _totalSupply
```

### Recommendation

It's important to be aware of shadowing when working with local variables, as it can lead to confusion and unintended consequences if not used correctly. It's generally a good idea to choose unique names for local variables to avoid shadowing outer variables and causing confusion.

## L16 - Validate Variable Setters

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L1352
<b>Status</b>	Unresolved

### Description

The contract performs operations on variables that have been configured on user-supplied input. These variables are missing of proper check for the case where a value is zero. This can lead to problems when the contract is executed, as certain actions may not be properly handled when the value is zero.

```
baseTokenForPair = _baseTokenForPair
```

### Recommendation

By adding the proper check, the contract will not allow the variables to be configured with zero value. This will ensure that the contract can handle all possible input values and avoid unexpected behavior or errors. Hence, it can help to prevent the contract from being exploited or operating unexpectedly.

## L17 - Usage of Solidity Assembly

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L211
<b>Status</b>	Unresolved

### Description

Using assembly can be useful for optimizing code, but it can also be error-prone. It's important to carefully test and debug assembly code to ensure that it is correct and does not contain any errors.

Some common types of errors that can occur when using assembly in Solidity include Syntax, Type, Out-of-bounds, Stack, and Revert.

```
assembly {  
    let returndata_size := mload(returndata)  
    revert(add(32, returndata), returndata_size)  
}
```

### Recommendation

It is recommended to use assembly sparingly and only when necessary, as it can be difficult to read and understand compared to Solidity code.

## L18 - Multiple Pragma Directives

<b>Criticality</b>	Minor / Informative
<b>Location</b>	StandardToken.sol#L2,222,844
<b>Status</b>	Unresolved

### Description

If the contract includes multiple conflicting pragma directives, it may produce unexpected errors. To avoid this, it's important to include the correct pragma directive at the top of the contract and to ensure that it is the only pragma directive included in the contract.

```
pragma solidity 0.8.18;  
pragma solidity ^0.8.0;  
pragma solidity ^0.8.1;
```

### Recommendation

It is important to include only one pragma directive at the top of the contract and to ensure that it accurately reflects the version of Solidity that the contract is written in.

By including all required compiler options and flags in a single pragma directive, the potential conflicts could be avoided and ensure that the contract can be compiled correctly.



## L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	StandardToken.sol#L2,222
Status	Unresolved

### Description

The `^` symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.8.1;  
pragma solidity ^0.8.0;
```

### Recommendation

The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.

## Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Address</b>	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	verifyCallResult	Internal		
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-

	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-

	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
<b>Ownable</b>	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
<b>SafeERC20</b>	Library			
	safeTransfer	Internal	✓	
	safeTransferFrom	Internal	✓	
	safeApprove	Internal	✓	
	safeIncreaseAllowance	Internal	✓	
	safeDecreaseAllowance	Internal	✓	

	_callOptionalReturn	Private	✓	
<b>IUniswapV2Router01</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-

<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IUniswapV2Pair</b>	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-

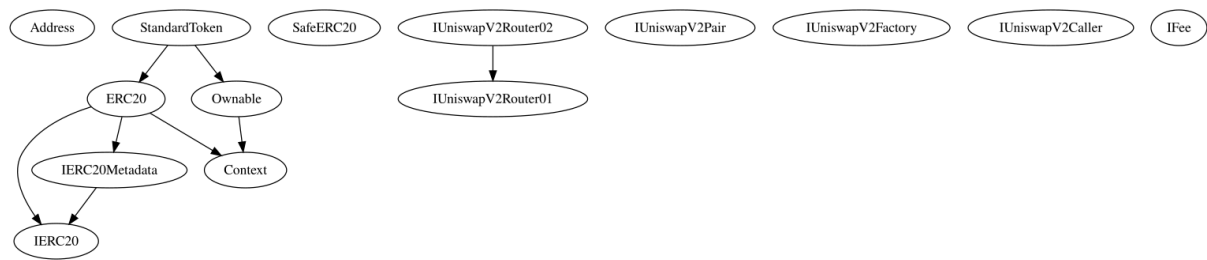
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-

	INIT_CODE_PAIR_HASH	External		-
<b>IUniswapV2Call</b>	Interface			
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
<b>IFee</b>	Interface			
	payFee	External	Payable	-
<b>StandardToken</b>	Implementation	ERC20, Ownable		
		Public	Payable	ERC20
	decimals	Public		-
	updateUniswapV2Pair	External	✓	onlyOwner
	updateUniswapV2Router	Public	✓	onlyOwner
	updateLiquidityFee	External	✓	onlyOwner
	updateMaxWallet	External	✓	onlyOwner
	updateMaxTransactionAmount	External	✓	onlyOwner
	updateMarketingFee	External	✓	onlyOwner
	updateMarketingWallet	External	✓	onlyOwner
	updateMinAmountToTakeFee	External	✓	onlyOwner
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	excludeFromFee	External	✓	onlyOwner
	excludeFromMaxTransactionAmount	External	✓	onlyOwner

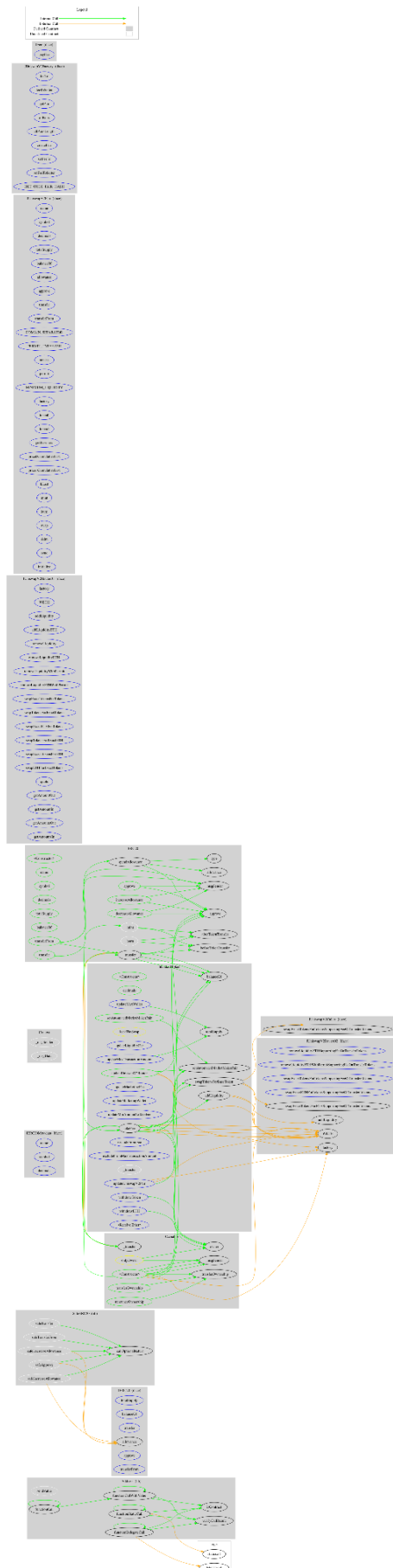


	_transfer	Internal	✓	
	takeFee	Private	✓	lockTheSwap
	swapTokensForBaseToken	Private	✓	
	addLiquidity	Private	✓	
	withdrawETH	External	✓	onlyOwner
	withdrawToken	External	✓	onlyOwner
		External	Payable	-

# Inheritance Graph



# Flow Graph



## Summary

Nascar Full Speed contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. Nascar Full Speed 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 20% fees.

## Disclaimer

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# About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



**The Cyberscope team**

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