



# Audit Report

## **SilverLine**

January 2022

Type	BEP20
Network	BSC
Address	0xdF71457BAA6Fd61f4CB8933e21D16Cc196B9DC73
Audited by	© coinscope

# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Contract Review</b>	<b>2</b>
<b>Audit Updates</b>	<b>2</b>
<b>Contract Analysis</b>	<b>3</b>
<b>Contract Diagnostics</b>	<b>4</b>
<b>L01 - Public Function could be Declared External</b>	<b>5</b>
<b>Description</b>	<b>5</b>
<b>Recommendation</b>	<b>5</b>
<b>L04 - Conformance to Solidity Naming Conventions</b>	<b>6</b>
<b>Description</b>	<b>6</b>
<b>Recommendation</b>	<b>6</b>
<b>L09 - Dead Code Elimination</b>	<b>7</b>
<b>Description</b>	<b>7</b>
<b>Recommendation</b>	<b>7</b>
<b>Contract Functions</b>	<b>8</b>
<b>Contract Flow</b>	<b>10</b>
<b>Domain Info</b>	<b>11</b>
<b>Summary</b>	<b>12</b>
<b>Disclaimer</b>	<b>13</b>
<b>About Coinscope</b>	<b>14</b>

## Contract Review

<b>Contract Name</b>	SilverLine
<b>Compiler Version</b>	v0.8.4+commit.c7e474f2
<b>Optimization</b>	200 runs
<b>Licence</b>	Unlicense
<b>Explorer</b>	<a href="https://bscscan.com/token/0xdF71457BAA6Fd61f4CB8933e21D16Cc196B9DC73">https://bscscan.com/token/0xdF71457BAA6Fd61f4CB8933e21D16Cc196B9DC73</a>
<b>Symbol</b>	SLN
<b>Decimals</b>	12
<b>Total Supply</b>	1,000,000,000,000
<b>Source</b>	contract.sol
<b>Domain</b>	

## Audit Updates

<b>Initial Audit</b>	8th January 2022
<b>Corrected</b>	

# Contract Analysis

● Critical   
 ● Medium   
 ● Minor   
 ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L222,L218,L115 and 8 more

### Description

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

```
setTransferLimit  
Burn  
transferFrom  
...
```

### Recommendation

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

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L218,L98

### 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.

```
Burn  
_owner
```

### Recommendation

Follow the Solidity naming convention.

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L10

### Description

Functions that are not used in the contract, and make the code's size bigger.

`_msgData`

### Recommendation

Remove unused functions.



# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IBEP20Metadata</b>	Interface	IBEP20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>BEP20</b>	Implementation	Context, IBEP20, IBEP20Meta data		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-

	approve	Public	✓	-
	transferOwnership	Public	✓	onlyOwner
	transferFrom	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	Burn	Public	✓	onlyOwner
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
<b>SilverLine</b>	Implementation	BEP20		
	<Constructor>	Public	✓	BEP20

# Contract Flow



## Domain Info

<b>Domain Name</b>	silverlineswap.org
<b>Registry Domain ID</b>	D402200000017828572-LROR
<b>Creation Date</b>	2021-09-15T08:11:44Z
<b>Updated Date</b>	2021-11-15T03:57:14Z
<b>Registry Expiry Date</b>	2022-09-15T08:11:44Z
<b>Registrar WHOIS Server</b>	whois.publicdomainregistry.com
<b>Registrar URL</b>	<a href="http://www.publicdomainregistry.com">http://www.publicdomainregistry.com</a>
<b>Registrar</b>	PDR Ltd. d/b/a PublicDomainRegistry.com
<b>Registrar IANA ID</b>	303

The domain was created 4 months before the creation of the audit. It will expire in 8 months.

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

## Summary

The silverline token is a utility token, aiming to be utilised in the SilverLineSwap ecosystem. The project has a friendly and growing community. The smart contract analysis reported no compiler errors or critical issues. There is no malicious function that can interrupt the users' transactions.

# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Coinscope team disclaims any liability for the resulting losses.

## About Coinscope

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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>