Cyberscope

Audit Report

DKeeperEscrow

December 2022

Github https://github.com/Deeplink-Network/Staking

Commit ab56a7e7cde209bdad1c70a24ce8ce257c04413d

Audited by © cyberscope

Table of Contents

Contract Review

Contract Name	DKeeperEscrow
Testing Deploy	https://testnet.bscscan.com/token/0x61dcfa6a6710be3f72f5ab9ce794ff47f68fddfe

Audit Updates

Initial Audit	15 Dec 2022

Source Files

Filename	SHA256
@openzeppelin/contracts/access/Ownable.sol	9353af89436556f7ba8abb3f37a6677249aa4df6024fbfaa94f79ab2f44f3231
@openzeppelin/contracts/token/ERC20/IERC20.sol	94f23e4af51a18c2269b355b8c7cf4db8003d075c9c541019eb8dcf4122864d5
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a
contracts/DKeeperEscrow.sol	1cafc9f56a6f1046cd4960632126e6e9d20974dc9909e3afbe112279ba4857f1
contracts/Interface/IDeepToken.sol	4271d346dd077ad51065f40716dc98a65c87eda77e3a647d7269b0a3ddc30b7b

Introduction

The DKeeperEscrow contract implements a utility contract. It is responsible for minting DeepToken.

Roles

The contract has one role Dkeeper. The Dkeeper has the authority to mint DeepTokens.

Contract Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
●	L04	Conformance to Solidity Naming Conventions	unresolved

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contracts/DKeeperEscrow.sol#L25,25
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.

```
_amount
_account
```

Recommendation

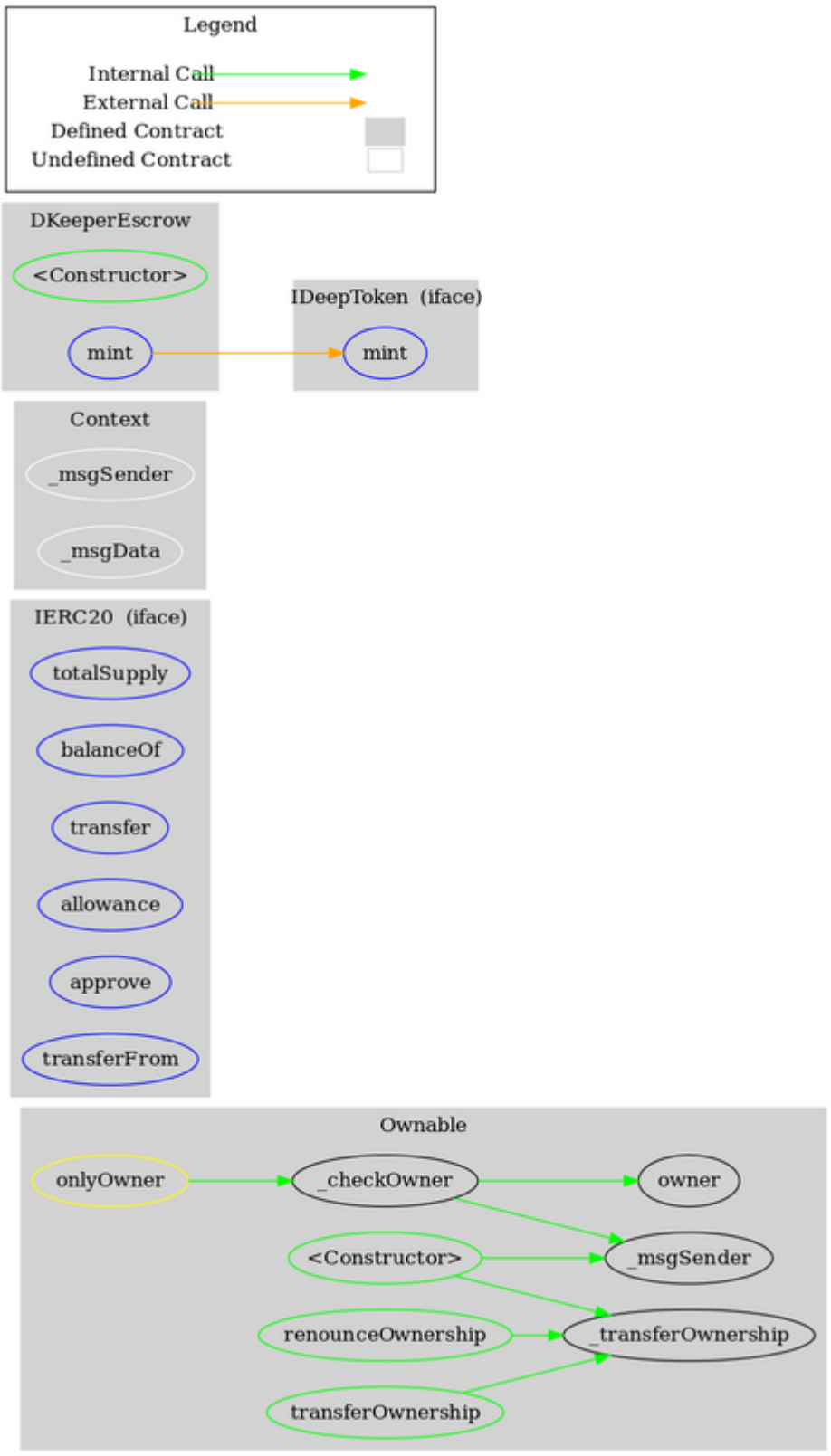
Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-conventions.

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
DKeeperEscrow	Implementation			
		Public	✓	-
	mint	External	✓	-

IDeepToken	Interface	IERC20		
	mint	External	✓	-

Contract Flow



Summary

DKeeperEscrow contracts implement a utility mechanism. This audit investigates security issues, business logic concerns, and potential improvements.

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