



Cyberscope

Audit Report

NFT1155

August 2022

SHA256 a71293c8be464c20a24c058fa451a834f000d47d42e15183410a60475a26a214

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Contract Review

Contract Name	NFT1155
Testing Deploy	https://testnet.bscscan.com/address/0xE339b84254bC74f2F2733D62BeCcBc996f6f0D3A#code
Symbol	TS
Domain	https://battleworld.game

Audit Updates

Initial Audit	4th August 2022
Corrected	

Source Files

Filename	SHA256
@openzeppelin/contracts/interfaces/IERC2981.sol	a8d1ed2cf4ae5718b5c1e8e148e7f5817e934e8d933729eb5c3ac389046041b1
@openzeppelin/contracts/token/common/ERC2981.sol	56fbc83102cc78244419c4c9ab9ee48e53874bb9fa11eda45c85c1c5cf87c076
@openzeppelin/contracts/token/ERC1155/ERC1155.sol	3a7b1481259da24728a0bac33ac9728c0faf71d436e4f198209815f732240a24
@openzeppelin/contracts/token/ERC1155/extensions/IERC1155MetadataURI.sol	6987fbfa647d3da51e8c270371ac48c5fcd26fb046cf54644b39aa098ae30324
@openzeppelin/contracts/token/ERC1155/IERC1155.sol	fd6a1801f1f2f8af0a3ece0b254da06ec24568aec02cfe94827061379aebc6f3
@openzeppelin/contracts/token/ERC1155/IERC1155Receiver.sol	578834a1bcdac6a22de5e07ae63bbbd4d41615f35950afc6e6c068d92619b334
@openzeppelin/contracts/utils/Address.sol	1e0922f6c0bf6b1b8b4d480dcabb691b1359195a297bde6dc5172e79f3a1f826
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/introspection	8806a632d7b656cadb8133ff8f2acae4405b3a64d8709d93b0fa6a216a8a6154

ection/ERC165.sol	
@openzeppelin/contracts/utils/introspection/IERC165.sol	701e025d13ec6be09ae892eb029cd83b3064325801d73654847a5fb11c58b1e5
contracts/NFT1155.sol	a71293c8be464c20a24c058fa451a834f000d47d42e15183410a60475a26a214

Introduction

The NFT1155 contract is an nft contract. The contract owner has the ability to authorize addresses to have Mint access. In addition the contract owner has the ability to approve marketplaces addresses in order to sell Nfts. The value of Royalty Beneficiary is defined by the contract owners during the contract deployment and it can be changed by the owner.

Contract Roles

Role owner:

- The contract owners can pause the marketplace approval and the Nft transfer functionality.
- The contract owners can authorize mintAccess.

Role mintAccess:

- The authorized address can mint Nfts.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L04	Conformance to Solidity Naming Conventions

L04 - Conformance to Solidity Naming Conventions

Criticality

minor

Location

contracts/NFT1155.sol#L34,296,289,37,266,36

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.

```
GaslessListing
_i
ApprovedMP
_operator
_id
_owner
MintAccess
```

Recommendation

Follow the Solidity naming convention.

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

Contract Functions

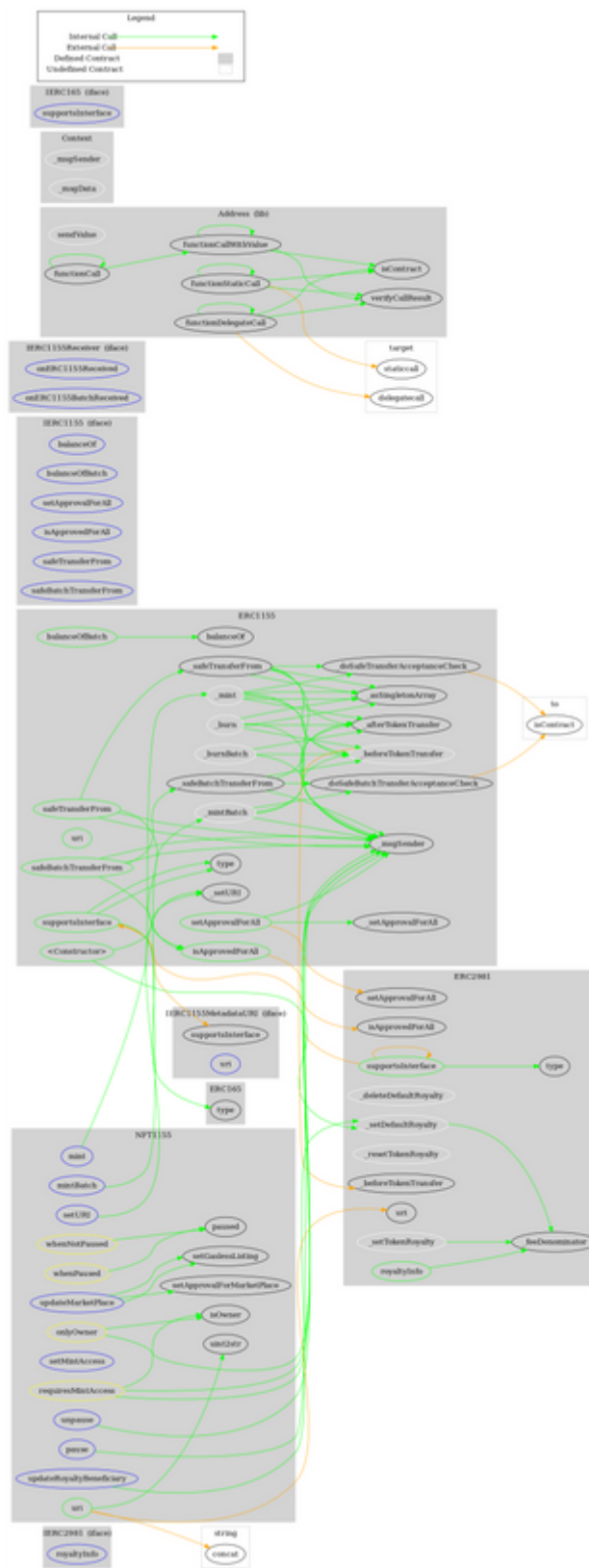
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC2981	Interface	IERC165		
	royaltyInfo	External		-
ERC2981	Implementation	IERC2981, ERC165		
	supportsInterface	Public		-
	royaltyInfo	Public		-
	_feeDenominator	Internal		
	_setDefaultRoyalty	Internal	✓	
	_deleteDefaultRoyalty	Internal	✓	
	_setTokenRoyalty	Internal	✓	
	_resetTokenRoyalty	Internal	✓	
ERC1155	Implementation	Context, ERC165, IERC1155, IERC1155M etadataURI		
	<Constructor>	Public	✓	-
	supportsInterface	Public		-
	uri	Public		-
	balanceOf	Public		-
	balanceOfBatch	Public		-
	setApprovalForAll	Public	✓	-
	isApprovedForAll	Public		-
	safeTransferFrom	Public	✓	-
	safeBatchTransferFrom	Public	✓	-
	_safeTransferFrom	Internal	✓	
	_safeBatchTransferFrom	Internal	✓	
	_setURI	Internal	✓	

	_mint	Internal	✓	
	_mintBatch	Internal	✓	
	_burn	Internal	✓	
	_burnBatch	Internal	✓	
	_setApprovalForAll	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
	_doSafeTransferAcceptanceCheck	Private	✓	
	_doSafeBatchTransferAcceptanceCheck	Private	✓	
	_asSingletonArray	Private		
IERC1155Meta	Interface	IERC1155		
dataURI	uri	External		-
IERC1155	Interface	IERC165		
	balanceOf	External		-
	balanceOfBatch	External		-
	setApprovalForAll	External	✓	-
	isApprovedForAll	External		-
	safeTransferFrom	External	✓	-
	safeBatchTransferFrom	External	✓	-
IERC1155Receiver	Interface	IERC165		
	onERC1155Received	External	✓	-
	onERC1155BatchReceived	External	✓	-
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	

	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	verifyCallResult	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC165	Implementation	IERC165		
	supportsInterface	Public		-
IERC165	Interface			
	supportsInterface	External		-
NFT1155	Implementation	ERC1155, ERC2981		
	<Constructor>	Public	✓	ERC1155
	supportsInterface	Public		-
	updateRoyaltyBeneficiary	External	✓	onlyOwner
	isOwner	Public		-
	paused	Public		-
	pause	External	✓	onlyOwner
	unpause	External	✓	onlyOwner
	setMintAccess	External	✓	onlyOwner
	setGaslessListing	Internal	✓	
	setApprovalForMarketPlace	Internal	✓	
	updateMarketPlace	External	✓	onlyOwner
	setURI	External	✓	onlyOwner
	_beforeTokenTransfer	Internal	✓	whenNotPaused
	uint2str	Internal		
	uri	Public		-
	isApprovedForAll	Public		-
	setApprovalForAll	Public	✓	whenNotPaused

				ed
	mint	External	✓	requiresMintAccess
	mintBatch	External	✓	requiresMintAccess

Contract Flow



Summary

The NFT115 contract implements a nft contract. It provides functionality to mint Nfts for the allowed addresses. The audit investigates the main features, mentions security recommendation, performance improvements and potential optimizations.

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The Cyberscope team

<https://www.cyberscope.io>