

Smart Contract

Security Assessment

**For LinaMeets
25 June 2022**



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Executive Summary

Severity	Found
● High	1
● Medium	1
● Low	3
● Informational	68
Total	73

We performed an independent technical audit to identify Smart Contracts uncertainties. This shall protect the code from illegitimate authorization attempts or external & internal threats of any type. This also ensures end-to-end proofing of the contract from frauds. The audit was performed semi-manually. We analyzed the Smart Contracts code line-by-line and used an automation tool to report any suspicious code.

The following tools were used:

- Truffle
- Remix IDE
- Slither

Overview

This report has been prepared for LinaMeets on the Polygon network. Ascendant provides a user-centered examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective.





Summary

Project Name	LinaMeets
Platform	Polygon
Language	Solidity





Contracts Assessed

Name	Location
linameets.sol	Not deployed
ERC721A.sol	In LinaMeets_NFT Contract
IERC721A.sol	In LinaMeets_NFT Contract
ERC721A_IERC721Receiver.sol	In LinaMeets_NFT Contract
Ownable.sol	In LinaMeets_NFT Contract
Context.sol	In LinaMeets_NFT Contract
Strings.sol	In LinaMeets_NFT Contract

Findings Summary

Severity	Found
 High	1
 Medium	1
 Low	3
 Informational	68
Total	73

Classification of Issues

 High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
 Medium	Bugs or issues that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
 Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
 Informational	Consistency, syntax or style best practices, Generally pose a negligible level of risk, if any.

Manual Review



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Issues Checking Status

Issue Description	Checking Status
Compiler errors	PASS
Race conditions and Reentrancy. Cross-function race conditions.	PASS
Possible delays in data delivery.	PASS
Oracle calls.	PASS
Front running.	PASS
Timestamp dependence.	PASS
Integer Overflow and Underflow.	PASS
DoS with Revert.	PASS
DoS with block gas limit.	PASS
Methods execution permissions.	PASS
Economy model of the contract.	PASS
The impact of the exchange rate on the logic.	PASS
Private user data leaks.	PASS
Malicious Event log.	PASS
Scoping and Declarations.	PASS
Uninitialized storage pointers.	PASS

Arithmetic accuracy.	PASS
Design Logic.	PASS
Cross-function race conditions.	PASS
Safe Open Zeppelin contracts implementation and usage.	PASS
Fallback function security.	PASS

Audit Findings

Severity	High
Contract	linameets.sol
Description	IPFS hash visible in comments
Code Snippet	1510: //QmVJZya8rKExh5qw14QEeqo92WbPKgtZrpf5sJP adSevuny
Recommendation	Delete the comment containing the ipfs hash on line 1510

Severity	Medium
Contract	linameets.sol
Description	string baseURI declared public
Code Snippet	1407: string public baseURI;
Recommendation	<p>When the baseURI is public, this means that even before the reveal function is called, any person can read the baseURI variable, which in the best case scenario, makes the reveal pointless, but in the worse case scenario, a bad actor can use the hash to locate your stored images, download them, and sell them on their own without paying for them.</p> <p>Make the baseURI a private variable.</p>

Functional Test Status

Function Name	Type/Return Type	Score
baseURI	read/public	PASS
unrevURI	read/public	PASS
baseExtension	read/public	PASS
cost	read/public	PASS
maxSupply	read/public	PASS
public_paused	read/public	PASS
revealed	read/public	PASS
_baseURI	internal	PASS
mint	payable/public	PASS
ownerMint	write/public	PASS
tokenURI	read/public	PASS
setCost	write/public	PASS
setBaseURI	write/public	PASS
setUnrevURI	write/public	PASS
setBaseExtension	write/public	PASS
startPublicSale	write/public	PASS
stopPublicSale	write/public	PASS
revealNFT	write/public	PASS

withdraw	payable/public	PASS
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Automated Review

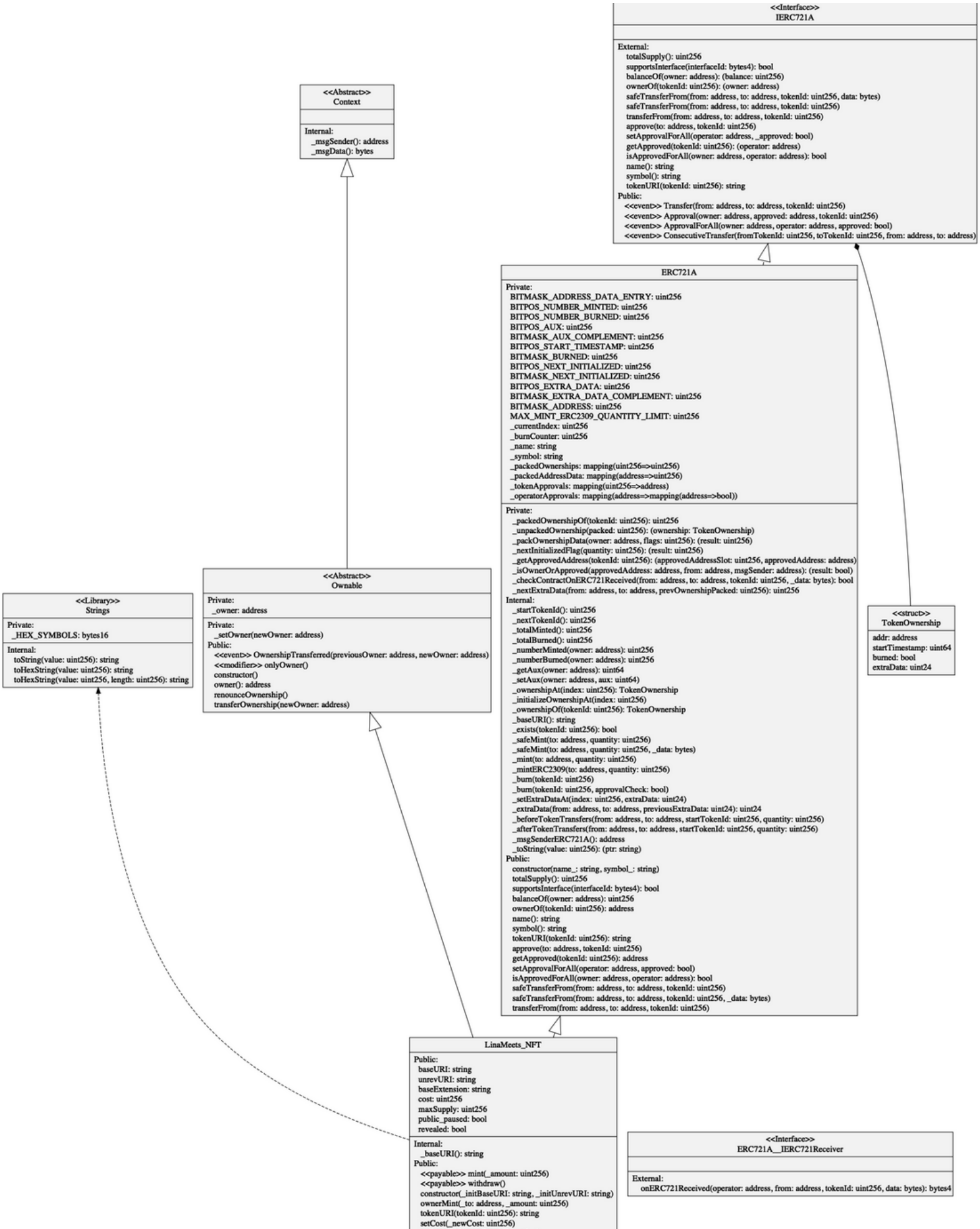


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Inheritance Graph



Unified Modeling Language(UML)



Function ID Report

ERC721A__IERC721Receiver:

Name	ID
onERC721Received(address,address,uint256,bytes)	0x150b7a02

LinaMeets_NFT:

Name	ID
owner()	0x8da5cb5b
renounceOwnership()	0x715018a6
transferOwnership(address)	0xf2fde38b
constructor(string,string)	0xd4d8c5c3
totalSupply()	0x18160ddd
supportsInterface(bytes4)	0x01ffc9a7
balanceOf(address)	0x70a08231
ownerOf(uint256)	0x6352211e
name()	0x06fdde03
symbol()	0x95d89b41
tokenURI(uint256)	0xc87b56dd
approve(address,uint256)	0x095ea7b3
getApproved(uint256)	0x081812fc
setApprovalForAll(address,bool)	0xa22cb465
isApprovedForAll(address,address)	0xe985e9c5
safeTransferFrom(address,address,uint256)	0x42842e0e
safeTransferFrom(address,address,uint256,bytes)	0xb88d4fde
transferFrom(address,address,uint256)	0x23b872dd
totalSupply()	0x18160ddd
supportsInterface(bytes4)	0x01ffc9a7
balanceOf(address)	0x70a08231
ownerOf(uint256)	0x6352211e
safeTransferFrom(address,address,uint256,bytes)	0xb88d4fde
safeTransferFrom(address,address,uint256)	0x42842e0e
transferFrom(address,address,uint256)	0x23b872dd
approve(address,uint256)	0x095ea7b3
setApprovalForAll(address,bool)	0xa22cb465
getApproved(uint256)	0x081812fc
isApprovedForAll(address,address)	0xe985e9c5
name()	0x06fdde03
symbol()	0x95d89b41

	tokenURI(uint256)	0xc87b56dd
	constructor(string,string)	0xd4d8c5c3
	mint(uint256)	0xa0712d68
	ownerMint(address,uint256)	0x484b973c
	tokenURI(uint256)	0xc87b56dd
	setCost(uint256)	0x44a0d68a
	setBaseURI(string)	0x55f804b3
	setUnrevURI(string)	0x841bfb27
	setBaseExtension(string)	0xda3ef23f
	startPublicSale()	0x0c1c972a
	stopPublicSale()	0xda1b91c3
	revealNFT()	0x04b4bba9
	withdraw()	0x3ccfd60b
	baseURI()	0x6c0360eb
	unrevURI()	0x580b1c8d
	baseExtension()	0xc6682862
	cost()	0x13faede6
	maxSupply()	0xd5abeb01
	public_paused()	0x5c6331bd
	revealed()	0x51830227
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Conclusion

The smart contracts reviewed in this audit contain no critical severity issues and all High to Medium issues have either been corrected or acknowledged.

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



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