

Audit Report Openmesh

November 2023

Repository https://github.com/Openmesh-Network/token-deployment/tree/main/contracts

Commit 3726daf86fa50a5c91a8028d2d08457489fc5e7d

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Table of Contents

Table of Contents	1
Review	3
Audit Updates	3
Source Files	3
Test Contracts	4
Initial Audit, 27 Nov 2023	4
Overview	5
OPEN functionality	5
Validator Pass functionality	5
Verified Contributor functionality	5
Fundraiser functionality	6
OpenStaking functionality	6
Verified Contributor Staking functionality	7
Findings Breakdown	8
Diagnostics	9
TOI - Timestamp Ordering Insurance	10
Description	10
Recommendation	11
PSFE - Potential Stake Functionality Enhancement	12
Description	12
Recommendation	12
DPF - Distinctive Presale Functionality	13
Description	13
Recommendation	14
CCR - Contract Centralization Risk	15
Description	15
Recommendation	16
MC - Missing Check	18
Description	18
Recommendation	18
L04 - Conformance to Solidity Naming Conventions	20
Description	20
Recommendation	21
L07 - Missing Events Arithmetic	22
Description	22
Recommendation	22
L14 - Uninitialized Variables in Local Scope	23
Description	23
Recommendation	23



L16 - Validate Variable Setters	24
Description	24
Recommendation	24
L19 - Stable Compiler Version	25
Description	25
Recommendation	25
L20 - Succeeded Transfer Check	26
Description	26
Recommendation	26
Functions Analysis	28
Inheritance Graph	31
Flow Graph	32
Summary	33
Disclaimer	34
About Cyberscope	35



Review

Repository	https://github.com/Openmesh-Network/token-deployment/tree/main/contracts
Commit	3726daf86fa50a5c91a8028d2d08457489fc5e7d

Audit Updates

Source Files

Filename	SHA256
VerifiedContributorStaking.sol	8329d345b9699dd0f701c55f6b929327f12 972a2a38527dba1e44f0caf23bca6
VerifiedContributor.sol	8fee2c2633e04ab73fbea2a9733a6f3d04c 9bfd39e29431b6aa4abc994cf4268
ValidatorPass.sol	033b9628e26775944031cf7d8b7eb9c5be f1805edaef5217b3c4ccf59933eeed
OpenStaking.sol	79357479a1fb6a893863264691b990cad7 7316d3302388ce0c945c11b1351a2c
OPEN.sol	de0eeaff58dd01df24c4f4c23dbea939d06 4fe53caf0b5b52464bba86dc053a9
IOpenStaking.sol	e93702e1adf513c965e5ad41d4fcbae4e42 4141902cef2bee8f2e343ef9b422e
IERC721Mintable.sol	711d9141d8bef2075ff797cb6864bca999a 158a385632b3daad489bebf9f52a6



IERC20MintBurnable.sol	b88f47c61a7fc557acc2ec58a2d85c96225 d2442013544ec537e118ca463347d
Fundraiser.sol	152617b459c6310ccee56aad6b4da95af6f 69a8c5deda6a8b2eee7660538c17f

Test Contracts

Initial Audit, 27 Nov 2023

The following addresses represent the testnet contracts deployed on the Sepolia network

Contract Name	Contract Address
OPEN	https://sepolia.etherscan.io/address/0x9524c3dF8B40fbD55Eff4c6e48 E4386B0Ec114F9
ValidatorPass	https://sepolia.etherscan.io/address/0xca05e4185a5e8d07dc7da06f63 59db63fa090e33
VerifiedContributor	https://sepolia.etherscan.io/address/0xd6cb52d72c6f849b24b1228f1c1 6fe60f68e5177
Fundraiser	https://sepolia.etherscan.io/address/0x373E6a32B4279A2e263C879eCbCD0709Df4D72bA
OpenStaking	https://sepolia.etherscan.io/address/0xbea82A4c2f0315fFc5a3A5434c4 bCcee781cd862
VerifiedContributor Staking	https://sepolia.etherscan.io/address/0x8F0749708fA011343e36671396 6612236640c4B8



Overview

OPEN functionality

The OPEN contract is an ERC20 token with a capped maximum supply, designed to be mintable up to a specified limit. It incorporates the ERC20Votes and AccessControl from OpenZeppelin, allowing for governance-related functionalities. The minting of these tokens can be managed by external smart contracts. Control over minting rights is centralized to a single address, which could be a DAO or a multisig wallet, with the ability to transfer these rights to a new address. Additionally, users have the capability to burn tokens from their own wallets. The contract ensures that minting does not exceed the maximum supply and provides interfaces for various ERC standards, enhancing its interoperability and functionality within the Ethereum ecosystem.

Validator Pass functionality

The Validator Pass contract is an ERC721 token, characterized by its non-transferability, ensuring that these tokens cannot be sold on marketplaces. It inherits from OpenZeppelin's ERC721 and AccessControl, and implements the IERC721Mintable interface. The contract is designed with a unique MINT_ROLE, allowing specific addresses (potentially a DAO or multisig wallet) to mint new tokens. The minting process is tracked by a counter (mintCounter), which increments with each new token minted. The contract also includes a metadata URI for the token, providing a link to its associated metadata. A key feature of this contract is the overridden transferFrom function, which includes a condition to prevent the transfer of tokens, enforcing their non-transferable nature. This design choice aligns with the intent to restrict the secondary market trading of these tokens, focusing on their utility within the designated ecosystem rather than as tradable assets.

Verified Contributor functionality

The Verified Contributor contract is an ERC721 token, designed with a focus on non-transferability to prevent trading on secondary markets. It extends OpenZeppelin's ERC721Enumerable and AccessControl, providing both a comprehensive token enumeration and flexible access control mechanisms. The contract defines two distinct roles the MINT_ROLE and BURN_ROLE, each represented by unique hashes. These roles enable specific addresses, potentially managed by a DAO or a multisig wallet, to mint



and burn tokens. The contract also includes a metadata URI, which links to the token's metadata, typically used for representing the token's attributes or artwork. Additionally this contract is also override the transferFrom function, which includes a check to prevent the transfer of tokens, thereby ensuring their non-transferability. This feature aligns with the intent to use these tokens within a specific ecosystem, focusing on their utility and role rather than as tradable assets. The mint and burn functions are marked as external and can only be called by addresses with the appropriate roles, providing a controlled environment for token creation and destruction.

Fundraiser functionality

The Fundraiser contract is a smart contract designed for a time-limited fundraising event, where participants contribute ETH and receive OPEN ERC20 tokens in return, based on a fixed rate that varies weekly. The contract includes a mapping to track individual contributions and arrays to define the tokens-per-Wei rate and the fundraising period's end dates. It employs two interfaces, the IERC20MintBurnable for the OPEN token and IERC721Mintable for the Validators Pass NFT. The contract sets minimum and maximum contribution limits per account and includes a fund storage address where the raised ETH will be sent post-fundraiser. The fundraising mechanism is triggered through fallback and receive functions, calculating the token amount based on the current week's rate. If a participant hits the maximum contribution limit, they are also mint an NFT. After the fundraising period, the contract facilitates the transfer of collected funds to the designated storage and burns any remaining OPEN tokens, ensuring the adherence to the hard cap. This contract effectively combines fundraising with incentivized participation through tiered rewards and exclusive NFT minting for maximum contributors.

OpenStaking functionality

The OpenStaking contract is a part of the OPEN token ecosystem, focusing on staking. The contract allows users to stake OPEN tokens by transferring them to the contract, which then burns these tokens, marking them as staked.

Withdrawals are unique, using EIP712 signatures for authentication, with an initial setup where the contract owner's signature is necessary for withdrawal approval. This process involves minting new OPEN tokens for the withdrawer. The contract also uses a nonce system for each address to prevent replay attacks.

This contract represents a mix of centralized control (via EOA signatures for withdrawals) and decentralized execution (staking and withdrawal processes on the blockchain), offering a secure and flexible approach for early-stage staking in the OPEN ecosystem.

Verified Contributor Staking functionality

The Verified Contributor Staking contract rewards holders of a specific ERC721 (NFT)token, with ERC20 tokens over time. Staking an ERC721 token in this contract starts the accumulation of ERC20 rewards at a set rate per second. This continues until the token is unstaked or the staking period concludes. Rewards are minted in real-time upon claiming, ensuring accuracy and timeliness.

Key features include the flexibility for token holders to stake and unstake at will. Safeguards ensure that only the NFT's current owner can interact with the staking process, aligning with the non-transferable nature of the NFT. If the NFT is burned or transferred, staking benefits stop.

In summary, this contract incentivizes holding specific NFTs by rewarding holders with ERC20 tokens, striking a balance between simplicity and adaptability for staking non-transferable NFTs.



Findings Breakdown



Sev	erity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	11	0	0	0



Diagnostics

Critical
 Medium
 Minor / Informative

Severity	Code	Description	Status
•	TOI	Timestamp Ordering Insurance	Unresolved
•	PSFE	Potential Stake Functionality Enhancement	Unresolved
•	DPF	Distinctive Presale Functionality	Unresolved
•	CCR	Contract Centralization Risk	Unresolved
•	MC	Missing Check	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved
•	L16	Validate Variable Setters	Unresolved
•	L19	Stable Compiler Version	Unresolved
•	L20	Succeeded Transfer Check	Unresolved



TOI - Timestamp Ordering Insurance

Criticality	Minor / Informative
Location	Fundraiser.sol#L27,62
Status	Unresolved

Description

The contract is setting the end array during the constructor. This array contains block timestamp values reflecting the weeks time. However, the contract does not verify if the values passed to the end array are in ascending order. As a result, if non-ordered values are passed, the if condition, which checks the current block.timestamp against the end array values, will fail if a value in the end array is less than its previous value.



```
constructor(
       uint256[] memory tokensPerWei,
       IERC20MintBurnable token,
       IERC721Mintable nft,
       address payable fundStorage,
       uint32 start,
       uint32[] memory end,
       uint256 minWeiPerAccount,
       uint256 maxWeiPerAccount
   ) {
       tokensPerWei = _tokensPerWei;
       token = _token;
       nft = nft;
       fundStorage = fundStorage;
       start = start;
       end = _end;
function currentTokensPerWei() public view returns (uint256) {
if (block.timestamp < end[i]) {</pre>
              return tokensPerWei[i];
```

Recommendation

It is recommended to add additional checks during the setting of the end array to ensure that the values being passed are in ascending order. This validation will help prevent unexpected behavior in the contract and ensure that the conditional check comparing block timestamps with end array values is reliable. Adding input validation is crucial for maintaining the integrity and functionality of the contract.



PSFE - Potential Stake Functionality Enhancement

Criticality	Minor / Informative
Location	OpenStaking.sol#L26
Status	Unresolved

Description

The contract contains the stake function which transfers the user's tokens to the contract address and subsequently burns them. This burn of staked tokens poses a risk to accurately measuring the total value locked within the contract, since the total value locked is reduced, leading to an inability to accurately track the total value of the tokens within the contract.

```
function stake(uint256 _amount) external {
    token.transferFrom(msg.sender, address(this), _amount);
    token.burn(_amount);
    emit TokensStaked(msg.sender, _amount);
}
```

Recommendation

It is recommended to reconsider the stake function implementation. Instead of instantly burning the tokens, the contract could modify the logic to maintain a record of the total staked amount. Subsequently, rewards can be minted based on this accumulated total staked amount, ensuring a more accurate representation of the total value locked for each user.



DPF - Distinctive Presale Functionality

Criticality	Minor / Informative
Location	Fundraiser.sol#L84,92
Status	Unresolved

Description

The contract is designed to distribute tokens directly during the fundraise phase. Typically, in a presale context, tokens are not immediately released to buyers but are instead held until the project's owner adds liquidity to a decentralized exchange (DEX) like Uniswap. This approach ensures that the token's value is stabilized and prevents early buyers from setting up their own liquidity pools with potentially unfavorable or unbalanced exchange rates. If a user were to establish liquidity on Uniswap with disproportionate ratios compared to the presale rates, it could create market confusion and potentially discourage participation in the presale. Such actions could lead to a loss of confidence in the token's value and stability, adversely affecting the overall success of the presale.



Recommendation

It is recommended to modify the fundraise process to withhold the immediate distribution of tokens. Instead, tokens should be released to presale participants only after the project owner has successfully added liquidity to a DEX. This approach will help maintain a consistent and fair market value for the token, aligned with the presale valuation. Additionally, implementing a lock-up period or vesting schedule for presale tokens could further prevent early participants from disproportionately influencing the market. These changes will likely enhance investor confidence and participation in the presale, contributing to a more stable and successful token launch.



CCR - Contract Centralization Risk

Criticality	Minor / Informative
Location	OPEN.sol#L47ValidatorPass.sol#L42 VerifiedContributor.sol#L48 Fundraiser.sol IOpenStaking.sol#L33 VerifiedContributorStaking.sol
Status	Unresolved

Description

The contract's functionality and behavior are heavily dependent on external parameters or configurations. While external configuration can offer flexibility, it also poses several centralization risks that warrant attention. Centralization risks arising from the dependence on external configuration include Single Point of Control, Vulnerability to Attacks, Operational Delays, Trust Dependencies, and Decentralization Erosion.

Specifically, the contract is currently structured in a way that centralizes significant control and authority in the hands of the contract owner, along with designated minter and burner accounts. The owner has the exclusive ability to set addresses authorized to mint tokens and NFTs to specific target addresses, and to burn NFTs. Additionally, the owner have the authority to transfer tokens to the Fundraiser contract and to execute withdrawals through the OpenStaking contract. Furthermore, the owner have to supply the rewardToken to the VerifiedContributorStaking, which is essential for users to claim their rewards, and also sets the end time of the staking period. This concentration of power in a single role raises concerns about potential misuse or single points of failure, which could undermine the trust and security of the contract.



```
function mint(
       address account,
       uint256 amount
    ) external onlyRole(MINT ROLE) {
       if (totalSupply() + amount > maxSupply) {
           revert SurpassMaxSupply();
        mint(account, amount);
    function mint(address account) external onlyRole(MINT ROLE) {
       mint(account, mintCounter++);
    function mint(
       address to,
       uint256 tokenId
    ) external virtual onlyRole(MINT ROLE) {
       mint(to, tokenId);
    function burn(uint256 tokenId) external virtual
onlyRole(BURN ROLE) {
       burn (tokenId);
    function withdraw (
    ) external {
        if (signer != owner()) {
           revert InvalidProof();
       token.mint( withdrawer, amount);
```

Recommendation

To address this finding and mitigate centralization risks, it is recommended to evaluate the feasibility of migrating critical configurations and functionality into the contract's codebase itself. This approach would reduce external dependencies and enhance the contract's

self-sufficiency. It is essential to carefully weigh the trade-offs between external configuration flexibility and the risks associated with centralization.

MC - Missing Check

Criticality	Minor / Informative
Location	Fundraiser.sol#L25
Status	Unresolved

Description

The contract is processing variables that have not been properly sanitized and checked that they form the proper shape. These variables may produce vulnerability issues.

Specifically, the contract sets the <code>minWeiPerAccount</code> and <code>maxWeiPerAccount</code> variables during its constructor, but lacks a crucial check to ensure <code>_minWeiPerAccount</code> is less than <code>_maxWeiPerAccount</code>. This oversight could lead to operational issues. Additionally, the contract uses <code>_end</code> and <code>_tokensPerWei</code> arrays to denote week numbers and corresponding token rewards, but it doesn't verify if these arrays are of equal length, risking reward distribution errors.

```
constructor(
    uint256[] memory _tokensPerWei,
    ...
    uint32[] memory _end,
    uint256 _minWeiPerAccount,
    uint256 _maxWeiPerAccount
) {
    tokensPerWei = _tokensPerWei;
    ...
    end = _end;
    minWeiPerAccount = _minWeiPerAccount;
    maxWeiPerAccount = _maxWeiPerAccount;
}
```

Recommendation

The team is advised to properly check the variables according to the required specifications. It is recommended to ensure that __minWeiPerAccount is always less than __maxWeiPerAccount to maintain logical consistency, and verify that length of end and tokensPerWei arrays are equal to align week numbers with their

respective token rewards, ensuring accurate reward distribution. These improvements will significantly bolster the contract's reliability and functionality.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	VerifiedContributorStaking.sol#L36,49,62,86,95 VerifiedContributor.sol#L27 OpenStaking.sol#L26,34,35,36,37,38,64 OPEN.sol#L34Fundraiser.sol#L53
Status	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).
- 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.



```
uint256 _tokenId
uint64 _stakingOver
bytes4 _interfaceId
uint256 _amount
uint8 _v
bytes32 _r
bytes32 _s
address _withdrawer
address _account
...
```

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.



L07 - Missing Events Arithmetic

Criticality	Minor / Informative
Location	VerifiedContributorStaking.sol#L100
Status	Unresolved

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
stakingOver = _stakingOver
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.

L14 - Uninitialized Variables in Local Scope

Criticality	Minor / Informative
Location	Fundraiser.sol#L58
Status	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.

uint i

Recommendation

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



L16 - Validate Variable Setters

Criticality	Minor / Informative
Location	Fundraiser.sol#L38
Status	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.

```
fundStorage = _fundStorage
```

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.

L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	VerifiedContributorStaking.sol#L2 VerifiedContributor.sol#L2ValidatorPass.sol#L2 OpenStaking.sol#L2OPEN.sol#L2 IOpenStaking.sol#L2Fundraiser.sol#L2
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 ^0.8.0;
```

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.



L20 - Succeeded Transfer Check

Criticality	Minor / Informative
Location	OpenStaking.sol#L27 Fundraiser.sol#L84
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
token.transferFrom(msg.sender, address(this), _amount)
token.transfer(msg.sender, msg.value * _currentTokensPerWei())
```

Recommendation

The contract should check if the result of the transfer methods is successful. The team is advised to check the SafeERC20 library from the Openzeppelin library.





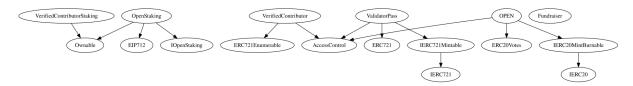
Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
VerifiedContrib utorStaking	Implementation	Ownable		
		Public	✓	Ownable
	stake	External	✓	-
	unstake	External	✓	-
	claimable	Public		-
	claim	External	✓	-
	setStakingEnd	External	✓	onlyOwner
	_toUint64	Internal		
	_claim	Internal	✓	
VerifiedContrib utor	Implementation	ERC721Enu merable, AccessContr ol		
		Public	✓	ERC721
	supportsInterface	Public		-
	tokenURI	Public		-
	mint	External	✓	onlyRole
	burn	External	✓	onlyRole
	transferFrom	Public	✓	-

ValidatorPass	Implementation	ERC721, AccessContr ol, IERC721Mint able		
		Public	✓	ERC721
	supportsInterface	Public		-
	mint	External	✓	onlyRole
	tokenURI	Public		-
	transferFrom	Public	✓	-
OpenStaking	Implementation	Ownable, EIP712, IOpenStakin		
		Public	✓	Ownable EIP712
	stake	External	✓	-
	withdraw	External	✓	-
	getNonce	External		-
OPEN	Implementation	ERC20Votes, AccessContr ol, IERC20Mint Burnable		
		Public	✓	ERC20 EIP712
	supportsInterface	Public		-
	mint	External	✓	onlyRole
	burn	External	✓	-

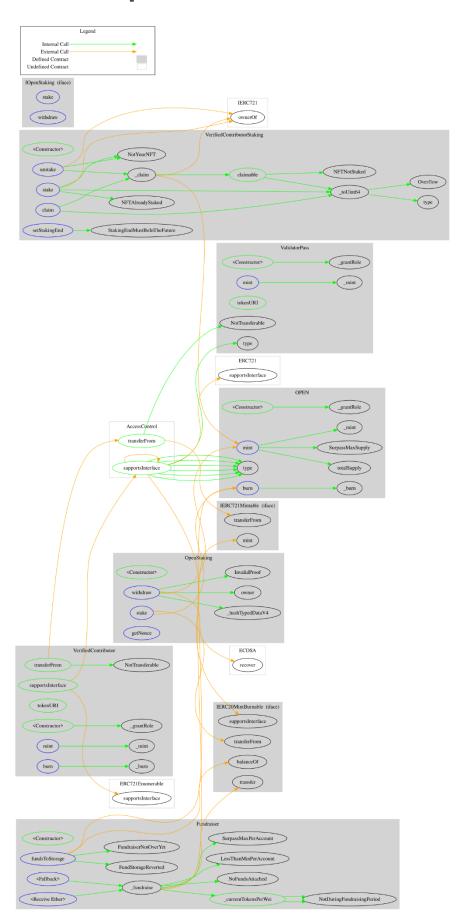
IOpenStaking	Interface			
	stake	External	✓	-
	withdraw	External	1	-
IERC721Mintab le	Interface	IERC721		
	mint	External	✓	-
IERC20MintBur nable	Interface	IERC20		
	mint	External	✓	-
	burn	External	1	-
Fundraiser	Implementation			
		Public	1	-
		External	Payable	-
		External	Payable	-
	_currentTokensPerWei	Public		-
	_fundraise	Internal	✓	
	fundsToStorage	External	✓	-

Inheritance Graph





Flow Graph



Summary

The Openmesh contract introduces a unique staking mechanism, integrating both token and NFT assets, to incentivize network participation and validate transactions. This audit focuses on identifying security vulnerabilities, evaluating the business logic, and suggesting potential enhancements to ensure robustness and efficiency.

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Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.

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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

https://www.cyberscope.io