

Audit Report **Apeswap**

January 2024

Network ETH

Address 0x92df60c51c710a1b1c20e42d85e221f3a1bfc7f2

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Review

Contract Name	AnyswapV6ERC20
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Explorer	https://etherscan.io/address/0x92df60c51c710a1b1c20e42d85e 221f3a1bfc7f2
Address	0x92df60c51c710a1b1c20e42d85e221f3a1bfc7f2
Network	ETH
Symbol	BANANA
Decimals	18
Total Supply	80,025.924

Audit Updates

Initial Audit	13 Jan 2024
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Source Files

Filename	SHA256
AnyswapV6ERC20.sol	01ea484ccbf21433fa82d4aba3d779761ddb497dd0f1eeeec798427c2df 812b1



Overview

The AnyswapV6ERC20 contract is an advanced implementation of the ERC20 token standard, integrating features from ERC2612 and ERC677 standards. It is designed to facilitate cross-chain token swaps and interactions with smart contracts in a more efficient and flexible manner.

AnyswapV6ERC20 Contract Functionality

Token Operations and Management

At its core, the contract manages the AnyswapV6ERC20 tokens, including minting, burning, and transferring tokens. The minting function allows authorized addresses (minters) to create new tokens, while the burning function enables the destruction of tokens from a specified address. This mechanism is crucial for maintaining the token's supply in accordance with the underlying assets, especially in cross-chain scenarios.

Cross-Chain Swapping

The contract introduces unique functionalities for cross-chain token swaps, represented by the Swapin and Swapout functions. Swapin is used to mint AnyswapV6ERC20 tokens on one blockchain in response to a deposit on another chain, while Swapout allows users to burn AnyswapV6ERC20 tokens in exchange for the underlying asset on the original chain. This feature is essential for enabling seamless asset transfers across blockchain networks.

Enhanced Transfer Mechanisms

In addition to standard ERC20 transfer and transferFrom methods, the contract implements transferAndCall functionality, derived from the ERC677 standard. This method allows tokens to be transferred to a contract address and simultaneously calls a function on the receiving contract. This feature facilitates more complex interactions with contracts in a single transaction, enhancing the token's utility in decentralized applications.



Transfers Permit

The AnyswapV6ERC20 contract incorporates the ERC2612 standard's permit function, enabling off-chain signed approvals. This feature allows token holders to authorize transfers or other actions through a signature, rather than executing an on-chain transaction. It obviates the need for a blocking approved transaction before programmatic interactions with the token can occur. This is particularly useful in DeFi applications, where multiple approvals are often required. The permit function utilizes the ERC712 protocol, ensuring user safety and wallet compatibility by simplifying the process of signing data with private keys.

Administrative Controls

The contract includes administrative functions to manage its operation, such as setting minters, changing the vault address (the primary controller), and enabling or disabling certain features. These controls ensure the flexibility and adaptability of the token to different use cases and governance models.

Overall, the AnyswapV6ERC20 contract represents a sophisticated and versatile implementation of the ERC20 token standard, tailored for cross-chain interoperability, enhanced contract interactions, efficient transaction approval processes, and meta-transaction capabilities.



Findings Breakdown



Sev	erity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	15	0	0	0



Diagnostics

Critical
 Medium
 Minor / Informative

Severity	Code	Description	Status
•	CR	Code Repetition	Unresolved
•	CCR	Contract Centralization Risk	Unresolved
•	IDI	Immutable Declaration Improvement	Unresolved
•	MVN	Misleading Variable Naming	Unresolved
•	MEM	Missing Error Messages	Unresolved
•	MEE	Missing Events Emission	Unresolved
•	RSW	Redundant Storage Writes	Unresolved
•	TUU	Time Units Usage	Unresolved
•	VDB	Vault Delay Bypass	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L09	Dead Code Elimination	Unresolved
•	L16	Validate Variable Setters	Unresolved
•	L17	Usage of Solidity Assembly	Unresolved



L19 Stable Compiler Version Unresolved



CR - Code Repetition

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L481,533,555,586
Status	Unresolved

Description

The contract contains repetitive code segments. There are potential issues that can arise when using code segments in Solidity. Some of them can lead to issues like gas efficiency, complexity, readability, security, and maintainability of the source code. It is generally a good idea to try to minimize code repetition where possible. Specifically the ransferWithPermit , transfer , transferFrom , and transferAndCall functions share similar code segments.



```
function transferWithPermit(address target, address to, uint256
value, uint256 deadline, uint8 v, bytes32 r, bytes32 s) external
override returns (bool) {
        require(block.timestamp <= deadline, "AnyswapV3ERC20: Expired</pre>
permit");
       bytes32 hashStruct = keccak256(
            abi.encode(
                TRANSFER TYPEHASH,
               target,
                to,
                value,
                nonces[target]++,
                deadline));
        require(verifyEIP712(target, hashStruct, v, r, s) ||
verifyPersonalSign(target, hashStruct, v, r, s));
        require(to != address(0) || to != address(this));
        uint256 balance = balanceOf[target];
        require(balance >= value, "AnyswapV3ERC20: transfer amount
exceeds balance");
       balanceOf[target] = balance - value;
       balanceOf[to] += value;
        emit Transfer(target, to, value);
       return true;
function transfer(address to, uint256 value) external override returns
(bool) {
    function transferFrom(address from, address to, uint256 value)
external override returns (bool) {
    function transferAndCall(address to, uint value, bytes calldata
data) external override returns (bool) {
```

Recommendation

The team is advised to avoid repeating the same code in multiple places, which can make the contract easier to read and maintain. The authors could try to reuse code wherever possible, as this can help reduce the complexity and size of the contract. For instance, the contract could reuse the common code segments in an internal function in order to avoid repeating the same code in multiple places.



CCR - Contract Centralization Risk

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L274,279
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, addresses designated as minters, as indicated by the onlyAuth modifier, possess the authority to mint and burn tokens. This authority extends to any address passed as the from parameter in these functions, or as the account parameter in the Swapin function. Such a level of control concentrated in the hands of a few addresses raises concerns about the centralization, as these minters can unilaterally influence the token supply by minting new tokens or burning existing ones to or from any account.



```
function mint(address to, uint256 amount) external onlyAuth returns
(bool) {
    _mint(to, amount);
    return true;
}

function burn(address from, uint256 amount) external onlyAuth
returns (bool) {
    require(from != address(0), "AnyswapV3ERC20: address(0x0)");
    _burn(from, amount);
    return true;
}

function Swapin(bytes32 txhash, address account, uint256 amount)
public onlyAuth returns (bool) {
    _mint(account, amount);
    emit LogSwapin(txhash, account, amount);
    return true;
}
```

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.



IDI - Immutable Declaration Improvement

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L320,323,325,326,327
Status	Unresolved

Description

The contract declares state variables that their value is initialized once in the constructor and are not modified afterwards. The <u>immutable</u> is a special declaration for this kind of state variables that saves gas when it is defined.

```
_init
_vaultOnly
vault
pendingVault
delayVault
```

Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.



MVN - Misleading Variable Naming

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L220,292
Status	Unresolved

Description

Variables can have misleading names if their names do not accurately reflect the value they contain or the purpose they serve. The contract uses some variable names that are too generic or do not clearly convey the information stored in the variable. Misleading variable names can lead to confusion, making the code more difficult to read and understand.

The contract is currently utilizing the __vaultonly variable in a manner that might lead to confusion regarding its intended purpose. Specifically, in the _Swapout function, there is a requirement that the __vaultonly variable must be set to _false to proceed with the function execution. However, the naming of __vaultonly suggests that it is intended to restrict the execution of this function to only the vault address. This discrepancy between the variable's name and its actual use in the logic could lead to misunderstandings about the function's behavior and its security implications.

```
function setVaultOnly(bool enabled) external onlyVault {
    __vaultOnly = enabled;
}

function Swapout(uint256 amount, address bindaddr) public returns
(bool) {
    require(!_vaultOnly, "AnyswapV4ERC20: onlyAuth");
    ...
}
```

Recommendation

It's always a good practice for the contract to contain variable names that are specific and descriptive. The team is advised to keep in mind the readability of the code. It is recommended to reassess the intended functionality of the __vaultOnly variable. If the purpose is solely to toggle the __Swapout __function's ability to be executed, then renaming



_vaultonly to more accurately reflect this toggle functionality would be beneficial. A name that clearly indicates its role in enabling or disabling the _Swapout _function would prevent confusion and enhance code readability. Alternatively, if the original intent was to ensure that the _Swapout _function can only be invoked by the vault address, then the logic should be revised to align with this intention. This might involve implementing additional checks to verify that the caller is the vault address when __vaultOnly _is true. Clarifying and aligning the variable name and functionality will improve the contract's transparency and security.



MEM - Missing Error Messages

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L225,241,252,316,366,474,493,495,534,556,587
Status	Unresolved

Description

The contract is missing error messages. The are no error messages to accurately reflect the problem, making it difficult to identify and fix the issue. As a result, the users will not be able to find the root cause of the error.

```
require(_init)
require(block.timestamp >= delayVault)
require(block.timestamp >= delayMinter)
require(_decimals == IERC20(_underlying).decimals())
require(underlying != address(0x0) && underlying != address(this))
require(verifyEIP712(target, hashStruct, v, r, s) ||
verifyPersonalSign(target, hashStruct, v, r, s))
require(to != address(0) || to != address(this))
```

Recommendation

The team is suggested to provide a descriptive message to the errors. This message can be used to provide additional context about the error that occurred or to explain why the contract execution was halted. This can be useful for debugging and for providing more information to users that interact with the contract.



MEE - Missing Events Emission

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L221
Status	Unresolved

Description

The contract performs actions and state mutations from external methods that do not result in the emission of events. Emitting events for significant actions is important as it allows external parties, such as wallets or dApps, to track and monitor the activity on the contract. Without these events, it may be difficult for external parties to accurately determine the current state of the contract.

```
_vaultOnly = enabled;
```

Recommendation

It is recommended to include events in the code that are triggered each time a significant action is taking place within the contract. These events should include relevant details such as the user's address and the nature of the action taken. By doing so, the contract will be more transparent and easily auditable by external parties. It will also help prevent potential issues or disputes that may arise in the future.



RSW - Redundant Storage Writes

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L219,236,247,258
Status	Unresolved

Description

The contract modifies the state of the following variables without checking if their current value is the same as the one given as an argument. As a result, the contract performs redundant storage writes, when the provided parameter matches the current state of the variables, leading to unnecessary gas consumption and inefficiencies in contract execution.

```
_vaultOnly = enabled;
pendingVault = _vault;
pendingMinter = _auth;
isMinter[_auth] = false;
```

Recommendation

The team is advised to implement additional checks within to prevent redundant storage writes when the provided argument matches the current state of the variables. By incorporating statements to compare the new values with the existing values before proceeding with any state modification, the contract can avoid unnecessary storage operations, thereby optimizing gas usage.



TUU - Time Units Usage

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L183
Status	Unresolved

Description

The contract is using arbitrary numbers to form time-related values. As a result, it decreases the readability of the codebase and prevents the compiler to optimize the source code.

```
uint public delay = 2*24*3600;
```

Recommendation

It is a good practice to use the time units reserved keywords like seconds, minutes, hours, days and weeks to process time-related calculations.

It's important to note that these time units are simply a shorthand notation for representing time in seconds, and do not have any effect on the actual passage of time or the execution of the contract. The time units are simply a convenience for expressing time in a more human-readable form.



VDB - Vault Delay Bypass

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L234,240,266
Status	Unresolved

Description

The contract contains the setVault and applyVault functions to manage the vault address, incorporating a delay mechanism for added security. The setVault function allows setting a new vault address, stored in pendingVault, and establishes a delay period before this change can be applied. The applyVault function, which can only be executed after the delay period, finalizes the change by updating the vault address. However, the contract also includes the changeVault function that immediately changes the vault address without adhering to the delay mechanism. This function directly updates both vault and pendingVault variables, bypassing the intended security measure of the delay. As a result, the changeVault function undermines the delay logic implemented in the other functions.

```
function setVault(address _vault) external onlyVault {
    require(_vault != address(0), "AnyswapV3ERC20: address(0x0)");
    pendingVault = _vault;
    delayVault = block.timestamp + delay;
}

function applyVault() external onlyVault {
    require(block.timestamp >= delayVault);
    vault = pendingVault;
}

function changeVault(address newVault) external onlyVault returns
(bool) {
    require(newVault != address(0), "AnyswapV3ERC20: address(0x0)");
    vault = newVault;
    pendingVault = newVault;
    emit LogChangeVault(vault, pendingVault, block.timestamp);
    return true;
}
```

Recommendation

It is recommended to reconsider the approach to changing the vault address. If the intended functionality is to apply the change only after a specific delay, then the changeVault function should be modified to align with this logic. This could involve integrating the delay mechanism into changeVault or removing the function altogether if it contradicts the intended security protocol. Otherwise, maintaining a function that can instantly override the delay renders the delay logic redundant and potentially exposes the contract to security risks. Ensuring consistency in the implementation of the delay mechanism across all relevant functions is crucial for maintaining the integrity and security of the contract.



L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L183
Status	Unresolved

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
uint public delay = 2*24*3600
```

Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L170,224,234,245,258,285,291
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).
- 3. 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.

```
bytes32 public immutable DOMAIN_SEPARATOR
address _vault
address _auth

function Swapin(bytes32 txhash, address account, uint256 amount) public
onlyAuth returns (bool) {
    __mint(account, amount);
    emit LogSwapin(txhash, account, amount);
    return true;
}
...
```

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.



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L140
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.



L16 - Validate Variable Setters

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L226,314,325
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.

```
vault = _vault
underlying = _underlying
```

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.



L17 - Usage of Solidity Assembly

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L124,330
Status	Unresolved

Description

Using assembly can be useful for optimizing code, but it can also be error-prone. It's important to carefully test and debug assembly code to ensure that it is correct and does not contain any errors.

Some common types of errors that can occur when using assembly in Solidity include Syntax, Type, Out-of-bounds, Stack, and Revert.

```
assembly { codehash := extcodehash(account) }
assembly {chainId := chainid()}
```

Recommendation

It is recommended to use assembly sparingly and only when necessary, as it can be difficult to read and understand compared to Solidity code.



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	AnyswapV6ERC20.sol#L47
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 ^0.8.2;
```

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.



Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC2612	Interface			
	nonces	External		-
	permit	External	✓	-
	transferWithPermit	External	√	-
IAnyswapV3ER C20	Interface	IERC20, IERC2612		
	approveAndCall	External	✓	-
	transferAndCall	External	✓	-



ITransferReceiv er	Interface			
	onTokenTransfer	External	✓	-
IApprovalRecei ver	Interface			
	onTokenApproval	External	✓	-
Address	Library			
	isContract	Internal		
SafeERC20	Library			
	safeTransfer	Internal	✓	
	safeTransferFrom	Internal	✓	
	safeApprove	Internal	✓	
	callOptionalReturn	Private	✓	
AnyswapV6ER C20	Implementation	IAnyswapV3 ERC20		
	owner	Public		-
	mpc	Public		-
	setVaultOnly	External	✓	onlyVault
	initVault	External	✓	onlyVault
	setVault	External	✓	onlyVault
	applyVault	External	1	onlyVault
	setMinter	External	✓	onlyVault

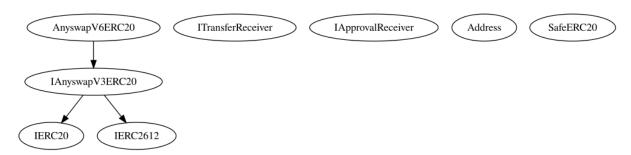


applyMinter	External	✓	onlyVault
revokeMinter	External	✓	onlyVault
getAllMinters	External		-
changeVault	External	1	onlyVault
mint	External	1	onlyAuth
burn	External	✓	onlyAuth
Swapin	Public	1	onlyAuth
Swapout	Public	1	-
	Public	1	-
totalSupply	External		-
deposit	External	✓	-
deposit	External	1	-
deposit	External	✓	-
depositVault	External	1	onlyVault
_deposit	Internal	1	
withdraw	External	1	-
withdraw	External	1	-
withdraw	External	✓	-
withdrawVault	External	✓	onlyVault
_withdraw	Internal	✓	
_mint	Internal	✓	
_burn	Internal	✓	
approve	External	1	-

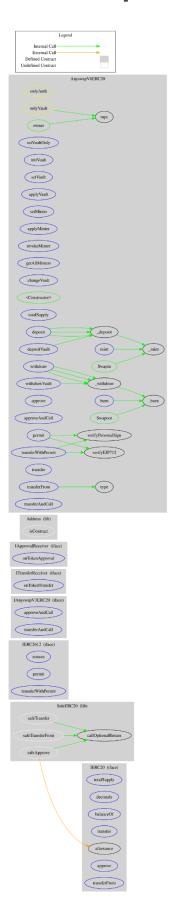


approveAndCall	External	1	-
permit	External	1	-
transferWithPermit	External	1	-
verifyEIP712	Internal		
verifyPersonalSign	Internal		
transfer	External	1	-
transferFrom	External	1	-
transferAndCall	External	1	-

Inheritance Graph



Flow Graph





Summary

The AnyswapV6ERC20 contract implements advanced token functionalities, integrating cross-chain interoperability and enhanced transfer mechanisms. This audit investigates security issues, business logic concerns and potential improvements.

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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.

About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

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