# Armors Labs

FEC Token

**Smart Contract Audit** 

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# **FEC Token Audit Summary**

Project name: FEC Token Contract

Project address: None

Code URL: https://etherscan.io/address/0xb37f1cc33b72e042615354f99f43b8e2845f429b#code

Commit: None

Project target: FEC Token Contract Audit

Blockchain: Ethereum

Test result: PASSED

Audit Info

Audit NO: 0X202111290016

Audit Team: Armors Labs

Audit Proofreading: https://armors.io/#project-cases

# **FEC Token Audit**

The FEC Token team asked us to review and audit their FEC Token contract. We looked at the code and now publish our results.

Here is our assessment and recommendations, in order of importance.

# **Document information**

Name	Auditor	Version	Date
FEC Token Audit	Rock, Sophia, Rushairer, Rico, David, Alice	1.0.0	2021-11-29

# **Audit results**

Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the FEC Token contract. The above should not be construed as investment advice.

Based on the widely recognized security status of the current underlying blockchain and smart contract, this audit report is valid for 3 months from the date of output.

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# Audited target file

file	md5
IERC20.sol	a511a1c838e3382005de7f88d1f97a88
ERC20.sol	e823885885ed86365a87eb5a7f1def3e
fec.sol	90b550910a562d8393604ef8b0c1e98d
IERC20Metadata.sol	c3e9de0745908c51c6cce154eaaa63da
Context.sol	a51a25a407957488d500f69d589fe27b

# **Vulnerability analysis**

# **Vulnerability distribution**

vulnerability level	number
Critical severity	0
High severity	0
Medium severity	0
Low severity	0

# Summary of audit results

Vulnerability	status
Re-Entrancy	safe
Arithmetic Over/Under Flows	safe
Unexpected Blockchain Currency	safe
Delegatecall	safe
Default Visibilities	safe
Entropy Illusion	safe
External Contract Referencing	safe

Vulnerability	status
Short Address/Parameter Attack	safe
Unchecked CALL Return Values	safe
Race Conditions / Front Running	safe
Denial Of Service (DOS)	safe
Block Timestamp Manipulation	safe
Constructors with Care	safe
Unintialised Storage Pointers	safe
Floating Points and Numerical Precision	safe
tx.origin Authentication	safe
Permission restrictions	safe

# **Contract file**

#### IERC20.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
 * @dev Interface of the ERC20 standard as defined in the EIP.
interface IERC20 {
     * @dev Returns the amount of tokens in existence.
    function totalSupply() external view returns (uint256);
     * @dev Returns the amount of tokens owned by `account`.
    function balanceOf(address account) external view returns (uint256);
     * @dev Moves `amount` tokens from the caller's account to `recipient`.
     * Returns a boolean value indicating whether the operation succeeded.
     * Emits a {Transfer} event.
    function transfer(address recipient, uint256 amount) external returns (bool);
     * @dev Returns the remaining number of tokens that `spender` will be
     * allowed to spend on behalf of `owner` through {transferFrom}. This is
     * zero by default.
     * This value changes when {approve} or {transferFrom} are called.
    function allowance (address owner, address spender) external view returns (uint256);
```

```
* @dev Sets `amount` as the allowance of `spender` over the caller's tokens.
     * Returns a boolean value indicating whether the operation succeeded.
     * IMPORTANT: Beware that changing an allowance with this method brings the risk
     ^{\star} that someone may use both the old and the new allowance by unfortunate
     * transaction ordering. One possible solution to mitigate this race
     * condition is to first reduce the spender's allowance to 0 and set the
     * desired value afterwards:
     * https://qithub.com/ethereum/EIPs/issues/20#issuecomment-263524729
     * Emits an {Approval} event.
    function approve(address spender, uint256 amount) external returns (bool);
     * @dev Moves `amount` tokens from `sender` to `recipient` using the
     * allowance mechanism. `amount` is then deducted from the caller's
     * allowance.
     * Returns a boolean value indicating whether the operation succeeded.
     * Emits a {Transfer} event.
    function transferFrom(
       address sender,
        address recipient,
       uint256 amount
    ) external returns (bool);
     * @dev Emitted when `value` tokens are moved from one account (`from`) to
    * another (`to`).
     * Note that `value` may be zero
    event Transfer(address indexed from, address indexed to, uint256 value);
     * @dev Emitted when the allowance of a
                                             `spender` for an `owner` is set by
                             value is the new allowance.
     * a call to {approve}.
    event Approval(address indexed owner, address indexed spender, uint256 value);
}
```

## ERC20.sol

```
// FECtoken project
pragma solidity ^0.8.0;

import "./IERC20.sol";
import "./IERC20Metadata.sol";
import "./Context.sol";

/**

* @dev Implementation of the {IERC20} interface.

*

* This implementation is agnostic to the way tokens are created. This means

* that a supply mechanism has to be added in a derived contract using {_mint}.

* For a generic mechanism see {ERC20PresetMinterPauser}.

*

* TIP: For a detailed writeup see our guide

* https://forum.zeppelin.solutions/t/how-to-implement-erc20-supply-mechanisms/226[How

* to implement supply mechanisms].
```

```
* We have followed general OpenZeppelin guidelines: functions revert instead
 * of returning `false` on failure. This behavior is nonetheless conventional
 ^{\star} and does not conflict with the expectations of ERC20 applications.
* Additionally, an {Approval} event is emitted on calls to {transferFrom}.
 * This allows applications to reconstruct the allowance for all accounts just
* by listening to said events. Other implementations of the EIP may not emit
 * these events, as it isn't required by the specification.
* Finally, the non-standard {decreaseAllowance} and {increaseAllowance}
* functions have been added to mitigate the well-known issues around setting
* allowances. See {IERC20-approve}.
contract ERC20 is Context, IERC20, IERC20Metadata {
   mapping(address => uint256) private _balances;
   mapping(address => mapping(address => uint256)) private _allowances;
   //授权
   uint256 private _totalSupply;
   //代币总量
   string public _name;
    //代币名称 简称
   string public _symbol;
    * @dev Sets the values for {name} and {symbol}
    * The default value of {decimals} is 18. To select
                                                        a different value for
     * {decimals} you should overload it.
     * All two of these values are immutable: they
                                                   can only be set once during
     * construction.
    constructor(string memory name_, string memory symbol_) {
        _name = name_;
        _symbol = symbol_
    }
     * @dev Returns the name of the token.
   function name() public view virtual override returns (string memory) {
       return _name;
   }
    * @dev Returns the symbol of the token, usually a shorter version of the
    * name.
   function symbol() public view virtual override returns (string memory) {
       return _symbol;
   }
     * @dev Returns the number of decimals used to get its user representation.
     * For example, if `decimals` equals `2`, a balance of `505` tokens should
     * be displayed to a user as `5,05` (`505 / 10 ** 2`).
     * Tokens usually opt for a value of 18, imitating the relationship between
     * Ether and Wei. This is the value {ERC20} uses, unless this function is
     * overridden:
     * NOTE: This information is only used for _display_ purposes: it in
```

```
* no way affects any of the arithmetic of the contract, including
 * {IERC20-balanceOf} and {IERC20-transfer}.
function decimals() public view virtual override returns (uint8) {
    return 18;
}
* @dev See {IERC20-totalSupply}.
function totalSupply() public view virtual override returns (uint256) {
   return _totalSupply;
}
 * @dev See {IERC20-balance0f}.
function balanceOf(address account) public view virtual override returns (uint256) {
   return _balances[account];
}
* @dev See {IERC20-transfer}.
 * Requirements:
 * - `recipient` cannot be the zero address.
 * - the caller must have a balance of at least `amount
function transfer(address recipient, uint256 amount) public virtual override returns (bool) {
    _transfer(_msgSender(), recipient, amount);
    return true;
}
/**
 * @dev See {IERC20-allowance}
function allowance(address owner, address spender) public view virtual override returns (uint256)
    return _allowances[owner][spender];
}
* @dev See {IERC20-approve}
 * Requirements:
 * - `spender` cannot be the zero address.
function approve(address spender, uint256 amount) public virtual override returns (bool) {
    _approve(_msgSender(), spender, amount);
    return true;
}
 * @dev See {IERC20-transferFrom}.
 * Emits an {Approval} event indicating the updated allowance. This is not
 * required by the EIP. See the note at the beginning of {ERC20}.
 * Requirements:
 * - `sender` and `recipient` cannot be the zero address.
    `sender` must have a balance of at least `amount`.
 * - the caller must have allowance for ``sender``'s tokens of at least
 * `amount`.
```

```
function transferFrom(
    address sender,
    address recipient,
    uint256 amount
) public virtual override returns (bool) {
    _transfer(sender, recipient, amount);
    uint256 currentAllowance = _allowances[sender][_msgSender()];
    require(currentAllowance >= amount, "ERC20: transfer amount exceeds allowance");
    unchecked {
        _approve(sender, _msgSender(), currentAllowance - amount);
    return true;
}
 * @dev Atomically increases the allowance granted to `spender` by the caller.
 * This is an alternative to {approve} that can be used as a mitigation for
 * problems described in {IERC20-approve}.
 * Emits an {Approval} event indicating the updated allowance
 * Requirements:
 * - `spender` cannot be the zero address.
function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
    return true;
}
 * @dev Atomically decreases the allowance granted to `spender` by the caller.
 * This is an alternative to {approve} that can be used as a mitigation for
 * problems described in {IERC20-approve}
 * Emits an {Approval} event indicating the updated allowance.
 * Requirements:
 * - `spender` cannot be the zero address.
 * - `spender` must have allowance for the caller of at least
 * `subtractedValue`.
function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool
    uint256 currentAllowance = _allowances[_msgSender()][spender];
    require(currentAllowance >= subtractedValue, "ERC20: decreased allowance below zero");
    unchecked {
        _approve(_msgSender(), spender, currentAllowance - subtractedValue);
    return true;
}
 * @dev Moves `amount` of tokens from `sender` to `recipient`.
 * This internal function is equivalent to {transfer}, and can be used to
 * e.g. implement automatic token fees, slashing mechanisms, etc.
 * Emits a {Transfer} event.
 * Requirements:
```

```
* - `sender` cannot be the zero address.
     `recipient` cannot be the zero address.
     `sender` must have a balance of at least `amount`.
function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal virtual {
    require(sender != address(0), "ERC20: transfer from the zero address");
    require(recipient != address(0), "ERC20: transfer to the zero address");
    _beforeTokenTransfer(sender, recipient, amount);
    uint256 senderBalance = _balances[sender];
    require(senderBalance >= amount, "ERC20: transfer amount exceeds balance");
    unchecked {
        _balances[sender] = senderBalance - amount;
    _balances[recipient] += amount;
    emit Transfer(sender, recipient, amount);
    _afterTokenTransfer(sender, recipient, amount);
}
/** @dev Creates `amount` tokens and assigns them to `account
                                                                 increasing
 * the total supply.
 * Emits a {Transfer} event with `from` set to the zero address.
 * Requirements:
 * - `account` cannot be the zero address
function _mint(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: mint to the zero address");
    _beforeTokenTransfer(address(0), account, amount);
    _totalSupply += amount;
    _balances[account] += amount;
    emit Transfer(address(0), account, amount);
    _afterTokenTransfer(address(0), account, amount);
}
 * @dev Destroys `amount` tokens from `account`, reducing the
 * total supply.
 * Emits a {Transfer} event with `to` set to the zero address.
 * Requirements:
 * - `account` cannot be the zero address.
 * - `account` must have at least `amount` tokens.
function _burn(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: burn from the zero address");
    _beforeTokenTransfer(account, address(0), amount);
    uint256 accountBalance = _balances[account];
    require(accountBalance >= amount, "ERC20: burn amount exceeds balance");
```

```
unchecked {
        _balances[account] = accountBalance - amount;
    _totalSupply -= amount;
    emit Transfer(account, address(0), amount);
    _afterTokenTransfer(account, address(0), amount);
}
 * @dev Sets `amount` as the allowance of `spender` over the `owner` s tokens.
 * This internal function is equivalent to `approve`, and can be used to
 * e.g. set automatic allowances for certain subsystems, etc.
 * Emits an {Approval} event.
 * Requirements:
 * - `owner` cannot be the zero address.
     `spender` cannot be the zero address.
function _approve(
    address owner,
    address spender,
    uint256 amount
) internal virtual {
    require(owner != address(0), "ERC20: approve from the zero address");
    require(spender != address(0), "ERC20: approve to the zero address");
    _allowances[owner][spender] = amount;
    emit Approval(owner, spender, amount);
}
                                         transfer of tokens. This includes
 * @dev Hook that is called before any
 * minting and burning.
 * Calling conditions:
 * - when `from` and `to`
                           are both non-zero, `amount` of ``from``'s tokens
 * will be transferred to `to
 * - when `from` is zero, `amount` tokens will be minted for `to`.* - when `to` is zero, `amount` of ``from``'s tokens will be burned.
 * - `from` and `to` are never both zero.
 * To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks]
function _beforeTokenTransfer(
    address from,
    address to,
    uint256 amount
) internal virtual {}
 * @dev Hook that is called after any transfer of tokens. This includes
 * minting and burning.
 * Calling conditions:
 * - when `from` and `to` are both non-zero, `amount` of ``from``'s tokens
 * has been transferred to `to`.
  - when `from` is zero, `amount` tokens have been minted for `to`.
 * - when `to` is zero, `amount` of ``from``'s tokens have been burned.
 * - `from` and `to` are never both zero.
```

```
*

* To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks]

*/

function _afterTokenTransfer(
    address from,
    address to,
    uint256 amount
) internal virtual {}

}
```

#### fec.sol

```
pragma solidity ^0.8.0;
import "./ERC20.sol";

contract FECToken is ERC20{

    string public Fecname = "FECToken";
    string public Fecsymbol = "FEC";
    uint8 public dec = 18;
    uint public INITIAL_SUPPLY = 100000000000;
    uint256 public _totalSupply = INITIAL_SUPPLY * (10**uint(dec));

    constructor () ERC20(Fecname, Fecsymbol) public{
    _mint(msg.sender, _totalSupply);
    }
}
```

#### IERC20Metadata.sol

```
pragma solidity ^0.8.0;
import "./IERC20.sol";

/**

* @dev Interface for the optional metadata functions from the ERC20 standard.

*

_Available since v4.1._

*/
interface IERC20Metadata is IERC20 {

/**

* @dev Returns the name of the token.

*/
function name() external view returns (string memory);

/**

* @dev Returns the symbol of the token.

*/
function symbol() external view returns (string memory);

/**

* @dev Returns the decimals places of the token.

*/
function decimals() external view returns (uint8);
}
```

#### Context.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

/*
    * @dev Provides information about the current execution context, including the
    * sender of the transaction and its data. While these are generally available
    * via msg.sender and msg.data, they should not be accessed in such a direct
    * manner, since when dealing with meta-transactions the account sending and
    * paying for execution may not be the actual sender (as far as an application
    * is concerned).
    *
    * This contract is only required for intermediate, library-like contracts.
    */
abstract contract Context {
    function _msgSender() internal view virtual returns (address) {
        return msg.sender;
    }

    function _msgData() internal view virtual returns (bytes calldata) {
        return msg.data;
    }
}
```

# Analysis of audit results

# **Re-Entrancy**

#### • Description:

One of the features of smart contracts is the ability to call and utilise code of other external contracts. Contracts also typically handle Blockchain Currency, and as such often send Blockchain Currency to various external user addresses. The operation of calling external contracts, or sending Blockchain Currency to an address, requires the contract to submit an external call. These external calls can be hijacked by attackers whereby they force the contract to execute further code (i.e. through a fallback function), including calls back into itself. Thus the code execution "re-enters" the contract. Attacks of this kind were used in the infamous DAO hack.

Detection results:

```
PASSED!
```

· Security suggestion:

no.

# **Arithmetic Over/Under Flows**

#### • Description:

The Virtual Machine (EVM) specifies fixed-size data types for integers. This means that an integer variable, only has a certain range of numbers it can represent. A uint8 for example, can only store numbers in the range [0,255]. Trying to store 256 into a uint8 will result in 0. If care is not taken, variables in Solidity can be exploited if user input is unchecked and calculations are performed which result in numbers that lie outside the range of the data type that stores them.

· Detection results:

```
PASSED!
```

• Security suggestion:

no.

# **Unexpected Blockchain Currency**

#### · Description:

Typically when Blockchain Currency is sent to a contract, it must execute either the fallback function, or another function described in the contract. There are two exceptions to this, where Blockchain Currency can exist in a contract without having executed any code. Contracts which rely on code execution for every Blockchain Currency sent to the contract can be vulnerable to attacks where Blockchain Currency is forcibly sent to a contract.

• Detection results:

PASSED!

• Security suggestion: no.

# Delegatecall

#### • Description:

The CALL and DELEGATECALL opcodes are useful in allowing developers to modularise their code. Standard external message calls to contracts are handled by the CALL opcode whereby code is run in the context of the external contract/function. The DELEGATECALL opcode is identical to the standard message call, except that the code executed at the targeted address is run in the context of the calling contract along with the fact that msg.sender and msg.value remain unchanged. This feature enables the implementation of libraries whereby developers can create reusable code for future contracts.

· Detection results:

PASSED!

· Security suggestion: no.

#### **Default Visibilities**

## • Description:

Functions in Solidity have visibility specifiers which dictate how functions are allowed to be called. The visibility determines whBlockchain Currency a function can be called externally by users, by other derived contracts, only internally or only externally. There are four visibility specifiers, which are described in detail in the Solidity Docs. Functions default to public allowing users to call them externally. Incorrect use of visibility specifiers can lead to some devestating vulernabilities in smart contracts as will be discussed in this section.

• Detection results:

PASSED!

· Security suggestion:

no.

# **Entropy Illusion**

#### • Description:

All transactions on the blockchain are deterministic state transition operations. Meaning that every transaction modifies the global state of the ecosystem and it does so in a calculable way with no uncertainty. This ultimately means that inside the blockchain ecosystem there is no source of entropy or randomness. There is no rand() function in Solidity. Achieving decentralised entropy (randomness) is a well established problem and many ideas have been proposed to address this (see for example, RandDAO or using a chain of Hashes as described by Vitalik in this post).

• Detection results:

PASSED!

· Security suggestion:

no.

# **External Contract Referencing**

#### • Description:

One of the benefits of the global computer is the ability to re-use code and interact with contracts already deployed on the network. As a result, a large number of contracts reference external contracts and in general operation use external message calls to interact with these contracts. These external message calls can mask malicious actors intentions in some non-obvious ways, which we will discuss.

· Detection results:

PASSED!

• Security suggestion:

no.

## **Unsolved TODO comments**

• Description:

Check for Unsolved TODO comments

· Detection results:

PASSED!

· Security suggestion:

no.

# **Short Address/Parameter Attack**

#### • Description:

This attack is not specifically performed on Solidity contracts themselves but on third party applications that may interact with them. I add this attack for completeness and to be aware of how parameters can be manipulated in contracts.

Detection results:

PASSED!

· Security suggestion:

no.

#### **Unchecked CALL Return Values**

#### • Description:

There a number of ways of performing external calls in solidity. Sending Blockchain Currency to external accounts is commonly performed via the transfer() method. However, the send() function can also be used and, for more versatile external calls, the CALL opcode can be directly employed in solidity. The call() and send() functions return a boolean indicating if the call succeeded or failed. Thus these functions have a simple caveat, in that the transaction that executes these functions will not revert if the external call (initialised by call() or send()) fails, rather the call() or send() will simply return false. A common pitfall arises when the return value is not checked, rather the developer expects a revert to occur.

· Detection results:

PASSED!

· Security suggestion:

no.

# Race Conditions / Front Running

#### • Description:

The combination of external calls to other contracts and the multi-user nature of the underlying blockchain gives rise to a variety of potential Solidity pitfalls whereby users race code execution to obtain unexpected states. Re-Entrancy is one example of such a race condition. In this section we will talk more generally about different kinds of race conditions that can occur on the blockchain. There is a variety of good posts on this subject, a few are: Wiki - Safety, DASP - Front-Running and the Consensus - Smart Contract Best Practices.

Detection results:

PASSED!

· Security suggestion:

no.

## **Denial Of Service (DOS)**

#### • Description:

This category is very broad, but fundamentally consists of attacks where users can leave the contract inoperable for a small period of time, or in some cases, permanently. This can trap Blockchain Currency in these contracts forever, as was the case with the Second Parity MultiSig hack

• Detection results:

PASSED!

• Security suggestion:

nο

## **Block Timestamp Manipulation**

#### • Description:

Block timestamps have historically been used for a variety of applications, such as entropy for random numbers (see the Entropy Illusion section for further details), locking funds for periods of time and various state-changing

conditional statements that are time-dependent. Miner's have the ability to adjust timestamps slightly which can prove to be quite dangerous if block timestamps are used incorrectly in smart contracts.

• Detection results:

PASSED!

• Security suggestion:

no.

## **Constructors with Care**

#### • Description:

Constructors are special functions which often perform critical, privileged tasks when initialising contracts. Before solidity v0.4.22 constructors were defined as functions that had the same name as the contract that contained them. Thus, when a contract name gets changed in development, if the constructor name isn't changed, it becomes a normal, callable function. As you can imagine, this can (and has) lead to some interesting contract hacks.

· Detection results:

PASSED!

· Security suggestion:

no.

# **Unintialised Storage Pointers**

## • Description:

The EVM stores data either as storage or as memory. Understanding exactly how this is done and the default types for local variables of functions is highly recommended when developing contracts. This is because it is possible to produce vulnerable contracts by inappropriately intialising variables.

· Detection results:

PASSED!

• Security suggestion:

no.

## **Floating Points and Numerical Precision**

#### • Description:

As of this writing (Solidity v0.4.24), fixed point or floating point numbers are not supported. This means that floating point representations must be made with the integer types in Solidity. This can lead to errors/vulnerabilities if not implemented correctly.

• Detection results:

PASSED!

· Security suggestion:

no.

# tx.origin Authentication

# • Description:

Solidity has a global variable, tx.origin which traverses the entire call stack and returns the address of the account that originally sent the call (or transaction). Using this variable for authentication in smart contracts leaves the contract vulnerable to a phishing-like attack.

• Detection results:

PASSED!

• Security suggestion:

no.

# **Permission restrictions**

# • Description:

Contract managers who can control liquidity or pledge pools, etc., or impose unreasonable restrictions on other

• Detection results:

PASSED!

• Security suggestion:

no.



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