



Smart Contract Security Audit Report



The SlowMist Security Team received the Center Coin team's application for smart contract security audit of the CENT on May 25, 2020. The following are the details and results of this smart contract security audit:

Token name :

CENT

The Contract address :

0x262B6A8B044AB9B7a345353DED8f541c1aC37BD3

Link address :

<https://etherscan.io/address/0x262B6A8B044AB9B7a345353DED8f541c1aC37BD3>

The audit items and results :

(Other unknown security vulnerabilities are not included in the audit responsibility scope)

No.	Audit Items	Audit Subclass	Audit Subclass Result
1	Overflow Audit	-	Passed
2	Race Conditions Audit	-	Passed
3	Authority Control Audit	Permission vulnerability audit	Passed
		Excessive auditing authority	Some Risks
4	Safety Design Audit	Zeppelin module safe use	Passed
		Compiler version security	Passed
		Hard-coded address security	Passed
		Fallback function safe use	Passed
		Show coding security	Passed
		Function return value security	Passed
		Call function security	Passed
5	Denial of Service Audit	-	Passed
6	Gas Optimization Audit	-	Passed
7	Design Logic Audit	-	Passed
8	"False Deposit" vulnerability Audit	-	Passed

9	Malicious Event Log Audit	-	Passed
10	Scoping and Declarations Audit	-	Passed
11	Replay Attack Audit	ECDSA's Signature Replay Audit	Passed
12	Uninitialized Storage Pointers Audit	-	Passed
13	Arithmetic Accuracy Deviation Audit	-	Passed

Audit Result : **Passed(Good)**

Audit Number : 0X002005280001

Audit Date : May 28, 2020

Audit Team : SlowMist Security Team

(**Statement** : SlowMist only issues this report based on the fact that has occurred or existed before the report is issued, and bears the corresponding responsibility in this regard. For the facts occur or exist later after the report, SlowMist cannot judge the security status of its smart contract. SlowMist is not responsible for it. The security audit analysis and other contents of this report are based on the documents and materials provided by the information provider to SlowMist as of the date of this report (referred to as "the provided information"). SlowMist assumes that: there has been no information missing, tampered, deleted, or concealed. If the information provided has been missed, modified, deleted, concealed or reflected and is inconsistent with the actual situation, SlowMist will not bear any responsibility for the resulting loss and adverse effects. SlowMist will not bear any responsibility for the background or other circumstances of the project.)

Summary: This is a token contract that contains the tokenVault section. The total amount of contract tokens can be changed. OpenZeppelin' s SafeMath security module is used, which is a commendable approach. The contract does not have the Overflow and the Race Conditions issue.

During the audit we found some issues:

- 1. The owner can burn any user's tokens through the burn function.**
- 2. The owner can mint unlimited tokens through the mint function.**
- 3. The owner can lock any user's tokens through the lock function.**
- 4. The owner can freeze any user account through the freeze function.**
- 5. The frozen state of [to] was not checked.**

6. The frozen state of [msg.sender] and [to] was not checked.

The source code:

```
/**
 *Submitted for verification at Etherscan.io on 2020-01-10
 */

//SlowMist// The contract does not have the Overflow and the Race Conditions issue

pragma solidity 0.5.8;

// File: node_modules\openzeppelin-solidity\contracts\token\ERC20\ERC20.sol

/**
 * @dev Interface of the ERC20 standard as defined in the EIP. Does not include
 * the optional functions; to access them see `ERC20Detailed`.
 */
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.  
 *  
 * > Beware that changing an allowance with this method brings the risk  
 * 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://github.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  
 * a call to `approve`. `value` is the new allowance.  
 */
```

```
event Approval(address indexed owner, address indexed spender, uint256 value);  
}
```

```
// File: node_modules\openzeppelin-solidity\contracts\math\SafeMath.sol
```

```
/**
```

```
 * @dev Wrappers over Solidity's arithmetic operations with added overflow  
 * checks.
```

```
 *
```

```
 * Arithmetic operations in Solidity wrap on overflow. This can easily result  
 * in bugs, because programmers usually assume that an overflow raises an  
 * error, which is the standard behavior in high level programming languages.  
 * `SafeMath` restores this intuition by reverting the transaction when an  
 * operation overflows.
```

```
 *
```

```
 * Using this library instead of the unchecked operations eliminates an entire  
 * class of bugs, so it's recommended to use it always.
```

```
 */
```

//SlowMist// OpenZeppelin ' s SafeMath security Module is used, which is a recommend approach

```
library SafeMath {
```

```
    /**
```

```
     * @dev Returns the addition of two unsigned integers, reverting on  
     * overflow.
```

```
     *
```

```
     * Counterpart to Solidity's `+` operator.
```

```
     *
```

```
     * Requirements:
```

```
     * - Addition cannot overflow.
```

```
    */
```

```
    function add(uint256 a, uint256 b) internal pure returns (uint256) {
```

```
        uint256 c = a + b;
```

```
        require(c >= a, "SafeMath: addition overflow");
```

```
        return c;
```

```
    }
```

```
    /**
```

```
     * @dev Returns the subtraction of two unsigned integers, reverting on  
     * overflow (when the result is negative).
```

```
*  
* Counterpart to Solidity's '-' operator.  
*  
* Requirements:  
* - Subtraction cannot overflow.  
*/  
  
function sub(uint256 a, uint256 b) internal pure returns (uint256) {  
    require(b <= a, "SafeMath: subtraction overflow");  
    uint256 c = a - b;  
  
    return c;  
}  
  
/**  
 * @dev Returns the multiplication of two unsigned integers, reverting on  
 * overflow.  
 *  
 * Counterpart to Solidity's '*' operator.  
 *  
 * Requirements:  
 * - Multiplication cannot overflow.  
 */  
  
function mul(uint256 a, uint256 b) internal pure returns (uint256) {  
    // Gas optimization: this is cheaper than requiring 'a' not being zero, but the  
    // benefit is lost if 'b' is also tested.  
    // See: https://github.com/OpenZeppelin/openzeppelin-solidity/pull/522  
    if (a == 0) {  
        return 0;  
    }  
  
    uint256 c = a * b;  
    require(c / a == b, "SafeMath: multiplication overflow");  
  
    return c;  
}  
  
/**  
 * @dev Returns the integer division of two unsigned integers. Reverts on  
 * division by zero. The result is rounded towards zero.  
 *  
 * Counterpart to Solidity's '/' operator. Note: this function uses a  
 * 'revert' opcode (which leaves remaining gas untouched) while Solidity
```

```
* uses an invalid opcode to revert (consuming all remaining gas).
*
* Requirements:
* - The divisor cannot be zero.
*/
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    // Solidity only automatically asserts when dividing by 0
    require(b > 0, "SafeMath: division by zero");
    uint256 c = a / b;
    // assert(a == b * c + a % b); // There is no case in which this doesn't hold

    return c;
}

/**
 * @dev Returns the remainder of dividing two unsigned integers. (unsigned integer modulo),
 * Reverts when dividing by zero.
 *
 * Counterpart to Solidity's `%` operator. This function uses a `revert`
 * opcode (which leaves remaining gas untouched) while Solidity uses an
 * invalid opcode to revert (consuming all remaining gas).
 *
 * Requirements:
 * - The divisor cannot be zero.
 */
function mod(uint256 a, uint256 b) internal pure returns (uint256) {
    require(b != 0, "SafeMath: modulo by zero");
    return a % b;
}
}

// File: node_modules\openzeppelin-solidity\contracts\token\ERC20\ERC20.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 `ERC20Mintable`.
 *
 * *For a detailed writeup see our guide [How to implement supply
 * mechanisms](https://forum.zeppelin.solutions/t/how-to-implement-erc20-supply-mechanisms/226).*
```



```
*  
* We have followed general OpenZeppelin guidelines: functions revert instead  
* of returning `false` on failure. This behavior is nonetheless conventional  
* 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 IERC20 {  
    using SafeMath for uint256;  
  
    mapping (address => uint256) internal _balances;  
  
    mapping (address => mapping (address => uint256)) private _allowances;  
  
    uint256 private _totalSupply;  
  
    /**  
     * @dev See `IERC20.totalSupply`.  
     */  
    function totalSupply() public view returns (uint256) {  
        return _totalSupply;  
    }  
  
    /**  
     * @dev See `IERC20.balanceOf`.  
     */  
    function balanceOf(address account) public view 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 returns (bool) {
    _transfer(msg.sender, recipient, amount);

    return true; //SlowMist// The return value conforms to the EIP20 specification
}

/**
 * @dev See `IERC20.allowance`.
 */
function allowance(address owner, address spender) public view returns (uint256) {
    return _allowances[owner][spender];
}

/**
 * @dev See `IERC20.approve`.
 *
 * Requirements:
 *
 * - `spender` cannot be the zero address.
 */
function approve(address spender, uint256 value) public returns (bool) {
    _approve(msg.sender, spender, value);

    return true; //SlowMist// The return value conforms to the EIP20 specification
}

/**
 * @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 `value`.
 * - the caller must have allowance for `sender`'s tokens of at least
 *   `amount`.
 */
function transferFrom(address sender, address recipient, uint256 amount) public returns (bool) {
```

```
_transfer(sender, recipient, amount);
_approve(sender, msg.sender, _allowances[sender][msg.sender].sub(amount));

return true; //SlowMist// The return value conforms to the EIP20 specification
}

/**
 * @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 returns (bool) {
    _approve(msg.sender, spender, _allowances[msg.sender][spender].add(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 returns (bool) {
    _approve(msg.sender, spender, _allowances[msg.sender][spender].sub(subtractedValue));
    return true;
}
```

```
/**
 * @dev Moves tokens `amount` from `sender` to `recipient`.
 *
 * This is 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 {
    require(sender != address(0), "ERC20: transfer from the zero address");

    require(recipient != address(0), "ERC20: transfer to the zero address"); //SlowMist// This kind of check is
```

very good, avoiding user mistake leading to the loss of token during transfer

```
    _balances[sender] = _balances[sender].sub(amount);
    _balances[recipient] = _balances[recipient].add(amount);
    emit Transfer(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
 *
 * - `to` cannot be the zero address.
 */
function _mint(address account, uint256 amount) internal {
    require(account != address(0), "ERC20: mint to the zero address");

    _totalSupply = _totalSupply.add(amount);
    _balances[account] = _balances[account].add(amount);
    emit Transfer(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 value) internal {
    require(account != address(0), "ERC20: burn from the zero address");

    _totalSupply = _totalSupply.sub(value);
    _balances[account] = _balances[account].sub(value);
    emit Transfer(account, address(0), value);
}
```

```
/**
 * @dev Sets `amount` as the allowance of `spender` over the `owner`'s tokens.
 *
 * This is 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 value) internal {
    require(owner != address(0), "ERC20: approve from the zero address");

    require(spender != address(0), "ERC20: approve to the zero address"); //SlowMist// This kind of check is
```

very good, avoiding user mistake leading to approve errors

```
_allowances[owner][spender] = value;
emit Approval(owner, spender, value);
```

```
}

/**
 * @dev Destroys `amount` tokens from `account`. `amount` is then deducted
 * from the caller's allowance.
 *
 * See `_burn` and `_approve`.
 */
function _burnFrom(address account, uint256 amount) internal {
    _burn(account, amount);
    _approve(account, msg.sender, _allowances[account][msg.sender].sub(amount));
}
}

// File: contracts\CenterCoin.sol

contract CenterCoin is ERC20 {
    string public constant name = "Center Coin";
    string public constant symbol = "CENT";
    uint8 public constant decimals = 18;
    uint256 public constant initialSupply = 5000000000 * (10 ** uint256(decimals));

    constructor() public {
        super._mint(msg.sender, initialSupply);
        owner = msg.sender;
    }

    //ownership
    address public owner;

    event OwnershipRenounced(address indexed previousOwner);
    event OwnershipTransferred(
        address indexed previousOwner,
        address indexed newOwner
    );

    modifier onlyOwner() {
        require(msg.sender == owner, "Not owner");
        _;
    }
}

/**
```

```
* @dev Allows the current owner to relinquish control of the contract.
* @notice Renouncing to ownership will leave the contract without an owner.
* It will not be possible to call the functions with the `onlyOwner`
* modifier anymore.
*/

function renounceOwnership() public onlyOwner {
    emit OwnershipRenounced(owner);
    owner = address(0);
}

/**
* @dev Allows the current owner to transfer control of the contract to a newOwner.
* @param _newOwner The address to transfer ownership to.
*/

function transferOwnership(address _newOwner) public onlyOwner {
    _transferOwnership(_newOwner);
}

/**
* @dev Transfers control of the contract to a newOwner.
* @param _newOwner The address to transfer ownership to.
*/

function _transferOwnership(address _newOwner) internal {

    require(_newOwner != address(0), "Already owner"); //SlowMist// This check is quite good in
```

avoiding losing control of the contract caused by user mistakes

```
    emit OwnershipTransferred(owner, _newOwner);
    owner = _newOwner;
}

//pausable
event Pause(uint256 _value);
event Unpause(uint256 _value);

bool public paused = false;

/**
* @dev Modifier to make a function callable only when the contract is not paused.
*/

modifier whenNotPaused() {
    require(!paused, "Paused by owner");
```

```
    _;  
}  
  
/**  
 * @dev Modifier to make a function callable only when the contract is paused.  
 */  
modifier whenPaused() {  
    require(paused, "Not paused now");  
    _;  
}
```

```
/**  
 * @dev called by the owner to pause, triggers stopped state  
 */
```

//SlowMist// Suspending all transactions upon major abnormalities is a recommended

approach

```
function pause(uint256 _value) public onlyOwner whenNotPaused {  
    paused = true;  
    emit Pause(_value);  
}
```

```
/**  
 * @dev called by the owner to unpause, returns to normal state  
 */
```

```
function unpause(uint256 _value) public onlyOwner whenPaused {  
    paused = false;  
    emit Unpause(_value);  
}
```

//freezable

```
event Frozen(address target);  
event Unfrozen(address target);
```

```
mapping(address => bool) internal freezes;
```

```
modifier whenNotFrozen() {  
    require(!freezes[msg.sender], "Sender account is locked.");  
    _;  
}
```



```
function freeze(address _target) public onlyOwner {  
    freezes[_target] = true;  
    emit Frozen(_target);  
}
```

```
function unfreeze(address _target) public onlyOwner {  
    freezes[_target] = false;  
    emit Unfrozen(_target);  
}
```

```
function isFrozen(address _target) public view returns (bool) {  
    return freezes[_target];  
}
```

//SlowMist// The frozen state of [to] was not checked

//SlowMist// After communication with the project party, the freeze function is only used

to prevent the transfer of tokens from a specific account

```
function transfer(  
    address _to,  
    uint256 _value  
)  
    public  
    whenNotFrozen  
    whenNotPaused  
    returns (bool)  
{  
    releaseLock(msg.sender);  
    return super.transfer(_to, _value);  
}
```

//SlowMist// The frozen state of [msg.sender] and [to] was not checked

//SlowMist// After communication with the project party, the freeze function is only used

to prevent the transfer of tokens from a specific account

```
function transferFrom(  
    address _from,  
    address _to,  
    uint256 _value  
)
```

```
public
whenNotPaused
returns (bool)
{
    require(!freezes[_from], "From account is locked.");
    releaseLock(_from);
    return super.transferFrom(_from, _to, _value);
}

//mintable
event Mint(address indexed to, uint256 amount);

function mint(
    address _to,
    uint256 _amount
)
public
onlyOwner
returns (bool)
{
    super._mint(_to, _amount);
    emit Mint(_to, _amount);
    return true;
}

//burnable
event Burn(address indexed burner, uint256 value);

function burn(address _who, uint256 _value) public onlyOwner {
    require(_value <= super.balanceOf(_who), "Balance is too small.");

    _burn(_who, _value);
    emit Burn(_who, _value);
}

//lockable
struct LockInfo {
    uint256 releaseTime;
    uint256 balance;
}
mapping(address => LockInfo[]) internal lockInfo;
```

```
event Lock(address indexed holder, uint256 value, uint256 releaseTime);
event Unlock(address indexed holder, uint256 value);

function balanceOf(address _holder) public view returns (uint256 balance) {
    uint256 lockedBalance = 0;
    for(uint256 i = 0; i < lockInfo[_holder].length ; i++) {
        lockedBalance = lockedBalance.add(lockInfo[_holder][i].balance);
    }
    return super.balanceOf(_holder).add(lockedBalance);
}

function releaseLock(address _holder) internal {

    for(uint256 i = 0; i < lockInfo[_holder].length ; i++) {
        if (lockInfo[_holder][i].releaseTime <= now) {
            _balances[_holder] = _balances[_holder].add(lockInfo[_holder][i].balance);
            emit Unlock(_holder, lockInfo[_holder][i].balance);
            lockInfo[_holder][i].balance = 0;

            if (i != lockInfo[_holder].length - 1) {
                lockInfo[_holder][i] = lockInfo[_holder][lockInfo[_holder].length - 1];
                i--;
            }
            lockInfo[_holder].length--;
        }
    }
}

function lockCount(address _holder) public view returns (uint256) {
    return lockInfo[_holder].length;
}

function lockState(address _holder, uint256 _idx) public view returns (uint256, uint256) {
    return (lockInfo[_holder][_idx].releaseTime, lockInfo[_holder][_idx].balance);
}

function lock(address _holder, uint256 _amount, uint256 _releaseTime) public onlyOwner {
    require(super.balanceOf(_holder) >= _amount, "Balance is too small.");
    _balances[_holder] = _balances[_holder].sub(_amount);
    lockInfo[_holder].push(
        LockInfo(_releaseTime, _amount)
    );
    emit Lock(_holder, _amount, _releaseTime);
}
```

```
}

function lockAfter(address _holder, uint256 _amount, uint256 _afterTime) public onlyOwner {
    require(super.balanceOf(_holder) >= _amount, "Balance is too small.");
    _balances[_holder] = _balances[_holder].sub(_amount);
    lockInfo[_holder].push(
        LockInfo(now + _afterTime, _amount)
    );
    emit Lock(_holder, _amount, now + _afterTime);
}

function unlock(address _holder, uint256 i) public onlyOwner {
    require(i < lockInfo[_holder].length, "No lock information.");

    _balances[_holder] = _balances[_holder].add(lockInfo[_holder][i].balance);
    emit Unlock(_holder, lockInfo[_holder][i].balance);
    lockInfo[_holder][i].balance = 0;

    if (i != lockInfo[_holder].length - 1) {
        lockInfo[_holder][i] = lockInfo[_holder][lockInfo[_holder].length - 1];
    }
    lockInfo[_holder].length--;
}

function transferWithLock(address _to, uint256 _value, uint256 _releaseTime) public onlyOwner returns (bool) {
    require(_to != address(0), "wrong address");
    require(_value <= super.balanceOf(owner), "Not enough balance");

    _balances[owner] = _balances[owner].sub(_value);
    lockInfo[_to].push(
        LockInfo(_releaseTime, _value)
    );
    emit Transfer(owner, _to, _value);
    emit Lock(_to, _value, _releaseTime);

    return true;
}

function transferWithLockAfter(address _to, uint256 _value, uint256 _afterTime) public onlyOwner returns (bool) {
    require(_to != address(0), "wrong address");
    require(_value <= super.balanceOf(owner), "Not enough balance");
```

```
_balances[owner] = _balances[owner].sub(_value);
lockInfo[_to].push(
    LockInfo(now + _afterTime, _value)
);
emit Transfer(owner, _to, _value);
emit Lock(_to, _value, now + _afterTime);

return true;
}

function currentTime() public view returns (uint256) {
    return now;
}

function afterTime(uint256 _value) public view returns (uint256) {
    return now + _value;
}
}
```



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