

Corion - CorionX Token

Quality assurance

Table of content

Table of content	1
Introduction	2
Code reuse	2
Unit test	2
Formal Code verification	2
Application	2
Smart Check	3
Using the approve function of the ERC-20 standard	3
No payable fallback function	3
Reentrancy	4
Visibility	5
Delivery test	6
Test parameters	6
Checks after first deployment ethereum explorer	7
Transfer into a new account	10
Transferring more than balance: error expected	13
Transferring the amount back	15
Burn token with main account	18
Burn from another account	19
Transfer from without approvement	20
Approve transfer into test account	22
Increase approvement	24
Decrease approval	26
Transfer from bigger than allowed	27
Transfer from allowed amount	29

Introduction

This documentation summarizes some of the quality assurance metrics and measures that were taken into consideration during the development and deployment of the token.

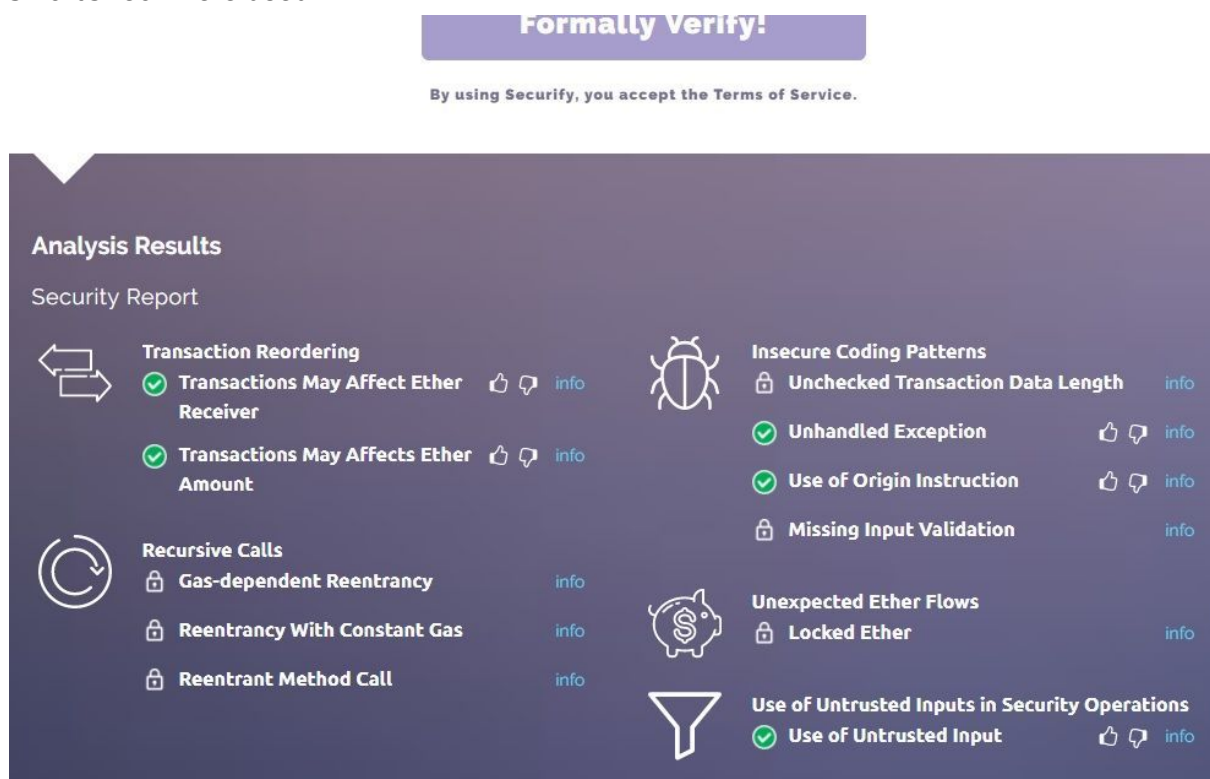
Code reuse

For most of the basic libraries standard libraries of the OpenZeppelin project were used.

Formal Code verification

Application

For formal source code verification two experimental tools, the free version of security and SmartCheck were used.



Securify shows all green from the possible checks:

Smart Check

Smart Check identifies the following sev 1 - 4 findings:

Using the approve function of the ERC-20 standard

it is really an approve function of an ERC-20 token

The screenshot shows the SmartCheck Beta web interface. The top navigation bar includes 'SmartCheck Beta', 'Scan', 'KnowledgeBase', and a button 'Audit your contract with SmartDec'. The main content area displays a scan result for a file named 'codeblock.sol' (lines 170-174) with a severity of 2 and pattern ID 'af782c'. A green checkmark and a red X icon are shown next to the file name. Below the scan result, there are three dropdown menus: 'No payable fallback function', 'Reentrancy', and 'Implicit visibility level'. To the right of the scan result, a code block titled 'codeblock.sol' shows the following Solidity code:

```
166 * https://github.com/ethereum/EIPs/issues/20#issuecomment-2635247
167 * @param _spender The address which will spend the funds.
168 * @param _value The amount of tokens to be spent.
169 */
170 function approve(address _spender, uint256 _value) public returns
171     allowed[msg.sender][_spender] = _value;
172     Approval(msg.sender, _spender, _value);
173     return true;
174 }
175
176 /**
177 * @dev Function to check the amount of tokens that an owner allow
178 * @param _owner address The address which owns the funds.
179 * @param _spender address The address which will spend the funds.
180 * @return A uint256 specifying the amount of tokens still availab
181 */
182 function allowance(address _owner, address _spender) public view r
183     return allowed[_owner][_spender];
184 }
```

Using the approve function of the ERC-20 standard

The approve function of ERC-20 might lead to vulnerabilities.

Recommendation

Example

Links

Only use the approve function of the ERC-20 standard to change allowed amount to 0 or from 0 (wait till transaction is mined and approved).

No payable fallback function

the token is not planned to contain payment

SmartCheck Beta

Scan

KnowledgeBase

Audit your contract with SmartDec

Using the `approve` function of the ERC-20 standard

No payable fallback function

File: `codeblock.sol`
Lines: 45-75
Severity: 1
Pattern id: 70ac56

File: `codeblock.sol`
Lines: 30-35
Severity: 1
Pattern id: 70ac56

File: `codeblock.sol`
Lines: 77-95
Severity: 1
Pattern id: 70ac56

File: `codeblock.sol`
Lines: 137-223
Severity: 1

Reentrancy

Implicit visibility level

codeblock.sol

```

40 function approve(address spender, uint256 value) public returns (bool)
41 {
42     event Approval(address indexed owner, address indexed spender, uint256 value);
43 }
44
45 contract BasicToken is ERC20Basic {
46     using SafeMath for uint256;
47
48     mapping(address => uint256) balances;
49
50     /**
51      * @dev transfer token for a specified address
52      * @param _to The address to transfer to.
53      * @param _value The amount to be transferred.
54      */
55     function transfer(address _to, uint256 _value) public returns (bool) {
56         require(_to != address(0));
57         require(_value <= balances[msg.sender]);
58
59         // SafeMath.sub will throw if there is not enough balance.

```

No payable fallback function

The contract does not have `payable` fallback. All attempts to `transfer` or `send` ether to this contract will be reverted.

Recommendation

Example

Links

Implement `payable` fallback, if the contract should accept payments via `transfer` or `send`.

Reentrancy

Some parts of the code might be vulnerable to special reentrancy attacks. As the indicated code fragments are part of the OpenZeppelin project and the indicated severity is only 3, we consider the risk as low.

SmartCheck Beta

Scan

KnowledgeBase

Audit your contract with SmartDec

Using the `approve` function of the ERC-20 standard

No payable fallback function

Reentrancy

File: `codeblock.sol`

Lines: 154-154

Severity: 3

Pattern id: 252f1c

✓

✗

File: `codeblock.sol`

Lines: 92-92

Severity: 3

Pattern id: 252f1c

✓

✗

File: `codeblock.sol`

Lines: 155-155

Severity: 3

Pattern id: 252f1c

✓

✗

File: `codeblock.sol`

Lines: 91-91

Severity: 3

Pattern id: 252f1c

✓

✗

codeblock.sol

```

149 require(!_to || _to == address(0));
150 require(_value <= balances[_from]);
151 require(_value <= allowed[_from][msg.sender]);
152
153 balances[_from] = balances[_from].sub(_value);
154 balances[_to] = balances[_to].add(_value);
155 allowed[_from][msg.sender] = allowed[_from][msg.sender].sub(_value);
156 Transfer(_from, _to, _value);
157 return true;
158 }
159
160 /**
161  * @dev Approve the passed address to spend the specified amount of
162  *
163  * Beware that changing an allowance with this method brings the risk
164  * and the new allowance by unfortunate transaction ordering. One
165  * race condition is to first reduce the spender's allowance to 0
166  * https://github.com/ethereum/EIPs/issues/20#issuecomment-2635247
167  * @param _spender The address which will spend the funds.
168  * @param _value The amount of tokens to be spent.

```

Reentrancy

Any interaction from a contract (A) with another contract (B) and any transfer of Ether hands over control to that contract (B). This makes it possible for B to call back into A before this interaction is completed.

Visibility

some visibility were not defined explicitly however they were manually checked if they contain the correct values.

CorionXToken-QualityAssurance_v0p1
c-labs Kft.

5

Using the `approve` function of the ERC-20 standard

No payable fallback function

Reentrancy

Implicit visibility level

File: `codeblock.sol`

Lines: 48-48

Severity: 0

Pattern id: b51ce0

✓

✗

codeblock.sol

```

44
45 contract BasicToken is ERC20Basic {
46     using SafeMath for uint256;
47
48     mapping(address => uint256) balances;
49
50     /**
51      * @dev transfer token for a specified address
52      * @param _to The address to transfer to.
53      * @param _value The amount to be transferred.
54      */
55     function transfer(address _to, uint256 _value) public returns (bool) {
56         require(_to != address(0));
57         require(_value <= balances[msg.sender]);
58
59         // SafeMath.sub will throw if there is not enough balance.
60         balances[msg.sender] = balances[msg.sender].sub(_value);
61         balances[_to] = balances[_to].add(_value);
62         Transfer(msg.sender, _to, _value);

```

Implicit visibility level

The default function visibility level in Solidity is public. Explicitly define function visibility to prevent confusion.

Delivery test

First delivery of the token to the rinkeby test network was analyzed and documented in details.

Please note that the tests and use-cases were initially with 8 decimals tested and initial supply 400 000 000 000 000.

Test parameters (ropsten)

TEST1	0x9b46BE2116F52f63B81bd98961efCDb4B0397540
TEST2	0x53cb49375f1A3f1331Cdf87054D73BBA08215634
MAIN	0x18921a0F96805AbAEF9ce33ee0fD653f15f88B7d
CONTRACT	0xe72f01A9d819C28C9b0A7c9cD6242224E5f73169

Youtube video list

https://www.youtube.com/playlist?list=PLs1AITaVDA13odBE_TvxwejXpiowCeHOY

Checks after first deployment ethereum explorer

<https://youtu.be/zKT6iazOSJ4>

The screenshot shows the Etherscan ROPSTEN (Revival) TESTNET interface. The top navigation bar includes the Etherscan logo, the network name, a search bar, and a language selector. Below the navigation bar, the breadcrumb trail reads: Home / ERC-20 TokenTracker / CorionX utility token. The main content area is divided into two columns. The left column, titled 'Summary [ERC-20]', displays: Total Supply: 400,000,000 CORX; Holders: 0 addresses; Transfers: 0. The right column displays: Contract: 0xe72f01A9d819C28C9b0A7c9cD624224E5f73169; Decimals: 8; Links: Not Available, Update ?; and a 'Filtered By' section with an input field 'Enter Address/TxHash' and an 'Apply' button. Below these columns, there are tabs for 'Transfers', 'Holders', 'ReadContract', and 'Write Contract Beta'. The 'Transfers' tab is active, showing a message 'A Total Of 0 transactions found' and a table with columns 'TxHash', 'Age', 'From', 'To', and 'Quantity'. A yellow box in the table area states 'There are no matching entries'. At the bottom right, there is a link '[Download CSV Export]'.

Balance of owner mist:

Deployed Contracts

CorionXToken at 0xe72...73169 (blockchain)

approve

address _spender, uint256 _value

decreaseApproval

address _spender, uint256 _subtractedValue

increaseApproval

address _spender, uint256 _addedValue

kill

transfer

address _to, uint256 _value

transferFrom

address _from, address _to, uint256 _value

allowance

address _owner, address _spender

balanceOf

0x18921a0f96805abaef9ce33ee0fd653f15f88b7d

0: uint256: balance 40000000000000000

decimals

0: uint8: 8

INITIAL_SUPPLY

0: uint256: 40000000000000000

name

0: string: CorionX utility token

owner

0: address: 0x18921a0F96805AbAEF9ce33ee0fD653f15f88B7d

symbol

0: string: CORX

totalSupply

0: uint256: 40000000000000000

Token holder ethereum explorer

Summary [ERC-20]

Total Supply: 400,000,000 CORX

Holders: 1 addresses

Transfers: 2

Contract: [0xe72f01A9d819C28C9b0A7c9cD624224E5f73169](#)

Decimals: 8

Links: Not Available, [Update ?](#)

Filtered By:

Transfers

Holders

ReadContract

Write Contract Beta TokenHolders Chart

A Total Of 1 Token Holder

[First](#) [Prev](#) [Page 1 of 1](#) [Next](#) [Last](#)

Rank	Address	Quantity	Percentage
1	0x18921a0f96805abae9ce33ee0fd653f15f88b7d	400000000	100.0000%

Transfer into a new account

<https://youtu.be/vTbCm-AiFXw>

or

At Address

Transactions recorded: 0

Deployed Contracts

CorionXToken at 0xe72...73169 (blockchain)

approve address_spender, uint256_value

decreaseApproval address_spender, uint256_subtractedValue

increaseApproval address_spender, uint256_addedValue

kill

transfer

_to:

_value:

transact

transferFrom address_from, address_to, uint256_value

allowance address_owner, address_spender

balanceOf

0: uint256: balance 400000000000000000

decimals

0: uint8: 8

INITIAL_SUPPLY

0: uint256: 400000000000000000

name

0: string: CorionX utility token

owner

0: address: 0x18921a0F96805AbAEF9ce33ee0fD653f15f88B7d

Overview

Event Logs (1)

Transaction Information

[This is a Ropsten Testnet Transaction Only]

TxHash:

0x9cf380f4349840b0b0d4fe180b4ec0cde6ed64e55b2bdc9fa18de8585d188b6c

TxReceipt Status:

Success

Block Height:

4138694 (3 Block Confirmations)

TimeStamp:

46 secs ago (Sep-29-2018 04:43:45 PM +UTC)

From:

0x18921a0f96805abaef9ce33ee0fd653f15f88b7d

To:

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169

Tokens Transferred:

From 0x18921a0f96805ab... To 0x9b46be2116f52f6... for 1 ERC-20 (CORX)

Value:

0 Ether (\$0.00)

Gas Limit:

51748

Gas Used By Transaction:

New balances:

Summary [ERC-20]

Total Supply: 400,000,000 CORX

Holders: 2 addresses

Transfers: -

Contract: [0xe72f01A9d819C28C9b0A7c9cD6242224E5f73169](#)

Decimals: 8

Links: Not Available, [Update ?](#)

Filtered By:

Apply

Transfers

Holders

ReadContract

Write Contract Beta

TokenHolders Chart

A Total Of 2 Token Holders

First

Prev

Page 1 of 1

Next

Last

Rank	Address	Quantity	Percentag
1	0x18921a0f96805abaef9ce33ee0fd653f15f88b7d	399999999	100.0000%
2	0x9b46be2116f52f63b81bd98961efcdb4b0397540	1	0.0000%

Transferring more than balance: error expected

<https://youtu.be/loLSIWgf4UM>

or

At Address

Transactions recorded: 1

Deployed Contracts

CorionXToken at 0xe72...73169 (blockchain)

approve

decreaseApproval

increaseApproval

kill

transfer

_to:

_value:

transact

transferFrom

allowance

balanceOf

0: uint256: balance 399999999900000000

decimals

0: uint8: 8

INITIAL_SUPPLY

0: uint256: 400000000000000000

name

0: string: CorionX utility token

owner

0: address: 0x18921a0f96805AbAEF9ce33ee0fD653f15f88B7d

```
0xe03b59ca5905c42727c2956d75c832e84c6d1b315f0beaf2eba60fd00fa95843
```

Fall

4138708 (1 Block Confirmation)

42 secs ago (Sep-29-2018 04:47:17 PM +UTC)

0x18921a0f96805abaef9ce33ee0fd653f15f88b7d

Contract 0xe72f01a9d819c28c9b0a7c9cd624224e5f73169

Warning! Error Encounter during Contract Execution [Reverted]

ERC-20 Token Transfer Error (Unable To Locate Corresponding Transfer Event Logs), Check with Sender.

0 Ether (\$0.00)

3000000

23978

0.000000004 Ether (4 Gwei)

0.000095912 Ether (\$0.000000)

4 | {32}

[illegible]

View Input As ▾

Transferring the amount back

<https://youtu.be/5TtTGj5WXZA>

Transfers Holders ReadContract Write Contract Beta

TokenHolders Chart

A Total Of 2 Token Holders

First Prev Page 1 of 1 Next Last

Rank	Address	Quantity	Percentag
1	0x18921a0f96805abaef9ce33ee0fd653f15f88b7d	399999998	100.0000%
2	0x9b46be2116f52f63b81bd98961efcdb4b0397540	2	0.0000%

transfer

_to:

0x18921a0f96805abaef9ce33ee0fd653f15f88b7d

_value:

200000000



transact

TxHash:
0x37a8ca3c19ed1ee21f219f3980216cac31fb959d4d77961b7e257df2869c06ed

Block Height:
(Pending)

Time Last Seen:
⌚ 00 days 00 hr 00 min 08 secs ago (Sep-29-2018 06:04:17 PM)

From:
0x9b46be2116f52f63b81bd98961efcdb4b0397540

To:
0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169

Token Transfer:
▶ Pending Transfer to → 0x18921a0f96805ab... For 2 ERC-20 (CorionX utility token)

Value:
0 Ether (\$0.000000)

Gas Limit:
36748

Gas Used By Transaction:
Pending

Gas Price:
0.000000004 Ether (4 Gwei)

TxHash:
0x37a8ca3c19ed1ee21f219f3980216cac31fb959d4d77961b7e257df2869c06ed

TxReceipt Status:
Success

Block Height:
4139094 (4 Block Confirmations)

TimeStamp:
50 secs ago (Sep-29-2018 06:04:15 PM +UTC)

From:
0x9b46be2116f52f63b81bd98961efcdb4b0397540

To:
Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169

Tokens Transferred:
From 0x9b46be2116f52f63b81bd98961efcdb4b0397540 To 0x18921a0f96805ab... for 2 ERC-20 (CORX)

Value:
0 Ether (\$0.00)

Gas Limit:
36748

Gas Used By Transaction:
21748

Gas Price:
0.000000004 Ether (4 Gwei)

Actual Tx Cost/Fee:
0.000086992 Ether (\$0.000000)

balanceOf 0x9b46be2116f52f63b81bd98961efcdb4b0397540

0: uint256: balance 0

balanceOf 0x18921a0f96805abae99ce33ee0f0653f15f88b7d

0: uint256: balance 4000000000000000000

Contract: 0xe72f01A9d819C28C9b0A7c9cD6242224E5f73169

Decimals: 8

Links: Not Available, [Update ?](#)

Filtered By:

Transfers **Holders** ReadContract Write Contract Beta

A Total Of 1 Token Holder

First Prev Page 1 of 1 Next Last

Rank	Address	Quantity	Percentage
1	0x18921a0f96805abaef9ce33ee0fd653f15f88b7d	400000000	100.0000%

Transfer from without approvement

<https://youtu.be/t5tw-SvMhsA>

transferFrom

_from: 0x9b48BE2116F52f53B81bd96961eFCDb4B0397540

_to: 0x18921a0f96805abaef9ce33ee0fd653f15f88b7d

_value: 50000000

=

TxReceipt Status:

Fail

Block Height:

4169421 (5 Block Confirmations)

Time Stamp:

53 secs ago (Oct-04-2018 01:01:08 PM +UTC)

From:

0x53cb49375f1a3f1331cdf87054d73bba08215634

To:

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169 ⚠

Warning! Error Encounter during Contract Execution [Reverted] ⓘ

Value:

0 Ether (\$0.00)

Gas Limit:

3000000

Gas Used By Transaction:

25678

Gas Price:

0.000000001 Ether (1 Gwei)

Actual Tx Cost/Fee:

0.000025678 Ether (\$0.000000)

Nonce & {Position}:

1 | {23}

Approve transfer into test account

https://youtu.be/_qZSMcT_TiY


approve

_spender:

0x53cb49375f1A3f1331Cd87054D738BA06215634

_value:

10



transact

TxReceipt Status:

Success

Block Height:

4169518 (1 Block Confirmation)

TimeStamp:

31 secs ago (Oct-04-2018 01:37:45 PM +UTC)

From:

0x9b46be2116f52f63b81bd98961efcdb4b0397540

To:

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169 ✓

Value:

0 Ether (\$0.00)

Gas Limit:

45226

Gas Used By Transaction:

45226

Gas Price:

0.000000001 Ether (1 Gwei)

Actual Tx Cost/Fee:

0.000045226 Ether (\$0.000000)

allowance

_owner:

0x9b46be2116f52f63b81bd98961efcdb4b0397540

_spender:

0x53cb49375f1A3f1331Cd87054D738BA06215634



call

0: uint256: 10

Increase approval

<https://youtu.be/ZdjDzwV1Q1c>

allowance

_owner:

0x9b48BE2116F52f63B81bd98961eFCdb4B0397540

_spender:

0x53cb49375f1A3f1331Cdf87054D73BBA08215634

call

0: uint256: 10

approve

_spender:

0x53cb49375f1A3f1331Cdf87054D73BBA08215634

_value:

20

transact

0xb8be805a969fea39c7f3a70c27012c6a0e822811ad860fa67654a34baf3d55cb

Success

4169535 (2 Block Confirmations)

25 secs ago (Oct-04-2018 01:48:21 PM +UTC)

0x9b46be2116f52f63b81bd98961efcdb4b0397540

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169

0 Ether (\$0.00)

30226

30226

0.000000001 Ether (1 Gwei)

0.000030226 Ether (\$0.000000)

3 | {33}

[illegible]

View Input As ▾

Decrease approval

<https://youtu.be/NuegkLuxjUo>

allowance ^

_owner:

0x9b48BE2118F52f63B81bd98061eFCDb4B0397540

_spender:

0x53cb49375f1A3f1331Cdf87054D73BBA08215634

Interact

0: uint256: 20

approve ^

_spender:

0x53cb49375f1A3f1331Cdf87054D73BBA08215634

_value:

10

Interact

0xc76f473cb966517064a0d5f593f6eb2f9756d4e9415a7752bb6c1055e45d49be

Success

4169537 (1 Block Confirmation)

3 mins ago (Oct-04-2018 01:48:30 PM +UTC)

0x9b46be2116f52f63b81bd98961efcdb4b0397540

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169

0 Ether (\$0.00)

30226

30226

0.000000001 Ether (1 Gwei)

0.000030226 Ether (\$0.000000)

4 | {38}

```
Function: approve(address _spender, uint256 _value) ***
```

MethodID: 0x095ea7b3

[illegible][illegible]

View Input As ▾

allowance

_owner:

0x0b48BE2116F52f3B81bd96981eFCD64B0397540

_spender:

0x53cb49375f1A3f1331Cd87054D738BA08215034

call

0: uint256: 10

Transfer from bigger than allowed

<https://youtu.be/mgilVPsddto>

allowance

_owner:

0x9b48BE2116F52f63B81bd98961e4CDb4B0397540

_spender:

0x53cb49375f1A3f11331Cd87054D73BBA08215634

call

0: uint256: 10

transferFrom

_from:

0x9b48BE2116F52f63B81bd98961e4CDb4B0397540

_to:

0x18821a0f96805abee9ce33ee0fd653f15f88b7d

_value:

30

transfer

[This is a Ropsten Testnet Transaction Only]

TxHash:

0x724d2fb23bb9e068f0fb616dc26abcac8f60f398a56f1b374733e60bf83d6035

TxReceipt Status:

Fail

Block Height:

4169546 (1 Block Confirmation)

Time Stamp:

1 min ago (Oct-04-2018 01:54:27 PM +UTC)

From:

0x53cb49375f1a3f1331cdf87054d73bba08215634

To:

Contract 0xe72f01a9d819c28c9b0a7c9cd624224e5f73169

Warning! Error Encounter during Contract Execution [Reverted]

Value:

0 Ether (\$0.00)

Gas Limit:

3000000

Gas Used By Transaction:

25486

Gas Price:

0.000000001 Ether (1 Gwei)

Actual Tx Cost/Fee:

0.000025486 Ether (\$0.000000)

Nonce & {Position}:

21 [7]

Input Data:

```
Function: transferFrom(address _from, address _to, uint256 _value) ***
```

MethodID: 0x23b872dd

[illegible][illegible][illegible]

View Input As ▾

0x724d2fb23bb9e068f0fb616dc26abcac8f60f398a56f1b374733e60bf83d6035

Fail

4169546 (1 Block Confirmation)

1 min ago (Oct-04-2018 01:54:27 PM +UTC)

0x53cb49375f1a3f1331cdf87054d73bba08215634

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169 

Warning! Error Encounter during Contract Execution [Reverted]

0 Ether (\$0.00)

3000000

25486

0.000000001 Ether (1 Gwei)

0.000025486 Ether (\$0.000000)

 $2 \mid \{7\}$ [illegible]

Transfer from allowed amount

<https://youtu.be/nzDfPYDY-K8>

Contract: `0xe72f01A9d819C28C9b0A7c9cD6242224E5f73169`

Decimals: 8

Links: Not Available, [Update ?](#)

Filtered By: Apply

Transfers **Holders** ReadContract Write Contract Beta

TokenHolders Chart

A Total Of 2 Token Holders First Prev Page 1 of 1 Next Last

Rank	Address	Quantity	Percentage
1	<code>0x18921a0f96805abaef9ce33ee0fd653f15f88b7d</code>	399999998.5	100.0000%
2	<code>0x9b46be2116f52f63b81bd98961efcdb4b0397540</code>	1.5	0.0000%

allowance

`_owner:` `0x9b46BE2116F52f63B81bd98961efCDb4B0397540`

`_spender:` `0x53cb49375f1A3f1331CdF87054D738BA08215634`

call

0: uint256: 10

transferFrom

`_from:` `"0x9b46BE2116F52f63B81bd98961efCDb4B0397540"`

`_to:` `"0x18921a0f96805abaef9ce33ee0fd653f15f88b7d"`

`_value:` 10

transact

TxHash:

0x092698234d542a28f1ce5e4e1afdaf31c67d019dc6ed4615733f30b1ec81d976

TxReceipt Status:

Success

Block Height:

4169552 (1 Block Confirmation)

TimeStamp:

43 secs ago (Oct-04-2018 01:58:18 PM +UTC)

From:

0x53cb49375f1a3f1331cdf87054d73bba08215634

To:

Contract 0xe72f01a9d819c28c9b0a7c9cd6242224e5f73169 

Tokens Transferred:

► From 0x9b46ba2116f52f6... To 0x18921a0f96805ab... for 0.0000001 ERC-20 (CORX)

Value:

0 Ether (\$0.00)

Gas Limit:

44122

Gas Used By Transaction:

29122

Gas Price:

0.000000001 Ether (1 Gwei)

Actual Tx Cost/Fee:

Contract: **0xe72f01A9d819C28C9b0A7c9cD6242224E5f73169**

Decimals: 8

Links: Not Available, [Update ?](#)

Filtered By:

Transfers **Holders** ReadContract Write Contract Beta

 Token Holders Chart

A Total Of 2 Token Holders First Prev Page 1 of 1 Next Last

Rank	Address	Quantity	Percentage
1	0x18921a0f96805abae9ce33ee0fd653f15f88b7d	3999999998.5	100.0000%
2	0x9b46be2116f52f63b81bd98961efcdb4b0397540	1.4999999	0.0000%