EEA-Reputation

|  |  |
| --- | --- |
| Type: | TemplateDefinition |
| Name: | EEA-Reputation |
| Id: | 2057e98c-b319-4e99-a28a-aac39242541c |
| Visual: | &tau;<sub>F</sub>{<i>~d,~t,SC</i>} |
| Tooling: | tF{~d,~t,SC} |
| Version: | 1.0 |

## Definition

EEA Reputation Tokens are issued, upon vesting, to an organization's contributors establishing an individual's reputation. The token grant should be adjusted when commitments are met or before vesting indicating the split of reputation tokens by percentage to the contributors listed in the grant. The reputation split between contributors is finalized when the grant vests. Both Reward and Penalty tokens are matched 1-1 towards Reputation with the ability to improve or damage an individual's reputation. An individual's reputation cannot be negative so penalties will subtract 1-1 until exhausted or the account balance reaches 0. The reputation score of an organization is the sum of their contributor's balances. These tokens are lifetime tokens and are not transferable for any member that has earned them. EEA Reputation tokens are minted and burned but are not redeemable.

## Example

For example, if an organization collects 10,000 tokens during its annual membership cycle, they can redeem the EEA Rewards tokens for say $10,000 credit to its membership, or continue to accumulate. In addition, if the organization's lifetime membership EEA Reputation tokens total was 100,000 at the beginning of the membership cycle, it would be 110,000 at the end of the cycle in this example. In addition, 10,000 points would be split across the organization's employees who earned them.

## Analogies

|  |  |
| --- | --- |
| Name | Description |
| Earned Credits | A customer can earn a point/token for each mile travelled and then redeem these points/tokens for upgrades or new tickets, but cannot transfer the points to another party. |

## Dependencies

|  |  |  |
| --- | --- | --- |
| Artifact Type | Symbol | Description |

## Incompatible With

|  |  |  |
| --- | --- | --- |
| Artifact Type | Symbol | Id |

## Influenced By

|  |  |  |
| --- | --- | --- |
| Description | Symbol | Applies To |

## Artifact Files

|  |  |  |
| --- | --- | --- |
| Content Type | File Name | File Content |
| Control | EEA-Reputation.proto |  |
| Uml | EEA-Reputation.md |  |

## Code Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Platform | Location |
| SourceCode | Solidity Reputation Token | EthereumSolidity | https://github.com/EntEthAlliance/Trusted-Token/blob/develop/contracts/ReputationToken.sol |

## Implementation Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Platform | Location |

## Resource Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Location | Description |

# Template Definition

## Template Formula Reference: tF{~d,~t,g,SC}

Name: tF{~d,~t,g,SC}

Id: b7346906-3949-44de-9b28-435e32983fd0

Reference Notes: EEA-Reputation

# Base Details

|  |  |
| --- | --- |
| Token Name: |  |
| Symbol: |  |
| Owner: |  |
| Quantity: | 0 |
| Decimals: | 0 |
| Constructor Name: | Constructor |

# Behaviors

## Behavior Reference: Non-Subdividable

Reference Notes: Non-Subdividable

|  |  |
| --- | --- |
| Is External: | True |
| Constructor: |  |

### Applies To

### Invocations

### Influence Bindings

### Properties

#### Name: Decimals

Value Description: Set to Zero, not allowing any subdivision, usually this is applied to the base token.

Template Value: 0

### Invocations

#### GetDecimals

Id: 2ca7fbb2-ce98-4dda-a6ae-e4ac2527bb33

Description: Should return 0

##### Request

Control Message: GetDecimalsRequest

Description:

###### Parameters

|  |  |
| --- | --- |
| Name | Value |

##### Response

Control Message: GetDecimalsResponse

Description: Return 0

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Decimals | 0 |

### Properties

## Behavior Reference: Non-transferable

Reference Notes: Non-transferable

|  |  |
| --- | --- |
| Is External: | True |
| Constructor: |  |

### Applies To

### Invocations

### Influence Bindings

### Properties

## Behavior Groups

Name: Supply Control

Id: 91cb89b6-a2ce-44ff-b3a0-f0cb3f117e56

Reference Notes: Supply Control

## Reference Values

## Artifact Files

|  |  |  |
| --- | --- | --- |
| Content Type | File Name | File Content |

## Code Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Platform | Location |

## Implementation Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Platform | Location |

## Resource Map

|  |  |  |  |
| --- | --- | --- | --- |
| Map Type | Name | Location | Description |

## Behavior

## Behavior Reference: Mintable

Reference Notes: Mintable in SupplyControl will be bound to the Roles behavior to determine if the requesting minter is allowed to invoke the behavior.

|  |  |
| --- | --- |
| Is External: | False |
| Constructor: |  |

### Applies To

### Invocations

### Influence Bindings

### Properties

## Behavior

## Behavior Reference: Burnable

Reference Notes: Burnable is not modified from the referenced behavior.

|  |  |
| --- | --- |
| Is External: | False |
| Constructor: |  |

### Applies To

### Invocations

### Influence Bindings

### Properties

## Behavior

## Behavior Reference: Roles

Reference Notes: Roles support requires that a role or group called 'Minters' be created that allows for account to be added. These accounts will be allowed to invoke MintTo.

|  |  |
| --- | --- |
| Is External: | False |
| Constructor: |  |

### Applies To

|  |  |
| --- | --- |
| Type: | Behavior |
| Name: | Mintable |
| Id: | f9224e90-3cab-45bf-b5dc-0175121e2ead |
| Visual: | <i>m</i> |
| Tooling: | m |
| Version: | 1.0 |

### Invocations

### Influence Bindings

Influenced Id: f9224e90-3cab-45bf-b5dc-0175121e2ead

Influenced Name: Mintable

Influenced Invocation Id: 70499b23-a1dd-4c87-90d6-6e45400f28b5

Influence Type: Intercept

Influencing Invocation:

### RoleCheck

Id: 00a665e3-1dda-441e-8262-5750435c153c

Check to see if the account is in the Role called 'Minters'

#### Request

Control Message: IsInRole

Description: Checking the 'Minters' role.

#### Parameters

|  |  |
| --- | --- |
| Name | Value |
| AccountId | AccountId of the requestor. |

#### Response

Control Message: True/False

Description: Respond true if the account is in the 'Minters' role.

#### Parameters

|  |  |
| --- | --- |
| Name | Value |
| IsInRole | True/False |

Influenced Invocation:

### MintTo

Id: 70499b23-a1dd-4c87-90d6-6e45400f28b5

A request to create new token instances in the class by the owner or a party or account in a role that is granted this permission to another party or account. Requires a To and Quantity fields in the request.

#### Request

Control Message: MintToRequest

Description: The request

#### Parameters

|  |  |
| --- | --- |
| Name | Value |
| ToAccount | Account Id to mint the tokens to. |
| Quantity | Number of new tokens to create. |

#### Response

Control Message: MintToResponse

Description: The response

#### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Confirmation | A confirmation receipt or error may be returned to the invoker based on the outcome of the MintTo request. |

### Properties

#### Name: Role

Value Description: A group or list an account can be a member or be in.

Template Value: Minters

### Invocations

#### GetMinters

Id:

Description: Request the the list of member accounts in the 'Minters' role.

##### Request

Control Message: GetMintersRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |

##### Response

Control Message: GetMintersResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Members | Returning the list of accounts in the 'Minters' role. |

#### AddRoleMember

Id: 600357f8-0499-47f8-87a5-eedf4ad034af

Description: Add a member to the group or role property.

##### Request

Control Message: AddRoleMemberRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| RoleName | Value is always set to 'Minters' |
| AccountAddress | Address, name or identifier of the account to be added to the 'Minters' role. |

##### Response

Control Message: AddRoleMemberResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Added | True or False. |

#### RemoveRoleMember

Id: 97e160bb-6c60-4f1d-923b-813b07b89638

Description: Remove a member to the group or role property.

##### Request

Control Message: RemoveRoleMemberRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| RoleName | Always set to 'Minters' |
| AccountAddress | Address, name or identifier of the account to be removed from the role. |

##### Response

Control Message: RemoveRoleMemberResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Added | True or False. |

#### IsInRole

Id: e42b1b16-074a-4d7d-b9f9-f69a2397a21b

Description: Check to see if an account is in the role.

##### Request

Control Message: IsInRoleRequest

Description: The request may be internal only and not exposed externally.

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| RoleName | Always be bound to 'Minters' |
| AccountAddress | Address, name or identifier of the account to be checked. |

##### Response

Control Message: IsInRoleRequestResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| InRole | True or False. |

### Properties

## Property Sets

## Child Tokens