License-Diploma

|  |  |
| --- | --- |
| Type: | TemplateDefinition |
| Name: | License-Diploma |
| Id: | 49b6535a-430d-487b-8442-cf3457836ecc |
| Visual: | &tau;<sub>N</sub>{<i>s,~t,a</i>} |
| Tooling: | tN{s,~t,a} |
| Version: | 1.0 |

## Definition

A singleton is a non-subdividable whole token with a quantity of 1. Generally used to represent digital or physical items where there will be a single owner. A singleton implies non-subdividable, so the decimal value for the base token should be 0 and a total Quantity be 1, both are established upon creation. This singleton is non-transferable and attestable.

## Example

A educational diploma issued to a student, is not valid to transfer to someone else.

## Analogies

|  |  |
| --- | --- |
| Name | Description |
| Certification | A person may obtain some certification to prove that they attended and passed some set of requirements. |
| License | A business may obtain license from the government to prove that they are registered and recognized. |

## Dependencies

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

## Incompatible With

|  |  |  |
| --- | --- | --- |
| Artifact Type | Symbol | Id |
| Behavior | d | 6e3501dc-5800-4c71-b59e-ad11418a998c |
| Behavior | m | f9224e90-3cab-45bf-b5dc-0175121e2ead |

## Influenced By

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

## Artifact Files

|  |  |  |
| --- | --- | --- |
| Content Type | File Name | File Content |
| Control | License-Diploma.proto |  |
| Uml | License-Diploma.md |  |

## Code Map

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

## Implementation Map

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

## Resource Map

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

# Template Definition

## Template Formula Reference: tN{s,~t,a}

Name: tN{s,~t,a}

Id: 6fa235c7-d9d7-4fa2-b2b3-0e8e6838b770

Reference Notes: License-Diploma

# Base Details

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

# Behaviors

## Behavior Reference: Singleton

Reference Notes: Singleton

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

### Applies To

### Invocations

### Influence Bindings

### Properties

## 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 Reference: Attestable

Reference Notes: Attestable

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

### Applies To

### Invocations

#### Attest

Id: f404f43f-c922-475d-9a0c-b4a0bdca6029

Description: A request to validate a rule or attestation.

##### Request

Control Message: AttestRequest

Description: The request to Attest an attestation.

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Attestation | Value of the attestation to validate |

##### Response

Control Message: AttestResponse

Description: The response from the AttestRequest.

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Confirmation | A true or false result |

#### AttestByAccount

Id: c573dc98-d669-4e24-a06d-70a7c1d29078

Description: A request to validate a rule or attestation.

##### Request

Control Message: AttestByAccountRequest

Description: The request to Attest by an account id.

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| AccountId | The Id of the account to validate. |

##### Response

Control Message: AttestByAccountResponse

Description: The response from the AttestByAccountRequest, if true can include a Attestation for the caller to use in subsequent attestation checks.

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Confirmation | A true or false result |
| Attestation | A cryptographic signature that can be validated with AttestRequest. |

### Influence Bindings

### Properties

## Behavior Groups

## Property Sets

## Child Tokens