ReservedTicket

|  |  |
| --- | --- |
| Type: | TemplateDefinition |
| Name: | ReservedTicket |
| Id: | 8dab45c9-cf5d-4752-b4dd-d2192a22886a |
| Visual: | &tau<sub>N</sub><i>{~d,t,g,SC}</i> |
| Tooling: | tN{~d,t,g,SC} |
| Version: | 1.0 |

## Definition

This is a Variable Supply Whole Non-Fungible where the total supply can vary. The tokens in this class will be of the same series, sharing those properties, but also have unique values like seat number. It is Whole by setting the Decimals property on the subdividable behavior = 0. A token instance can be burned.

## Example

This token can be used to represent a unique item in a shared context, like a reserved seat at a concert.

## Analogies

|  |  |
| --- | --- |
| Name | Description |
| Reserved Seating | All tokens in the class share the venue, date and time for the event, but have a unique seat number. |

## 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 | ReservedTicket.proto |  |
| Uml | ReservedTicket.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{~d,t,g,SC}

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

Id: 38ead4b1-1f94-4bc3-8b1f-2d0dda0c72bb

Reference Notes: ReservedTicket

# 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: Transferable

Reference Notes: Transferable

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

### Applies To

### Invocations

#### Transfer

Id: 5d4b8f10-7857-4a2f-9b8c-d61e367a6bcc

Description: >A transfer request will invoke a transfer from the owner of the token to the party or account provided in the To field of the request. For fungible or subdividable non-fungible tokens, this request may also include value in the Amount field of the request to transfer more than one token of the class in a single request.

##### Request

Control Message: TransferRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| To | AccountId to transfer ownership to. |
| Quantity | Number of tokens to transfer. |

##### Response

Control Message: TransferResponse

Description: The response

###### Parameters

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

#### TransferFrom

Id: 516b4e2f-4a14-4c4f-a6f2-1419d4af35c6

Description: >A transfer request will invoke a transfer from the owner of the token to the party or account provided in the To field of the request. For fungible or subdividable non-fungible tokens, this request may also include value in the Amount field of the request to transfer more than one token of the class in a single request.

##### Request

Control Message: TransferFromRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| From | AccountId to transfer ownership from. |
| To | AccountId to transfer ownership to. |
| Quantity | Number of tokens to transfer. |

##### Response

Control Message: TransferFromResponse

Description: The response

###### Parameters

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

### Influence Bindings

### Properties

## Behavior Reference: Delegable

Reference Notes: Delegable

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

### Applies To

|  |  |
| --- | --- |
| Type: | Behavior |
| Name: | Burnable |
| Id: | 803297a1-c0f9-4898-9d44-29c9d41cca97 |
| Visual: | <i>b</i> |
| Tooling: | b |
| Version: | 1.0 |

|  |  |
| --- | --- |
| Type: | Behavior |
| Name: | Transferable |
| Id: | af119e58-6d84-4ca6-9656-75e8d312f038 |
| Visual: | <i>t</i> |
| Tooling: | t |
| Version: | 1.0 |

### Invocations

#### Allowance

Id: 2e0fd8e5-2090-4c62-b094-232c32a78022

Description: A Request by a party or account to the owner of a token(s) to have the right to perform a delegated behavior on their behalf.

##### Request

Control Message: AllowanceRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Quantity | Number of Tokens to be allowed. |

##### Response

Control Message: AllowanceResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Confirmation | A confirmation receipt or denial be returned to the allowance requestor. |

#### Approve Allowance

Id: 6d5df99d-2f5e-4c7a-aea4-d2d54176abfd

Description: Same control message as the AllowanceRequest. This could allow for an AllowanceRequest to be forwarded to multiple parties needed to Approve and shield this from the requestor. When all Approvals are obtained, an AllowanceResponse could be sent.

##### Request

Control Message: AllowanceRequest

Description: The request

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Quantity | Number of Tokens to be allowed. |

##### Response

Control Message: ApproveResponse

Description: The response

###### Parameters

|  |  |
| --- | --- |
| Name | Value |
| Confirmation | A confirmation response from the owner approving the an allowance request, indicating a allowance quantity the requestor has the option to invoke the Delegable behaviors on the token(s). |

### Influence Bindings

### Properties

## Behavior Groups

## Property Sets

## Child Tokens