

# Module sui::transfer\_policy

Defines the [TransferPolicy](#) type and the logic to approve [TransferRequest](#) s.

TransferPolicy - is a highly customizable primitive, which provides an interface for the type owner to set custom transfer rules for every deal performed in the Kiosk or a similar system that integrates with TP.

Once a [TransferPolicy](#) is created for and shared (or frozen), the type T becomes tradable in Kiosks. On every purchase operation, a [TransferRequest](#) is created and needs to be confirmed by the [TransferPolicy](#) hot potato or transaction will fail.

Type owner (creator) can set any Rules as long as the ecosystem supports them. All of the Rules need to be resolved within a single transaction (eg pay royalty and pay fixed commission). Once required actions are performed, the [TransferRequest](#) can be "confirmed" via [confirm\\_request](#) call.

[TransferPolicy](#) aims to be the main interface for creators to control trades of their types and collect profits if a fee is required on sales. Custom policies can be removed at any moment, and the change will affect all instances of the type at once.

[Struct](#) TransferRequest

[Struct](#) TransferPolicy

[Struct](#) TransferPolicyCap

[Struct](#) TransferPolicyCreated

[Struct](#) TransferPolicyDestroyed

[Struct](#) RuleKey

[Constants](#)

[Function](#) new\_request

[Function](#) new

[Function](#) default

[Function](#) withdraw

[Function](#) destroy\_and\_withdraw

[Function](#) confirm\_request

[Function](#) add\_rule

[Function](#) get\_rule

[Function](#) add\_to\_balance

[Function](#) add\_receipt

[Function](#) has\_rule

[Function](#) remove\_rule

[Function](#) uid

[Function](#) uid\_mut\_as\_owner

[Function](#) rules

[Function](#) item

[Function](#) paid

[Function](#) from

A "Hot Potato" forcing the buyer to get a transfer permission from the item type (T) owner on purchase attempt.

A unique capability that allows the owner of the T to authorize transfers. Can only be created with the Publisher object. Although there's no limitation to how many policies can be created, for most of the cases there's no need to create more than one since any of the policies can be used to confirm the [TransferRequest](#) .

A Capability granting the owner permission to add/remove rules as well as to [withdraw](#) and [destroy\\_and\\_withdraw](#) the [TransferPolicy](#) .

Event that is emitted when a publisher creates a new [TransferPolicyCap](#) making the discoverability and tracking the supported types easier.

Event that is emitted when a publisher destroys a [TransferPolicyCap](#) . Allows for tracking supported policies.

Key to store "Rule" configuration for a specific [TransferPolicy](#) .

The number of receipts does not match the [TransferPolicy](#) requirement.

A completed rule is not set in the [TransferPolicy](#) .

A Rule is not set.

Attempting to create a Rule that is already set.

Trying to [withdraw](#) or [close\\_and\\_withdraw](#) with a wrong Cap.

Trying to [withdraw](#) more than there is.

Construct a new [TransferRequest](#) hot potato which requires an approving action from the creator to be destroyed / resolved. Once created, it must be confirmed in the [confirm\\_request](#) call otherwise the transaction will fail.

Register a type in the Kiosk system and receive a [TransferPolicy](#) and a [TransferPolicyCap](#) for the type. The [TransferPolicy](#) is required to confirm kiosk deals for the T. If there's no [TransferPolicy](#) available for use, the type can not be traded in kiosks.

Initialize the Transfer Policy in the default scenario: Create and share the [TransferPolicy](#) , transfer [TransferPolicyCap](#) to the transaction sender.

Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

Destroy a [TransferPolicyCap](#). Can be performed by any party as long as they own it.

Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

Note: unless there's a policy for T to allow transfers, Kiosk trades will not be possible.

Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

Get the custom Config for the Rule (can be only one per "Rule" type).

Add some SUI to the balance of a [TransferPolicy](#) .

Adds a Receipt to the [TransferRequest](#) , unblocking the request and confirming that the policy requirements are satisfied.

Check whether a custom rule has been added to the [TransferPolicy](#) .

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Allows reading custom attachments to the [TransferPolicy](#) if there are any.

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## Struct

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Check whether a custom rule has been added to the [TransferPolicy](#) .

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Get a mutable reference to the self.id to enable custom attachments to the [TransferPolicy](#) .

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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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```

Add some SUI to the balance of a [TransferPolicy](#) .

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```

Adds a Receipt to the [TransferRequest](#) , unblocking the request and confirming that the policy requirements are satisfied.

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Check whether a custom rule has been added to the [TransferPolicy](#) .

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```

Remove the Rule from the [TransferPolicy](#) .

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```

Allows reading custom attachments to the [TransferPolicy](#) if there are any.

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```

Get a mutable reference to the self.id to enable custom attachments to the [TransferPolicy](#) .

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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [paid](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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```

## Struct

Key to store "Rule" configuration for a specific [TransferPolicy](#) .

```bash

```

The number of receipts does not match the [TransferPolicy](#) requirement.

```bash

```

A completed rule is not set in the [TransferPolicy](#) .

```bash

```

A Rule is not set.

```bash

```

Attempting to create a Rule that is already set.

```bash

```

Trying to [withdraw](#) or close\_and\_withdraw with a wrong Cap.

```bash

```

Trying to [withdraw](#) more than there is.

```bash

```

Construct a new [TransferRequest](#) hot potato which requires an approving action from the creator to be destroyed / resolved. Once created, it must be confirmed in the [confirm\\_request](#) call otherwise the transaction will fail.

```bash

```

```bash

```

Register a type in the Kiosk system and receive a [TransferPolicy](#) and a [TransferPolicyCap](#) for the type. The [TransferPolicy](#) is required to confirm kiosk deals for the T. If there's no [TransferPolicy](#) available for use, the type can not be traded in kiosks.

```bash

```

```bash

'''

Initialize the Transfer Policy in the default scenario: Create and share the [TransferPolicy](#) , transfer [TransferPolicyCap](#) to the transaction sender.

'''bash

'''

'''bash

'''

Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

'''bash

'''

'''bash

'''

Destroy a TransferPolicyCap. Can be performed by any party as long as they own it.

'''bash

'''

'''bash

'''

Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

Note: unless there's a policy for T to allow transfers, Kiosk trades will not be possible.

'''bash

'''

'''bash

'''

Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

'''bash

'''

'''bash

'''

Get the custom Config for the Rule (can be only one per "Rule" type).

'''bash

'''

'''bash

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'''
```

Add some SUI to the balance of a [TransferPolicy](#) .

```
'''bash
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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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## Constants

The number of receipts does not match the [TransferPolicy](#) requirement.

```
```bash
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```

A completed rule is not set in the [TransferPolicy](#) .

```
```bash
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A Rule is not set.

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Attempting to create a Rule that is already set.

```
```bash
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Trying to [withdraw](#) or `close_and_withdraw` with a wrong Cap.

```
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Trying to [withdraw](#) more than there is.

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Construct a new [TransferRequest](#) hot potato which requires an approving action from the creator to be destroyed / resolved. Once created, it must be confirmed in the [confirm\\_request](#) call otherwise the transaction will fail.

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Register a type in the Kiosk system and receive a [TransferPolicy](#) and a [TransferPolicyCap](#) for the type. The [TransferPolicy](#) is required to confirm kiosk deals for the T. If there's no [TransferPolicy](#) available for use, the type can not be traded in kiosks.

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```

Initialize the Transfer Policy in the default scenario: Create and share the [TransferPolicy](#) , transfer [TransferPolicyCap](#) to the transaction sender.

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Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

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Destroy a TransferPolicyCap. Can be performed by any party as long as they own it.

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```

Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

Note: unless there's a policy for T to allow transfers, Kiosk trades will not be possible.

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'''
```

Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

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Get the custom Config for the Rule (can be only one per "Rule" type).

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Add some SUI to the balance of a [TransferPolicy](#) .

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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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## Function

Construct a new [TransferRequest](#) hot potato which requires an approving action from the creator to be destroyed / resolved. Once created, it must be confirmed in the [confirm\\_request](#) call otherwise the transaction will fail.

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## Function

Register a type in the Kiosk system and receive a [TransferPolicy](#) and a [TransferPolicyCap](#) for the type. The [TransferPolicy](#) is required to confirm kiosk deals for the T. If there's no [TransferPolicy](#) available for use, the type can not be traded in kiosks.

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Initialize the Transfer Policy in the default scenario: Create and share the [TransferPolicy](#) , transfer [TransferPolicyCap](#) to the transaction sender.

```
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```

'''

'''bash

'''

Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

'''bash

'''

'''bash

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Destroy a TransferPolicyCap. Can be performed by any party as long as they own it.

'''bash

'''

'''bash

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Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

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'''

Get the custom Config for the Rule (can be only one per "Rule" type).

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'''

Add some SUI to the balance of a [TransferPolicy](#) .

'''bash



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Adds a Receipt to the [TransferRequest](#) , unblocking the request and confirming that the policy requirements are satisfied.

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Check whether a custom rule has been added to the [TransferPolicy](#) .

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Remove the Rule from the [TransferPolicy](#) .

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Allows reading custom attachments to the [TransferPolicy](#) if there are any.

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```

Get a mutable reference to the self.id to enable custom attachments to the [TransferPolicy](#) .

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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [paid](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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## Function

Initialize the Transfer Policy in the default scenario: Create and share the [TransferPolicy](#) , transfer [TransferPolicyCap](#) to the transaction sender.

```
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Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

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Destroy a TransferPolicyCap. Can be performed by any party as long as they own it.

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Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

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Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

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```

Get the custom Config for the Rule (can be only one per "Rule" type).

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Add some SUI to the balance of a [TransferPolicy](#) .

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Adds a Receipt to the [TransferRequest](#) , unblocking the request and confirming that the policy requirements are satisfied.

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Check whether a custom rule has been added to the [TransferPolicy](#) .

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Remove the Rule from the [TransferPolicy](#) .

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Allows reading custom attachments to the [TransferPolicy](#) if there are any.

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Get a mutable reference to the self.id to enable custom attachments to the [TransferPolicy](#) .

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Read the [rules](#) field from the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [paid](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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```

## Function

Withdraw some amount of profits from the [TransferPolicy](#) . If amount is not specified, all profits are withdrawn.

```
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```

Destroy a `TransferPolicyCap`. Can be performed by any party as long as they own it.

```
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```
```

Allow a [TransferRequest](#) for the type `T`. The call is protected by the type constraint, as only the publisher of the `T` can get [TransferPolicy](#).

Note: unless there's a policy for `T` to allow transfers, Kiosk trades will not be possible.

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```

Add a custom Rule to the [TransferPolicy](#). Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

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Get the custom Config for the Rule (can be only one per "Rule" type).

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Add some SUI to the balance of a [TransferPolicy](#).

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Adds a Receipt to the [TransferRequest](#), unblocking the request and confirming that the policy requirements are satisfied.

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Check whether a custom rule has been added to the [TransferPolicy](#) .

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Get a mutable reference to the self.id to enable custom attachments to the [TransferPolicy](#) .

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Get the [item](#) field of the [TransferRequest](#) .

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## Function

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Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

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Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

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Get the [item](#) field of the [TransferRequest](#) .

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Get the [from](#) field of the [TransferRequest](#) .

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## Function

Allow a [TransferRequest](#) for the type T. The call is protected by the type constraint, as only the publisher of the T can get [TransferPolicy](#) .

Note: unless there's a policy for T to allow transfers, Kiosk trades will not be possible.

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Add a custom Rule to the [TransferPolicy](#) . Once set, [TransferRequest](#) must receive a confirmation of the rule executed so the hot potato can be unpacked.

Config requires drop to allow creators to remove any policy at any moment, even if graceful unpacking has not been implemented in a "rule module".

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Get the custom Config for the Rule (can be only one per "Rule" type).

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