

Mediator

Mediates actions across a set of Deployments

Table of contents

| | |
|----------------------|---|
| 1 Overview..... | 2 |
| 2 Design..... | 2 |
| 3 Constraints..... | 2 |
| 4 Attributes..... | 3 |
| 5 Commands..... | 3 |
| 6 Related Types..... | 4 |

1. Overview

Mediator: *Mediates actions across a set of Deployments*

1.1. Documentation

Documentation is available on the ControlTier Wiki: [Core Type Guide - Mediator](#)

2. Design

Super Type [Deployment](#)

| | |
|--------------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |
| Notification | false |
| Template Directory | |
| Data View | Children, proximity: 1 |
| Logger Name | |

3. Constraints

3.1. Allowed Child Dependencies

- [DefaultAllowMultiplePackageMatches](#) 1
- [DefaultFailIfPackageNotReplaced](#) 1
- [DefaultPackageName](#) 1
- [DefaultPackageType](#) 1
- [Deployment](#)
- [DispatchBaseType](#) 1
- [DispatchChangeDependencies](#) 1
- [DispatchExecutionStrategy](#) 1
- [DispatchOptions](#) 1
- [DispatchResourceName](#) 1
- [DispatchResourceType](#) 1
- [DispatchSortOrder](#) 1
- [DispatchThreadCount](#) 1
- [MediatorNotificationList](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

4. Attributes

4.1. Defaults for Imported Attributes

| Name | Default | Description |
|----------------------------|---------------------------------|---|
| defaultDeploymentType | Deployment | Used by runChangeDependencies to match any Deployment sub-type |
| dispatchBaseType | (?:deployment service mediator) | Used by dispatchCmd to match any object that is a Deployment or Service |
| dispatchChangeDependencies | false | Specifies if Change-Dependencies should dispatch the command to the subordinate objects |
| dispatchExecutionStrategy | nodedispatch | Used by dispatchCmd option: -strategy |
| dispatchOptions | | Used by dispatchCmd option: -dispatchOptions |
| dispatchResourceName | .* | Used by dispatchCmd to match any object name |
| dispatchResourceType | [^\.]* | Used by dispatchCmd to match any object type |
| dispatchSortOrder | ascending | Used by dispatchCmd option: -sortorder |
| MediatorNotificationList | | Used by Update to send notification emails |
| threadCount | 1 | Defaults to sequential execution. |

5. Commands

View the available commands in the [User Reference](#).

6. Related Types

The following types are defined for use with Mediator.

6.1. DispatchBaseType

6.1.1. Overview

DispatchBaseType: *A setting to used to default dispatchCmd option: -resourceorder*

Used by the `dispatchCmd` option `-resourceorder <>` argument. This must be a valid regex used to match base types for child dependency objects.

6.1.2. Design

Super Type
[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.1.3. Constraints

6.1.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.1.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|--|---|----------|
| settingValue | <ul style="list-style-type: none"> • [^\.] • deployment • mediator • service | <ul style="list-style-type: none"> • [^\.] | false |

6.1.4. Attributes

6.1.4.1. Exported Attributes

| Name | Property |
|------------------|--------------|
| dispatchBaseType | settingValue |

6.2. DispatchChangeDependencies

6.2.1. Overview

DispatchChangeDependencies: *A setting to determine whether Change-Dependencies is run locally or dispatched to resources*

6.2.2. Design

Super Type
[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.2.3. Constraints

6.2.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.2.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|---|---|----------|
| settingValue | <ul style="list-style-type: none"> • false • true | <ul style="list-style-type: none"> • false | false |

6.2.4. Attributes

6.2.4.1. Exported Attributes

| Name | Property |
|----------------------------|--------------|
| dispatchChangeDependencies | settingValue |

6.3. DispatchExecutionStrategy

6.3.1. Overview

DispatchExecutionStrategy: *A setting to used to define DispatchCommand option: -strategy*

Used by the `dispatchCmd` command option `-strategy <>` argument. Specifies what algorithm to use to execute the dispatched command. If "nodedispatch" strategy is specified, a remote command will be executed to invoke the command on remote objects. If "localdispatch" strategy is specified, command to only local objects will be dispatched. Internally, this value sets the "strategy" attribute in the [ExecuteAction](#) element used by the CTL [Controller](#) task.

6.3.2. Design

Super Type [MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.3.3. Constraints

6.3.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.3.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|---|--|----------|
| settingValue | <ul style="list-style-type: none"> • localdispatch • nodedispatch | <ul style="list-style-type: none"> • nodedispatch | false |

6.3.4. Attributes

6.3.4.1. Exported Attributes

| Name | Property |
|---------------------------|--------------|
| dispatchExecutionStrategy | settingValue |

6.4. DispatchOptions

6.4.1. Overview

DispatchOptions: A setting to used to default `dispatchCmd` option: `-dispatchOptions`

Used by the `dispatchCmd` option `-dispatchOptions <>` argument. This comma separated list of options are passed to commands executed by child objects.

6.4.2. Design

Super Type

[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.4.3. Constraints

6.4.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.4.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|----------------|---------|----------|
| settingValue | • true | | false |

6.4.4. Attributes

6.4.4.1. Exported Attributes

| Name | Property |
|-----------------|--------------|
| dispatchOptions | settingValue |

6.5. DispatchResourceName

6.5.1. Overview

DispatchResourceName: A setting to used to default `dispatchCmd` option: `-resourcename`

Used by the `dispatchCmd` option `-resourcename <>` argument. This must be a valid regex used to match object names for child dependency objects.

6.5.2. Design

Super Type

[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.5.3. Constraints

6.5.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.5.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|----------------|---------|----------|
| settingValue | • .* | | false |

6.5.4. Attributes

6.5.4.1. Exported Attributes

| Name | Property |
|----------------------|--------------|
| dispatchResourceName | settingValue |

6.6. DispatchResourceType

6.6.1. Overview

DispatchResourceType: A setting to used to default `dispatchCmd` option: `-resourcetype`

Used by the `dispatchCmd` option `-resourcetype <>` argument. This must be a valid regex used to match type names for child dependency objects.

6.6.2. Design

Super Type

[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.6.3. Constraints

6.6.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.6.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|----------------|----------|----------|
| settingValue | • [^\.] | • [^\.] | false |

6.6.4. Attributes

6.6.4.1. Exported Attributes

| Name | Property |
|----------------------|--------------|
| dispatchResourceType | settingValue |

6.7. DispatchSortOrder

6.7.1. Overview

DispatchSortOrder: A setting to used to default dispatchCmd option: -sortorder

Used by the dispatchCmd option -sortorder <> argument. Specifies how the child objects are sorted. Defaults to "ascending".

6.7.2. Design

Super Type
[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.7.3. Constraints

6.7.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.7.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|---|---|----------|
| settingValue | <ul style="list-style-type: none"> ascending descending | <ul style="list-style-type: none"> ascending | false |

6.7.4. Attributes

6.7.4.1. Exported Attributes

| Name | Property |
|-------------------|--------------|
| dispatchSortOrder | settingValue |

6.8. DispatchThreadCount

6.8.1. Overview

DispatchThreadCount: A setting to used to default dispatchCmd option: `-threadcount`

Used by the `dispatchCmd` option `-threadcount <>` argument. Must be an integer value. Internally this is used to set the `threadCount` attribute in the Ant [Parallel task](#).

6.8.2. Design

Super Type

[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.8.3. Constraints

6.8.3.1. Allowed Parent Dependencies

- [Mediator](#)

6.8.3.2. Allowed Property Values

| Property | Allowed Values | Default | Enforced |
|--------------|--|---|----------|
| settingValue | <ul style="list-style-type: none"> 1 2 3 4 | <ul style="list-style-type: none"> 1 | false |

| | | | |
|--|-----|--|--|
| | • 5 | | |
|--|-----|--|--|

6.8.4. Attributes

6.8.4.1. Exported Attributes

| Name | Property |
|-------------|--------------|
| threadCount | settingValue |

6.9. MediatorNotificationList

6.9.1. Overview

MediatorNotificationList: *Comma-separate list of notification email addresses*

6.9.2. Design

Super Type

[MediatorSetting](#)

| | |
|----------------|--|
| Role | Concrete. (Objects can be created.) |
| Instance Names | Unique |

6.9.3. Attributes

6.9.3.1. Exported Attributes

| Name | Property |
|--------------------------|--------------|
| mediatorNotificationList | settingValue |

6.10. MediatorSetting

6.10.1. Overview

MediatorSetting: *A generic configuration setting for a Mediator*

6.10.2. Design

Super Type

Setting

| | |
|----------------|---|
| Role | Abstract. (Objects cannot be created.) |
| Instance Names | Unique |

6.10.3. Constraints

6.10.3.1. Allowed Parent Dependencies

- [Mediator](#)