

## DOCUMENTATION

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## NAVIGATION

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Package: *Generic\_Router* (*generic*)

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## DESCRIPTION

generic

with package Message\_Structures is

Framework: Uwe R. Zimmer, Australia, 2015

## PACKAGES

**Message\_Structures** (new **Generic\_Message\_Structures**)  
package Message\_Structures is new **Generic\_Message\_Structures** (<>);  
**Router\_Id\_Generator** (new **Id\_Dispenser**)  
package Router\_Id\_Generator is new **Id\_Dispenser** (Element => Router\_Range);  
**Router\_Link** (new **Generic\_Router\_Links**)  
package Router\_Link is new **Generic\_Router\_Links** (Router\_Range, Router\_Task\_P, null);

## TASKS & PROTECTED

### Router\_Task

- [Goto spec in source\\_](#)
- [Goto body in source\\_](#)

(task type)

**Entries:** Task\_Id, Configure, Send\_Message, Receive\_Message, Shutdown

**References:**

[generic\\_router.ads:27:14](#) (declaration)

[generic\\_router.adb:9:14](#) (body)

[generic\\_router.adb:30:8](#) (label)

[generic\\_router.ads:41:8](#) (label)

**Calls:**

[Configure](#) defined at [generic\\_router.ads:29:13](#)

[Exceptions.Show\\_Exception](#) defined at [exceptions.ads:19:14](#)

[Generic\\_Router\\_Links.To\\_Router\\_Ports](#) defined at [generic\\_router\\_links.ads:22:13](#)

[Id\\_Dispenser.Draw\\_Id](#) defined at [id\\_dispenser.ads:11:13](#)

[Receive\\_Message](#) defined at [generic\\_router.ads:32:13](#)

[Send\\_Message](#) defined at [generic\\_router.ads:31:13](#)

[Shutdown](#) defined at [generic\\_router.ads:34:13](#)

# TYPES

## Router\_Task

- [Goto declaration in source\\_](#)

```
type Router_Task;
```

### References:

[generic\\_router.ads:21:9](#) (declaration)

[generic\\_routers.ads:16:52](#) (reference)

[generic\\_router.ads:22:37](#) (reference)

## Router\_Task\_P

- [Goto declaration in source\\_](#)

```
type Router_Task_P is access all Router_Task;
```

### References:

[generic\\_router.ads:22:9](#) (declaration)

[generic\\_router.ads:24:67](#) (reference)

# SUBPROGRAMS & ENTRIES

## Router\_Task.Task\_Id

- [Goto spec in source\\_](#)

```
Task_Id: Router_Range := Draw_Id)
```

### References:

[generic\\_router.ads:27:27](#) (declaration)

[generic\\_router.adb:19:74](#) (reference)

### Called by:

[Router\\_Task](#) defined at [generic\\_router.ads:27:14](#)

[Router\\_Task](#) defined at [generic\\_router.ads:27:14](#)

## Router\_Task.Configure (abstract)

- [Goto spec in source\\_](#)

- [Goto body in source\\_](#)

```
entry Configure
```

```
(    Links
```

```
    :  
      Ids_To_  
      Links
```

### References:

[generic\\_router.ads:29:13](#) (declaration)

[generic\\_routers.adb:46:38](#) (call)

[generic\\_router.adb:14:14](#) (body)

[generic\\_router.adb:16:11](#) (label)

### Called by:

[Router\\_Task](#) defined at [generic\\_router.ads:27:14](#)

[Router\\_Task](#) defined at [generic\\_router.ads:27:14](#)

## Router\_Task.Send\_Message (abstract)

- [Goto spec in source\\_](#)

```
entry Send_Message
```

```
(    Message
```

```
    :  
      Mes  
      sage  
      s_  
      Cli  
      ent
```

### References:

[generic\\_router.ads:31:13](#) (declaration)

[test\\_routers.adb:228:44](#) (call)

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Called by:

*Router\_Task* defined at [generic\\_router.ads:27:14](#)

*Test\_Routers.Send\_Probe* defined at [test\\_routers.adb:224:25](#)

**Router\_Task. Receive\_Message (abstract)**

- **Goto spec in source\_**

entry Receive\_Message

```

:
o
u
t
M
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s
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s
(
Message
_M
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)

```

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References:

[generic\\_router.ads:32:13](#) (declaration)

[test\\_routers.adb:216:46](#) (call)

Called by:

*Router\_Task* defined at [generic\\_router.ads:27:14](#)

*Test\_Routers.Receive\_Probe* defined at [test\\_routers.adb:239:25](#)

**Router\_Task. Shutdown (abstract)**

- **Goto spec in source\_**
- **Goto body in source\_**

entry Shutdown;

References:

[generic\\_router.ads:34:13](#) (declaration)

[generic\\_routers.adb:14:28](#) (call)

[generic\\_router.adb:25:17](#) (body)

Called by:

*Generic\_Routers.Router\_Shutdown* defined at [generic\\_routers.ads:21:14](#)

*Router\_Task* defined at [generic\\_router.ads:27:14](#)

*Router\_Task* defined at [generic\\_router.ads:27:14](#)

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