DOCUMENTATION

NAVIGATION

Package: *Generic_Router (generic)*

- Goto spec source
- Goto body source

DESCRIPTION

generic

```
with package Message_Structures is
```

Framework: Uwe R. Zimmer, Australia, 2015

PACKAGES

```
package Message_St                                  essage_Structures)
                                                    (<>);
package Router_Id_                                  Router_Range);

            Router_Link (new G                    s)
package Router_Link is new Generic_Router_Li        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

- **e**

```
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

                   :
                   Mes
(      Message     sage
                   s_Cli
                   ent
```

References:
generic_router.ads:31:13 (declaration)
test_routers.adb:228:44 (call)

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
```

`: out Messages_Mailbox`

```
(          Message
```

References:
generic_router.ads:32:1
test_routers.adb:240:46
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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