## PyRTAI

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# Namespace Index

## 1.1 Packages

Here are the packages with brief descriptions (if available):

custom_exceptions
Custom exceptions for the library
pyrtai
This package handles the configurations
pyrtai::configurator
pyrtai::connector
pyrtai::custom_exceptions
pyrtai::data_collector
pyrtai::target
pyrtai::utility

## **Class Index**

## 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

pyrtai::configurator::Configurator	13
pyrtai::connector::Connector	17
pyrtai::data_collector::DataCollector	20
pyrtai::custom_exceptions::RtaiError	23
pyrtai::custom_exceptions::RtaiConfigError	21
pyrtai::custom_exceptions::RtaiXmlRpcError	23
pyrtai::target::Target	24

4 Class Index

## **Class Index**

## 3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:	
pyrtai::configurator::Configurator	
Configurator class handles config values	13
pyrtai::connector::Connector	
Connect to the RTAI server and manage responses and basic oper-	
ations on it	17
pyrtai::data_collector::DataCollector	20
pyrtai::custom_exceptions::RtaiConfigError	
Exception raised for errors involving connections	21
pyrtai::custom_exceptions::RtaiError	
Base class for exceptions in this module	23
pyrtai::custom_exceptions::RtaiXmlRpcError	
Exception raised for errors involving connections	23
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## File Index

### 4.1 File List

Here is a list of all files with brief descriptions:

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/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/configurator.py 2	29
/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/connector.py 2	29
/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/custom_exceptions	
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/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/utility.py	31

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## **Namespace Documentation**

### 5.1 custom\_exceptions Namespace Reference

Custom exceptions for the library.

#### 5.1.1 Detailed Description

Custom exceptions for the library.

### 5.2 pyrtai Namespace Reference

This package handles the configurations.

#### **Packages**

- namespace configurator
- namespace connector
- namespace custom\_exceptions
- namespace data\_collector
- namespace target
- namespace utility

#### 5.2.1 Detailed Description

This package handles the configurations. Various useful functions.

Represents the target server (master or slave)

Handles the connection to the RTAI server.

#### See also

pyrtai::connector::Connector pyrtai::target::Target

### 5.3 pyrtai::configurator Namespace Reference

#### **Classes**

· class Configurator

Configurator class handles config values.

### 5.4 pyrtai::connector Namespace Reference

#### Classes

class Connector

The Connector class connect to the RTAI server and manage responses and basic operations on it.

### 5.5 pyrtai::custom\_exceptions Namespace Reference

#### Classes

· class RtaiError

Base class for exceptions in this module.

• class RtaiConfigError

Exception raised for errors involving connections.

· class RtaiXmlRpcError

Exception raised for errors involving connections.

#### 5.6 pyrtai::data\_collector Namespace Reference

#### Classes

class DataCollector

### 5.7 pyrtai::target Namespace Reference

#### **Classes**

class Target

## 5.8 pyrtai::utility Namespace Reference

#### **Functions**

• def getStateFromResponse

Parses an integer state value which, converted into binary value, represents 4 states.

#### 5.8.1 Function Documentation

5.8.1.1 def pyrtai::utility::getStateFromResponse ( int\_state )

Parses an integer state value which, converted into binary value, represents 4 states.

The 4 states are (array indexes): 0 - Target running 1 - Target connected 2 - Target exists 3 - Error occurred

#### **Parameters**

int\_state,: The integer value of the state

#### Returns

: An hash containing explained states

Definition at line 13 of file utility.py.

## **Class Documentation**

### 6.1 pyrtai::configurator::Configurator Class Reference

Configurator class handles config values.

#### **Public Member Functions**

def \_\_init\_\_

The constructor reads the config file, which can be passed as param.

• def setAttr

Sets member vars.

def getAttr

Gets member vars from \_\_dict\_\_ or from the config file if not previously assigned.

• def checklfMasterOrSlave

Assigns the self.is\_slave\_connection var checking if this object describes a master or slave connection.

• def getUrl

Get the full Url to connect to.

#### **Public Attributes**

· config

The ConfigParser instance.

protocol

The protocol to use to connect to the server (HTTP/HTTPS)

• address

The address to connect to.

port

The port to connect to.

host

The host to connect to.

· session id

The session name.

· slave port

The port to be used to connect to slave server.

· slave data port

The port to be used to connect to slave data stream.

target\_name

The name of the target server.

• is\_slave\_connection

Booblean value which indicates if it's a slave connection.

#### 6.1.1 Detailed Description

Configurator class handles config values.

The default action is to check if the value exists then return it or return the value parsed from the config file otherwise. The default file is defaults.cfg but a different one can be passed as parameter to the constructor.

#### 6.1.2 Constructor & Destructor Documentation

6.1.2.1 def pyrtai::configurator::\_\_init\_\_ ( self, config\_file = None )

The constructor reads the config file, which can be passed as param.

Raises a RtaiConfigError if the file can't be found.

#### **Parameters**

config_file	The path to the config file.	If not specified is used defaults.cfg in the
	script directory	

Definition at line 48 of file configurator.py.

#### 6.1.3 Member Function Documentation

6.1.3.1 def pyrtai::configurator::Configurator::checklfMasterOrSlave ( self )

Assigns the self.is\_slave\_connection var checking if this object describes a master or slave connection.

The check consists in comparing the connection port assigned and the one read from the config file (which is the port of the master connection)

Definition at line 99 of file configurator.py.

6.1.3.2 def pyrtai::configurator::Configurator::getAttr ( self, key )

Gets member vars from \_\_dict\_\_ or from the config file if not previously assigned.

#### **Parameters**

key	The name of the member var to retrieve

#### **Returns**

The value of the var. None if not present in the \_\_dict\_\_ or in the config file

Definition at line 82 of file configurator.py.

6.1.3.3 def pyrtai::configurator::Configurator::getUrl ( self )

Get the full Url to connect to.

#### Returns

Returns the address of the target server, e.g. http://192.168.1.1:29500

Definition at line 104 of file configurator.py.

6.1.3.4 def pyrtai::configurator::Configurator::setAttr ( self, key, value )

Sets member vars.

#### **Parameters**

key	The name of the var
value	The value to assign to the var

#### Returns

The value of the assigned var

Definition at line 75 of file configurator.py.

#### 6.1.4 Member Data Documentation

#### 6.1.4.1 pyrtai::configurator::Configurator::address

The address to connect to.

Definition at line 48 of file configurator.py.

6.1.4.2 pyrtai::configurator::Configurator::config

The ConfigParser instance.

Definition at line 48 of file configurator.py.

6.1.4.3 pyrtai::configurator::Configurator::host

The host to connect to.

It can be built using PROTOCOL://ADDRESS:PORT

Definition at line 48 of file configurator.py.

6.1.4.4 pyrtai::configurator::Configurator::is\_slave\_connection

Booblean value which indicates if it's a slave connection.

It's a master collection if False

Definition at line 48 of file configurator.py.

6.1.4.5 pyrtai::configurator::Configurator::port

The port to connect to.

Definition at line 48 of file configurator.py.

6.1.4.6 pyrtai::configurator::Configurator::protocol

The protocol to use to connect to the server (HTTP/HTTPS)

Definition at line 48 of file configurator.py.

6.1.4.7 pyrtai::configurator::Configurator::session\_id

The session name.

Definition at line 48 of file configurator.py.

6.1.4.8 pyrtai::configurator::Configurator::slave\_data\_port

The port to be used to connect to slave data stream.

Definition at line 48 of file configurator.py.

6.1.4.9 pyrtai::configurator::Configurator::slave\_port

The port to be used to connect to slave server.

Definition at line 48 of file configurator.py.

6.1.4.10 pyrtai::configurator::Configurator::target\_name

The name of the target server.

Definition at line 48 of file configurator.py.

The documentation for this class was generated from the following file:

/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/configurator.py

### 6.2 pyrtai::connector::Connector Class Reference

The Connector class connect to the RTAI server and manage responses and basic operations on it.

#### **Public Member Functions**

def init

The constructor instantiates the configurator::Configurator object.

def Connection\_Request

Connect to the target server and handles the response to extract the slave server data params.

def connectSlave

Connect to Slave server.

def disconnect

Disconnect from the server.

• def closeSession

Detach the session.

def stopServer

Stops master server.

• def getInfo

Calls Info\_RT on the server.

def callMethod

Debug method to call functions directly to RPC connection.

#### **Public Attributes**

connection

xmlrpclib::ServerProxy connection to XML-RPC server

#### 6.2.1 Detailed Description

The Connector class connect to the RTAI server and manage responses and basic operations on it.

#### 6.2.2 Constructor & Destructor Documentation

6.2.2.1 def pyrtai::connector::Connector::\_init\_\_( self, protocol = None, address = None, port = None, target\_name = None)

The constructor instantiates the configurator::Configurator object.

Definition at line 15 of file connector.py.

#### 6.2.3 Member Function Documentation

6.2.3.1 def pyrtai::connector::Connector::callMethod ( self, function\_name, params )

Debug method to call functions directly to RPC connection.

#### **Parameters**

function	The name of the method to call
name	
params	The params to pass to the method above

#### Returns

The response of the call

Definition at line 143 of file connector.py.

6.2.3.2 def pyrtai::connector::Connector::closeSession ( self, config )

Detach the session.

#### **Parameters**

config	The configurator::Configurator object, shared with the target::Target in-	]
	stance	

#### Returns

The boolean result of the operation

Definition at line 73 of file connector.py.

6.2.3.3 def pyrtai::connector::Connector::Connection\_Request ( self, config )

Connect to the target server and handles the response to extract the slave server data params.

The data is saved in the configurator::Configurator object passed as first param.

#### **Parameters**

config	The configurator::Configurator object, shared with the target::Target in-
	stance

#### **Returns**

The boolean result of the operation

Definition at line 23 of file connector.py.

6.2.3.4 def pyrtai::connector::Connector::connectSlave ( self, config )

Connect to Slave server.

#### **Parameters**

config	The configurator::Configurator object, shared with the target::Target in-
	stance

#### Returns

The boolean result of the operation

Definition at line 40 of file connector.py.

6.2.3.5 def pyrtai::connector::Connector::disconnect ( self, session\_id )

Disconnect from the server.

#### **Parameters**

session_id	The session ID

#### Returns

The boolean result of the operation

Definition at line 58 of file connector.py.

6.2.3.6 def pyrtai::connector::Connector::getInfo ( self )

Calls Info\_RT on the server.

#### Returns

The boolean result of the operation

Definition at line 118 of file connector.py.

6.2.3.7 def pyrtai::connector::Connector::stopServer ( self, target\_name )

Stops master server.

#### **Parameters**

target_name	The Target name
-------------	-----------------

#### Returns

The boolean result of the operation

Definition at line 96 of file connector.py.

#### 6.2.4 Member Data Documentation

6.2.4.1 pyrtai::connector::Connector::connection

xmlrpclib::ServerProxy connection to XML-RPC server

Definition at line 15 of file connector.py.

The documentation for this class was generated from the following file:

/home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/connector.py

### 6.3 pyrtai::data\_collector::DataCollector Class Reference

#### **Public Member Functions**

def \_\_init\_\_

#### **Public Attributes**

• input

The input stream.

output

The output stream.

#### 6.3.1 Constructor & Destructor Documentation

6.3.1.1 def pyrtai::data\_collector::DataCollector::\_\_init\_\_ ( self )

Definition at line 13 of file data\_collector.py.

#### 6.3.2 Member Data Documentation

6.3.2.1 pyrtai::data\_collector::DataCollector::input

The input stream.

Definition at line 13 of file data\_collector.py.

#### 6.3.2.2 pyrtai::data\_collector::DataCollector::output

The output stream.

Definition at line 13 of file data\_collector.py.

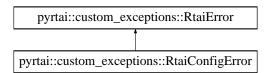
The documentation for this class was generated from the following file:

• /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/data\_collector.py

### 6.4 pyrtai::custom\_exceptions::RtaiConfigError Class Reference

Exception raised for errors involving connections.

Inheritance diagram for pyrtai::custom\_exceptions::RtaiConfigError:



#### **Public Member Functions**

• def \_\_init\_\_

Saves expr and msg of the error.

def \_\_str\_\_

Returns string representation of the error.

#### **Public Attributes**

expr

Input expression in which the error occurred.

• msg

Explanation of the error.

#### 6.4.1 Detailed Description

Exception raised for errors involving connections.

#### 6.4.2 Constructor & Destructor Documentation

6.4.2.1 def pyrtai::custom\_exceptions::RtaiConfigError::\_\_init\_\_ ( self, expr, msg )

Saves expr and msg of the error.

Definition at line 18 of file custom exceptions.py.

#### 6.4.3 Member Function Documentation

6.4.3.1 def pyrtai::custom\_exceptions::RtaiConfigError::\_\_str\_\_ ( self )

Returns string representation of the error.

Definition at line 23 of file custom\_exceptions.py.

#### 6.4.4 Member Data Documentation

#### 6.4.4.1 pyrtai::custom\_exceptions::RtaiConfigError::expr

Input expression in which the error occurred.

Definition at line 18 of file custom\_exceptions.py.

#### 6.4.4.2 pyrtai::custom\_exceptions::RtaiConfigError::msg

Explanation of the error.

Definition at line 18 of file custom\_exceptions.py.

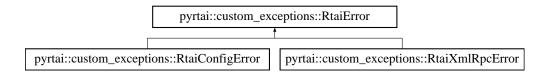
The documentation for this class was generated from the following file:

 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/custom\_exceptions.py

### 6.5 pyrtai::custom\_exceptions::RtaiError Class Reference

Base class for exceptions in this module.

Inheritance diagram for pyrtai::custom\_exceptions::RtaiError:



#### 6.5.1 Detailed Description

Base class for exceptions in this module.

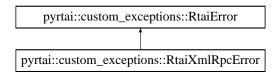
The documentation for this class was generated from the following file:

 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/custom\_exceptions.py

### 6.6 pyrtai::custom\_exceptions::RtaiXmlRpcError Class Reference

Exception raised for errors involving connections.

Inheritance diagram for pyrtai::custom\_exceptions::RtaiXmlRpcError:



#### **Public Member Functions**

def init

Saves expr and msg of the error.

def \_\_str\_\_

Returns string representation of the error.

#### **Public Attributes**

expr

Input expression in which the error occurred.

• msg

Explanation of the error.

#### 6.6.1 Detailed Description

Exception raised for errors involving connections.

#### 6.6.2 Constructor & Destructor Documentation

6.6.2.1 def pyrtai::custom\_exceptions::RtaiXmlRpcError::\_\_init\_\_ ( self, expr, msg )

Saves expr and msg of the error.

Definition at line 36 of file custom\_exceptions.py.

#### 6.6.3 Member Function Documentation

6.6.3.1 def pyrtai::custom\_exceptions::RtaiXmlRpcError::\_\_str\_\_ ( self )

Returns string representation of the error.

Definition at line 41 of file custom\_exceptions.py.

#### 6.6.4 Member Data Documentation

#### 6.6.4.1 pyrtai::custom\_exceptions::RtaiXmlRpcError::expr

Input expression in which the error occurred.

Definition at line 36 of file custom\_exceptions.py.

#### 6.6.4.2 pyrtai::custom\_exceptions::RtaiXmlRpcError::msg

Explanation of the error.

Definition at line 36 of file custom\_exceptions.py.

The documentation for this class was generated from the following file:

 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/custom\_exceptions.py

### 6.7 pyrtai::target::Target Class Reference

#### **Public Member Functions**

def init

Target initializer.

· def connect

Connect to the target server.

def disconnect

Disconnects from the XML-RPC server.

def stopServer

Stops master server.

· def close

Closes the session.

• def getSlave

Checks if master and if affirmative, returns the slave.

#### **Public Attributes**

slave

The slave Target.

· config

A configurator::Configurator object.

• connection

A connector::Connector instance used to send commands to XML-RPC connection.

#### 6.7.1 Constructor & Destructor Documentation

```
6.7.1.1 def pyrtai::target::_init__ ( self, protocol = None, address = None, port = None, target_name = None)
```

Target initializer.

If the params are None, they're extracted from self.configurator

Definition at line 19 of file target.py.

#### 6.7.2 Member Function Documentation

```
6.7.2.1 def pyrtai::target::Target::close ( self )
```

Closes the session.

Returns

The boolean result of the operation

Definition at line 66 of file target.py.

```
6.7.2.2 def pyrtai::target::Target::connect ( self )
Connect to the target server.
Checks if master or server and call the right method on connector::Connector
Returns
    The boolean result of the operation
Definition at line 40 of file target.py.
6.7.2.3 def pyrtai::target::Target::disconnect ( self )
Disconnects from the XML-RPC server.
Returns
    The boolean result of the operation
Definition at line 48 of file target.py.
6.7.2.4 def pyrtai::target::Target::getSlave ( self )
Checks if master and if affirmative, returns the slave.
Returns
    The slave Target or False if not a master target
Definition at line 71 of file target.py.
6.7.2.5 def pyrtai::target::Target::stopServer ( self )
Stops master server.
Returns
    The boolean result of the operation
Definition at line 57 of file target.py.
6.7.3 Member Data Documentation
```

6.7.3.1 pyrtai::target::Target::config

A configurator::Configurator object.

Definition at line 19 of file target.py.

#### 6.7.3.2 pyrtai::target::Target::connection

A connector::Connector instance used to send commands to XML-RPC connection.

Definition at line 19 of file target.py.

#### 6.7.3.3 pyrtai::target::Target::slave

The slave Target.

Definition at line 19 of file target.py.

The documentation for this class was generated from the following file:

• /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/target.py

## **File Documentation**

7.1 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/\_-init\_\_.py File Reference

#### **Packages**

• namespace pyrtai

This package handles the configurations.

7.2 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/configurator.py File Reference

#### **Classes**

class pyrtai::configurator::Configurator
 Configurator class handles config values.

#### **Packages**

- namespace pyrtai::configurator
- · namespace pyrtai

This package handles the configurations.

7.3 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/connector.py File Reference

#### **Classes**

· class pyrtai::connector::Connector

The Connector class connect to the RTAI server and manage responses and basic operations on it.

#### **Packages**

- · namespace pyrtai::connector
- · namespace pyrtai

This package handles the configurations.

## 7.4 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/custom-\_exceptions.py File Reference

#### Classes

- · class pyrtai::custom\_exceptions::RtaiError
  - Base class for exceptions in this module.
- · class pyrtai::custom\_exceptions::RtaiConfigError
  - Exception raised for errors involving connections.
- class pyrtai::custom\_exceptions::RtaiXmlRpcError

Exception raised for errors involving connections.

### **Packages**

- namespace pyrtai::custom\_exceptions
- namespace custom\_exceptions

Custom exceptions for the library.

## 7.5 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/data-\_collector.py File Reference

#### Classes

· class pyrtai::data\_collector::DataCollector

#### **Packages**

• namespace pyrtai::data\_collector

# 7.6 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/target.py File Reference

#### **Classes**

• class pyrtai::target::Target

#### **Packages**

- · namespace pyrtai::target
- · namespace pyrtai

This package handles the configurations.

# 7.7 /home/drwolf/Devel/Remote-RTAI-lib/Python Library/pyrtai/utility.py File Reference

#### **Packages**

- · namespace pyrtai::utility
- namespace pyrtai

This package handles the configurations.

#### **Functions**

• def pyrtai::utility::getStateFromResponse

Parses an integer state value which, converted into binary value, represents 4 states.