

RBPEL

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# Chapter 1

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## Chapter 2

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## Chapter 3

# Namespace Documentation

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#### Packages

- package [tclouds](#)

### 3.2 Package eu.tclouds

#### Packages

- package [rbpel](#)

### 3.3 Package eu.tclouds.rbpel

#### Packages

- package [config](#)
- package [demo](#)
- package [system](#)
- package [util](#)

### 3.4 Package eu.tclouds.rbpel.config

#### Classes

- class [ConfigurationException](#)
- class [GroupConfig](#)
- class [HostConfig](#)
- class [PropsFile](#)
- class [ScenarioConfig](#)
- class [ServiceConfig](#)
- class [ServiceInstanceConfig](#)

### 3.5 Package eu.tclouds.rbpel.demo

#### Packages

- package [adder](#)
- package [calculator](#)
- package [multiplier](#)

#### Classes

- class [ConfigHelper](#)
- class [ProxyServer](#)
- class [ReplicaServer](#)
- class [RMIProxyServer](#)
- class [ServiceClient](#)
- class [ServiceProxy](#)
- class [ServiceServer](#)
- class [SOAPProxyServer](#)
- class [ThroughputClientBase](#)

### 3.6 Package eu.tclouds.rbpel.demo.adder

#### Classes

- class [Add](#)
- interface [Adder](#)
- interface [AdderClient](#)
- class [AdderProxy](#)
- class [AdderService](#)
- class [AddResponse](#)

### 3.7 Package eu.tclouds.rbpel.demo.calculator

#### Classes

- interface [Calculator](#)
- class [CalculatorProxy](#)
- class [CalculatorService](#)
- interface [TransCalculator](#)
- class [TransCalculatorService](#)

### 3.8 Package eu.tclouds.rbpel.demo.multiplier

#### Classes

- interface [Multiplier](#)
- class [MultiplierProxy](#)
- class [MultiplierService](#)



## 3.9 Package eu.tclouds.rbpel.system

### Packages

- package [connect](#)
- package [proxies](#)
- package [registry](#)
- package [zookeeper](#)

### Classes

- interface [InputProxy](#)
- interface [InputProxyClient](#)
- interface [InputProxyConnector](#)
- class [InputProxyDispatcher](#)
- class [InvocationHandler](#)
- interface [InvocationReplica](#)
- interface [InvocationReplicaListener](#)
- class [InvocationResolver](#)
- interface [InvocationService](#)
- interface [OutputProxy](#)
- interface [OutputProxyFactory](#)
- class [RequestID](#)
- interface [ServiceRegistry](#)

## 3.10 Package eu.tclouds.rbpel.system.connect

### Classes

- class [InputProxyConnectorBase](#)
- class [ReceiveReply](#)
- class [ReceiveReplyResponse](#)
- interface [RMInputProxy](#)
- class [RMInputProxyClient](#)
- class [RMInputProxyConnector](#)
- class [RMInputProxyServer](#)
- class [RMIPublisher](#)
- class [SendRequest](#)
- class [SendRequestResponse](#)
- interface [SOAPInputProxy](#)
- class [SOAPInputProxyConnector](#)
- class [SOAPInputProxyService](#)
- class [SOAPPublisher](#)

## 3.11 Package eu.tclouds.rbpel.system.proxies

### Packages

- package [jgroups](#)
- package [zookeeper](#)

## Classes

- class [InputProxyBase](#)
- class [InvocationReplicaBase](#)
- class [OutputProxyBase](#)
- class [OutputProxyFactoryBase](#)
- class [RequestRecord](#)

## 3.12 Package eu.tclouds.rbpel.system.proxies.jgroups

### Classes

- class [JGroupsHelper](#)
- class [JGroupsInputProxy](#)
- class [JGroupsInvocationReplica](#)
- class [JGroupsOutputProxy](#)
- class [JGroupsOutputProxyFactory](#)
- class [RequestMessage](#)

## 3.13 Package eu.tclouds.rbpel.system.proxies.zookeeper

### Classes

- class [ZooKeeperInputProxy](#)
- class [ZooKeeperInvocationReplica](#)
- class [ZooKeeperOutputProxy](#)
- class [ZooKeeperOutputProxyFactory](#)

## 3.14 Package eu.tclouds.rbpel.system.registry

### Classes

- class [ReplicaEntry](#)
- class [ServiceEntry](#)
- class [ServiceRegistryBase](#)
- class [ZooKeeperReplicaConnection](#)
- class [ZooKeeperReplicaData](#)
- class [ZooKeeperServiceRegistry](#)

## 3.15 Package eu.tclouds.rbpel.system.zookeeper

### Classes

- enum [Directory](#)
- class [RBPELZooKeeper](#)

## 3.16 Package eu.tclouds.rbpel.util

### Classes

- class [ArgumentNullException](#)
- class [Convert](#)
- class [DateHelper](#)
- class [ExceptionHandler](#)
- class [LogHandler](#)
- class [MeasurementResult](#)
- class [PerformanceCounter](#)
- class [PerformanceLogger](#)
- class [PlainFormatter](#)
- class [Profiler](#)
- class [SingleHandlerResolver](#)
- class [SOAPMessages](#)
- class [StackTrace](#)

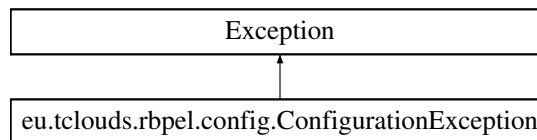


## Chapter 4

# Class Documentation

### 4.1 eu.tclouds.rbpel.config.ConfigurationException Class Reference

Inheritance diagram for eu.tclouds.rbpel.config.ConfigurationException:



#### Public Member Functions

- [ConfigurationException](#) ()
- [ConfigurationException](#) (String msg)
- [ConfigurationException](#) (Throwable cause)
- [ConfigurationException](#) (String msg, Throwable cause)

#### 4.1.1 Constructor & Destructor Documentation

4.1.1.1 eu.tclouds.rbpel.config.ConfigurationException.ConfigurationException ( )

4.1.1.2 eu.tclouds.rbpel.config.ConfigurationException.ConfigurationException ( String *msg* )

4.1.1.3 eu.tclouds.rbpel.config.ConfigurationException.ConfigurationException ( Throwable *cause* )

4.1.1.4 eu.tclouds.rbpel.config.ConfigurationException.ConfigurationException ( String *msg*, Throwable *cause* )

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

- src/eu/tclouds/rbpel/config/ConfigurationException.java

### 4.2 eu.tclouds.rbpel.config.GroupConfig Class Reference

#### Public Member Functions

- [GroupConfig](#) (int f, String svcpub, String proxypub, String proxycoord, Map< URI, [ServiceConfig](#) > services, List< [HostConfig](#) > hosts)

- final int [getF](#) ()
- final int [getNumberOfReplicas](#) ()
- final String [getServicePublisher](#) ()
- final String [getProxyPublisher](#) ()
- final String [getProxyCoordinator](#) ()
- Map< URI, [ServiceInstanceConfig](#) > [getServices](#) ()
- List< [HostConfig](#) > [getHosts](#) ()

#### 4.2.1 Constructor & Destructor Documentation

4.2.1.1 `eu.tclouds.rbpel.config.GroupConfig.GroupConfig ( int f, String svcpub, String proxypub, String proxycoord, Map< URI, ServiceConfig > services, List< HostConfig > hosts )`

#### 4.2.2 Member Function Documentation

4.2.2.1 `final int eu.tclouds.rbpel.config.GroupConfig.getF ( )`

4.2.2.2 `List<HostConfig> eu.tclouds.rbpel.config.GroupConfig.getHosts ( )`

4.2.2.3 `final int eu.tclouds.rbpel.config.GroupConfig.getNumberOfReplicas ( )`

4.2.2.4 `final String eu.tclouds.rbpel.config.GroupConfig.getProxyCoordinator ( )`

4.2.2.5 `final String eu.tclouds.rbpel.config.GroupConfig.getProxyPublisher ( )`

4.2.2.6 `final String eu.tclouds.rbpel.config.GroupConfig.getServicePublisher ( )`

4.2.2.7 `Map<URI, ServiceInstanceConfig> eu.tclouds.rbpel.config.GroupConfig.getServices ( )`

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

- `src/eu/tclouds/rbpel/config/GroupConfig.java`

### 4.3 eu.tclouds.rbpel.config.HostConfig Class Reference

#### Public Member Functions

- [HostConfig](#) (String hostname, int ctrlport, int httpport, int proxyport, int invsvcpport, int auxport)
- final URI [getReplicaURI](#) ([ServiceInstanceConfig](#) sc) throws ConfigurationException
- final URI [getReplicaURI](#) (String relurl) throws ConfigurationException
- final URI [getProxyURI](#) () throws ConfigurationException
- final URI [getProxyPublishURI](#) () throws ConfigurationException
- final URI [getInvocationServiceURI](#) () throws ConfigurationException
- final String [getHostname](#) ()
- final int [getControlPort](#) ()
- final int [getHTTPPort](#) ()
- final int [getProxyPort](#) ()
- final int [getInvocationServicePort](#) ()
- final int [getAuxiliaryPort](#) ()

### 4.3.1 Constructor & Destructor Documentation

4.3.1.1 eu.tclouds.rbpel.config.HostConfig.HostConfig ( String *hostname*, int *ctrlport*, int *httpport*, int *proxyport*, int *invsvcport*, int *auxport* )

### 4.3.2 Member Function Documentation

4.3.2.1 final int eu.tclouds.rbpel.config.HostConfig.getAuxiliaryPort ( )

4.3.2.2 final int eu.tclouds.rbpel.config.HostConfig.getControlPort ( )

4.3.2.3 final String eu.tclouds.rbpel.config.HostConfig.getHostname ( )

4.3.2.4 final int eu.tclouds.rbpel.config.HostConfig.getHTTPPort ( )

4.3.2.5 final int eu.tclouds.rbpel.config.HostConfig.getInvocationServicePort ( )

4.3.2.6 final URI eu.tclouds.rbpel.config.HostConfig.getInvocationServiceURI ( ) throws ConfigurationException

4.3.2.7 final int eu.tclouds.rbpel.config.HostConfig.getProxyPort ( )

4.3.2.8 final URI eu.tclouds.rbpel.config.HostConfig.getProxyPublishURI ( ) throws ConfigurationException

4.3.2.9 final URI eu.tclouds.rbpel.config.HostConfig.getProxyURI ( ) throws ConfigurationException

4.3.2.10 final URI eu.tclouds.rbpel.config.HostConfig.getReplicaURI ( ServiceInstanceConfig *sc* ) throws ConfigurationException

4.3.2.11 final URI eu.tclouds.rbpel.config.HostConfig.getReplicaURI ( String *relurl* ) throws ConfigurationException

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

- src/eu/tclouds/rbpel/config/HostConfig.java

## 4.4 eu.tclouds.rbpel.config.PropsFile Class Reference

### Static Public Member Functions

- static Properties [load](#) (String *path*) throws FileNotFoundException, IOException
- static Properties [load](#) (InputStream *src*) throws FileNotFoundException, IOException

### 4.4.1 Member Function Documentation

4.4.1.1 static Properties eu.tclouds.rbpel.config.PropsFile.load ( String *path* ) throws FileNotFoundException, IOException  
[static]

4.4.1.2 static Properties eu.tclouds.rbpel.config.PropsFile.load ( InputStream *src* ) throws FileNotFoundException, IOException  
[static]

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

- src/eu/tclouds/rbpel/config/PropsFile.java

## 4.5 eu.tclouds.rbpel.config.ScenarioConfig Class Reference

### Public Member Functions

- [ScenarioConfig](#) (Properties props)
- List< [GroupConfig](#) > [getGroups](#) () throws ConfigurationException
- [GroupConfig](#) [getGroup](#) (int groupid) throws ConfigurationException
- Map< URI, [ServiceConfig](#) > [getServices](#) (int groupid) throws ConfigurationException
- [ServiceInstanceConfig](#) [getServiceInstance](#) (URI svcurl) throws ConfigurationException
- String [getZooKeeperConStr](#) () throws ConfigurationException
- [HostConfig](#) [getHost](#) (int groupid, int hostno) throws ConfigurationException

### Static Public Member Functions

- static [ScenarioConfig](#) [load](#) (String path) throws FileNotFoundException, IOException
- static [ScenarioConfig](#) [load](#) (InputStream src) throws FileNotFoundException, IOException

### Protected Attributes

- final Properties [m\\_props](#)

### 4.5.1 Constructor & Destructor Documentation

4.5.1.1 `eu.tclouds.rbpel.config.ScenarioConfig.ScenarioConfig ( Properties props )`

### 4.5.2 Member Function Documentation

4.5.2.1 `GroupConfig eu.tclouds.rbpel.config.ScenarioConfig.getGroup ( int groupid )` throws ConfigurationException

4.5.2.2 `List<GroupConfig> eu.tclouds.rbpel.config.ScenarioConfig.getGroups ( )` throws ConfigurationException

4.5.2.3 `HostConfig eu.tclouds.rbpel.config.ScenarioConfig.getHost ( int groupid, int hostno )` throws ConfigurationException

4.5.2.4 `ServiceInstanceConfig eu.tclouds.rbpel.config.ScenarioConfig.getServiceInstance ( URI svcurl )` throws ConfigurationException

4.5.2.5 `Map<URI, ServiceConfig> eu.tclouds.rbpel.config.ScenarioConfig.getServices ( int groupid )` throws ConfigurationException

4.5.2.6 `String eu.tclouds.rbpel.config.ScenarioConfig.getZooKeeperConStr ( )` throws ConfigurationException

4.5.2.7 `static ScenarioConfig eu.tclouds.rbpel.config.ScenarioConfig.load ( String path )` throws FileNotFoundException, IOException `[static]`

4.5.2.8 `static ScenarioConfig eu.tclouds.rbpel.config.ScenarioConfig.load ( InputStream src )` throws FileNotFoundException, IOException `[static]`

### 4.5.3 Member Data Documentation

4.5.3.1 `final Properties eu.tclouds.rbpel.config.ScenarioConfig.m_props` `[protected]`

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

- `src/eu/tclouds/rbpel/config/ScenarioConfig.java`



## 4.6 eu.tclouds.rbpel.config.ServiceConfig Class Reference

### Public Member Functions

- [ServiceConfig](#) (boolean iscomp, URI wsdlurl, Class<?> svcclass, Class<?> transclass, Class<?> proxyclass, String jaxwsrelurl, String oderelurl, String tcrelurl, String ttcrelurl)
- final boolean [isComposed](#) ()
- final URI [getDescriptionURI](#) ()
- final Class<?> [getServiceClass](#) ()
- final Class<?> [getTransformedClass](#) ()
- final Class<?> [getProxyClass](#) ()
- final String [getJAXWSRelativeURI](#) ()
- final String [getODERelativeURI](#) ()
- final String [getTomcatRelativeURI](#) ()
- final String [getTransTomcatRelativeURI](#) ()

### 4.6.1 Constructor & Destructor Documentation

- 4.6.1.1 `eu.tclouds.rbpel.config.ServiceConfig.ServiceConfig ( boolean iscomp, URI wsdlurl, Class<?> svcclass, Class<?> transclass, Class<?> proxyclass, String jaxwsrelurl, String oderelurl, String tcrelurl, String ttcrelurl )`

### 4.6.2 Member Function Documentation

- 4.6.2.1 `final URI eu.tclouds.rbpel.config.ServiceConfig.getDescriptionURI ( )`
- 4.6.2.2 `final String eu.tclouds.rbpel.config.ServiceConfig.getJAXWSRelativeURI ( )`
- 4.6.2.3 `final String eu.tclouds.rbpel.config.ServiceConfig.getODERelativeURI ( )`
- 4.6.2.4 `final Class<?> eu.tclouds.rbpel.config.ServiceConfig.getProxyClass ( )`
- 4.6.2.5 `final Class<?> eu.tclouds.rbpel.config.ServiceConfig.getServiceClass ( )`
- 4.6.2.6 `final String eu.tclouds.rbpel.config.ServiceConfig.getTomcatRelativeURI ( )`
- 4.6.2.7 `final Class<?> eu.tclouds.rbpel.config.ServiceConfig.getTransformedClass ( )`
- 4.6.2.8 `final String eu.tclouds.rbpel.config.ServiceConfig.getTransTomcatRelativeURI ( )`
- 4.6.2.9 `final boolean eu.tclouds.rbpel.config.ServiceConfig.isComposed ( )`

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

- `src/eu/tclouds/rbpel/config/ServiceConfig.java`

## 4.7 eu.tclouds.rbpel.config.ServiceInstanceConfig Class Reference

### Public Member Functions

- [ServiceInstanceConfig](#) (URI svcurl, [ServiceConfig](#) svcconf, [GroupConfig](#) grpconf)
- URI [getServiceURI](#) ()
- String [getRelativeURI](#) ()
- [ServiceConfig](#) [getService](#) ()
- [GroupConfig](#) [getGroup](#) ()

#### 4.7.1 Constructor & Destructor Documentation

4.7.1.1 `eu.tclouds.rbpel.config.ServiceInstanceConfig.ServiceInstanceConfig ( URI svcurl, ServiceConfig svconf, GroupConfig grpconf )`

#### 4.7.2 Member Function Documentation

4.7.2.1 `GroupConfig eu.tclouds.rbpel.config.ServiceInstanceConfig.getGroup ( )`

4.7.2.2 `String eu.tclouds.rbpel.config.ServiceInstanceConfig.getRelativeURI ( )`

4.7.2.3 `ServiceConfig eu.tclouds.rbpel.config.ServiceInstanceConfig.getService ( )`

4.7.2.4 `URI eu.tclouds.rbpel.config.ServiceInstanceConfig.getServiceURI ( )`

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

- `src/eu/tclouds/rbpel/config/ServiceInstanceConfig.java`

### 4.8 eu.tclouds.rbpel.demo.adder.Add Class Reference

#### Public Member Functions

- `int getArg0 ( )`
- `void setArg0 (int value)`
- `int getArg1 ( )`
- `void setArg1 (int value)`

#### 4.8.1 Member Function Documentation

4.8.1.1 `int eu.tclouds.rbpel.demo.adder.Add.getArg0 ( )`

4.8.1.2 `int eu.tclouds.rbpel.demo.adder.Add.getArg1 ( )`

4.8.1.3 `void eu.tclouds.rbpel.demo.adder.Add.setArg0 ( int value )`

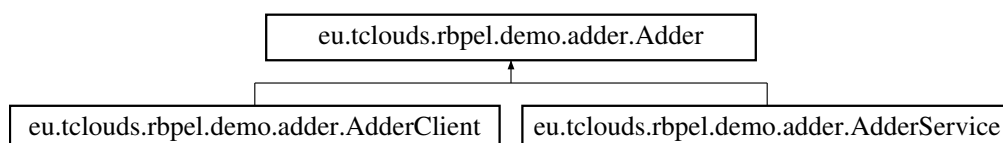
4.8.1.4 `void eu.tclouds.rbpel.demo.adder.Add.setArg1 ( int value )`

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

- `src/eu/tclouds/rbpel/demo/adder/Add.java`

### 4.9 eu.tclouds.rbpel.demo.adder.Adder Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.adder.Adder`:



## Public Member Functions

- int [add](#) (int a, int b)

### 4.9.1 Member Function Documentation

#### 4.9.1.1 int eu.tclouds.rbpel.demo.adder.Adder.add ( int a, int b )

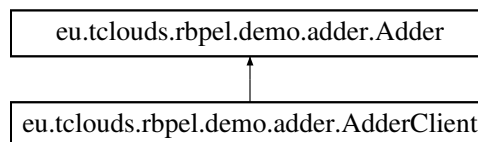
Implemented in [eu.tclouds.rbpel.demo.adder.AdderClient](#), and [eu.tclouds.rbpel.demo.adder.AdderService](#).

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

- src/eu/tclouds/rbpel/demo/adder/Adder.java

## 4.10 eu.tclouds.rbpel.demo.adder.AdderClient Interface Reference

Inheritance diagram for eu.tclouds.rbpel.demo.adder.AdderClient:



## Public Member Functions

- Response< [AddResponse](#) > [addAsync](#) (int a, int b)
- int [add](#) (int a, int b)

### 4.10.1 Member Function Documentation

#### 4.10.1.1 int eu.tclouds.rbpel.demo.adder.AdderClient.add ( int a, int b )

Implements [eu.tclouds.rbpel.demo.adder.Adder](#).

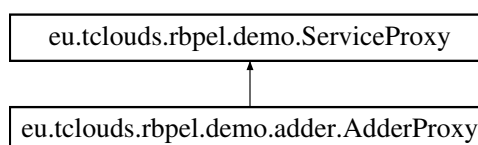
#### 4.10.1.2 Response<AddResponse> eu.tclouds.rbpel.demo.adder.AdderClient.addAsync ( int a, int b )

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

- src/eu/tclouds/rbpel/demo/adder/AdderClient.java

## 4.11 eu.tclouds.rbpel.demo.adder.AdderProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.adder.AdderProxy:



## Protected Member Functions

- QName [getServiceName](#) ()
- void [invoke](#) (int reqno)
- BindingProvider [connect](#) (Service svc)

## Additional Inherited Members

### 4.11.1 Member Function Documentation

4.11.1.1 BindingProvider eu.tclouds.rbpel.demo.adder.AdderProxy.connect ( Service *svc* ) [protected],[virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.11.1.2 QName eu.tclouds.rbpel.demo.adder.AdderProxy.getServiceName ( ) [protected],[virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.11.1.3 void eu.tclouds.rbpel.demo.adder.AdderProxy.invoke ( int *reqno* ) [protected],[virtual]

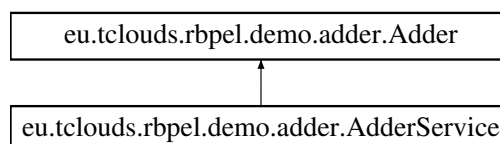
Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

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

- src/eu/tclouds/rbpel/demo/adder/AdderProxy.java

## 4.12 eu.tclouds.rbpel.demo.adder.AdderService Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.adder.AdderService:



## Public Member Functions

- int [add](#) (int a, int b)

### 4.12.1 Member Function Documentation

4.12.1.1 int eu.tclouds.rbpel.demo.adder.AdderService.add ( int *a*, int *b* )

Implements [eu.tclouds.rbpel.demo.adder.Adder](#).

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

- src/eu/tclouds/rbpel/demo/adder/AdderService.java

## 4.13 eu.tclouds.rbpel.demo.adder.AddResponse Class Reference

### Public Member Functions

- [int getResult\(\)](#)

### Protected Attributes

- [int m\\_res](#)

#### 4.13.1 Member Function Documentation

4.13.1.1 [int eu.tclouds.rbpel.demo.adder.AddResponse.getResult\(\)](#)

#### 4.13.2 Member Data Documentation

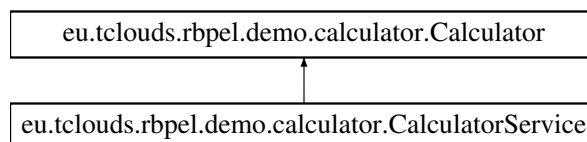
4.13.2.1 [int eu.tclouds.rbpel.demo.adder.AddResponse.m\\_res](#) `[protected]`

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

- [src/eu/tclouds/rbpel/demo/adder/AddResponse.java](#)

## 4.14 eu.tclouds.rbpel.demo.calculator.Calculator Interface Reference

Inheritance diagram for eu.tclouds.rbpel.demo.calculator.Calculator:



### Public Member Functions

- [int multiplyadd\(@WebParam\(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/"\) int a, @WebParam\(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/"\) int b, @WebParam\(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/"\) int c\)](#)

#### 4.14.1 Member Function Documentation

4.14.1.1 [int eu.tclouds.rbpel.demo.calculator.Calculator.multiplyadd\(@WebParam\(targetNamespace="http://calculator.-demo.rbpel.tclouds.eu/"\) int a, @WebParam\(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/"\) int b, @WebParam\(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/"\) int c\)](#)

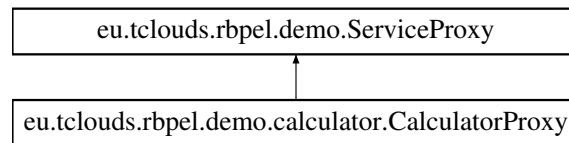
Implemented in [eu.tclouds.rbpel.demo.calculator.CalculatorService](#).

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

- [src/eu/tclouds/rbpel/demo/calculator/Calculator.java](#)

## 4.15 eu.tclouds.rbpel.demo.calculator.CalculatorProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.calculator.CalculatorProxy:



### Protected Member Functions

- QName [getServiceName](#) ()
- void [invoke](#) (int reqno)
- BindingProvider [connect](#) (Service svc)

### Additional Inherited Members

#### 4.15.1 Member Function Documentation

4.15.1.1 BindingProvider eu.tclouds.rbpel.demo.calculator.CalculatorProxy.connect ( Service svc ) [protected], [virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.15.1.2 QName eu.tclouds.rbpel.demo.calculator.CalculatorProxy.getServiceName ( ) [protected], [virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.15.1.3 void eu.tclouds.rbpel.demo.calculator.CalculatorProxy.invoke ( int reqno ) [protected], [virtual]

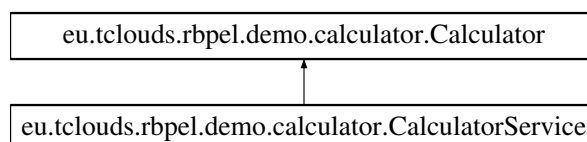
Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

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

- src/eu/tclouds/rbpel/demo/calculator/CalculatorProxy.java

## 4.16 eu.tclouds.rbpel.demo.calculator.CalculatorService Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.calculator.CalculatorService:



### Public Member Functions

- [CalculatorService](#) ()

- `int multiplyadd (@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int a,@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b,@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c)`

#### 4.16.1 Constructor & Destructor Documentation

4.16.1.1 `eu.tclouds.rbpel.demo.calculator.CalculatorService.CalculatorService ( )`

#### 4.16.2 Member Function Documentation

4.16.2.1 `int eu.tclouds.rbpel.demo.calculator.CalculatorService.multiplyadd ( @WebParam(targetNamespace="http://calculator.-demo.rbpel.tclouds.eu/") int a, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c )`

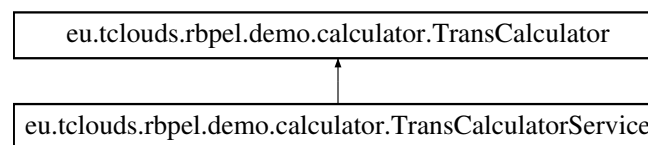
Implements [eu.tclouds.rbpel.demo.calculator.Calculator](#).

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

- `src/eu/tclouds/rbpel/demo/calculator/CalculatorService.java`

### 4.17 eu.tclouds.rbpel.demo.calculator.TransCalculator Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.calculator.TransCalculator`:



#### Public Member Functions

- `int multiplyadd (@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int a,@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b,@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c,@WebParam(targetNamespace="http://calculator.demo.rbpel.-tclouds.eu/", name="reqid_base") byte[] reqid_base)`

#### 4.17.1 Member Function Documentation

4.17.1.1 `int eu.tclouds.rbpel.demo.calculator.TransCalculator.multiplyadd ( @WebParam(targetNamespace="http://calculator.-demo.rbpel.tclouds.eu/") int a, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/", name="reqid_base") byte[] reqid_base )`

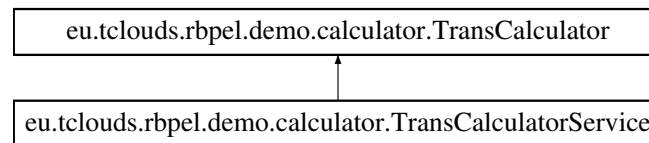
Implemented in [eu.tclouds.rbpel.demo.calculator.TransCalculatorService](#).

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

- `src/eu/tclouds/rbpel/demo/calculator/TransCalculator.java`

## 4.18 eu.tclouds.rbpel.demo.calculator.TransCalculatorService Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.calculator.TransCalculatorService:



### Public Member Functions

- [TransCalculatorService](#) () throws `ConfigurationException`, `IOException`
- [TransCalculatorService](#) ([ScenarioConfig](#) scenconf, int groupid, int hostno) throws `ConfigurationException`
- int [multiplyadd](#) (@WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int a, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/", name="reqid\_base") byte[] reqid\_base)

### 4.18.1 Constructor & Destructor Documentation

- 4.18.1.1 `eu.tclouds.rbpel.demo.calculator.TransCalculatorService.TransCalculatorService ( )` throws `ConfigurationException`, `IOException`
- 4.18.1.2 `eu.tclouds.rbpel.demo.calculator.TransCalculatorService.TransCalculatorService ( ScenarioConfig scenconf, int groupid, int hostno )` throws `ConfigurationException`

### 4.18.2 Member Function Documentation

- 4.18.2.1 `int eu.tclouds.rbpel.demo.calculator.TransCalculatorService.multiplyadd ( @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int a, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int b, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/") int c, @WebParam(targetNamespace="http://calculator.demo.rbpel.tclouds.eu/", name="reqid_base") byte[] reqid_base )`

Implements [eu.tclouds.rbpel.demo.calculator.TransCalculator](#).

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

- `src/eu/tclouds/rbpel/demo/calculator/TransCalculatorService.java`

## 4.19 eu.tclouds.rbpel.demo.ConfigHelper Class Reference

### Static Public Member Functions

- static void [main](#) (String[] args) throws `Exception`

### Static Protected Member Functions

- static final void [log](#) (final Level level, final String msg, final Object...args)



### 4.19.1 Member Function Documentation

4.19.1.1 `static final void eu.tclouds.rbpel.demo.ConfigHelper.log ( final Level level, final String msg, final Object... args )`  
`[static], [protected]`

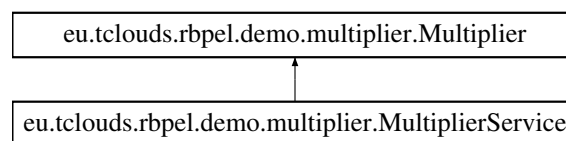
4.19.1.2 `static void eu.tclouds.rbpel.demo.ConfigHelper.main ( String[] args ) throws Exception` `[static]`

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

- `src/eu/tclouds/rbpel/demo/ConfigHelper.java`

## 4.20 eu.tclouds.rbpel.demo.multiplier.Multiplier Interface Reference

Inheritance diagram for eu.tclouds.rbpel.demo.multiplier.Multiplier:



### Public Member Functions

- `int multiply (int a, int b)`

### 4.20.1 Member Function Documentation

4.20.1.1 `int eu.tclouds.rbpel.demo.multiplier.Multiplier.multiply ( int a, int b )`

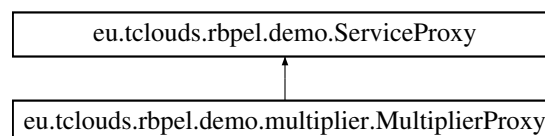
Implemented in [eu.tclouds.rbpel.demo.multiplier.MultiplierService](#).

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

- `src/eu/tclouds/rbpel/demo/multiplier/Multiplier.java`

## 4.21 eu.tclouds.rbpel.demo.multiplier.MultiplierProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.multiplier.MultiplierProxy:



### Protected Member Functions

- `QName getServiceName ()`
- `void invoke (int reqno)`
- `BindingProvider connect (Service svc)`

## Additional Inherited Members

### 4.21.1 Member Function Documentation

4.21.1.1 **BindingProvider** `eu.tclouds.rbpel.demo.multiplier.MultiplierProxy.connect ( Service svc )` [protected], [virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.21.1.2 **QName** `eu.tclouds.rbpel.demo.multiplier.MultiplierProxy.getServiceName ( )` [protected], [virtual]

Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

4.21.1.3 **void** `eu.tclouds.rbpel.demo.multiplier.MultiplierProxy.invoke ( int reqno )` [protected], [virtual]

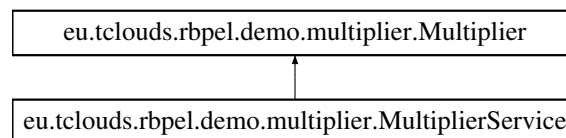
Implements [eu.tclouds.rbpel.demo.ServiceProxy](#).

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

- `src/eu/tclouds/rbpel/demo/multiplier/MultiplierProxy.java`

## 4.22 eu.tclouds.rbpel.demo.multiplier.MultiplierService Class Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.multiplier.MultiplierService`:



## Public Member Functions

- `int multiply (int a, int b)`

### 4.22.1 Member Function Documentation

4.22.1.1 **int** `eu.tclouds.rbpel.demo.multiplier.MultiplierService.multiply ( int a, int b )`

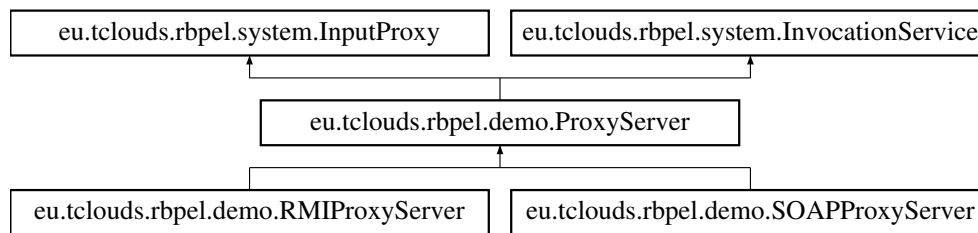
Implements [eu.tclouds.rbpel.demo.multiplier.Multiplier](#).

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

- `src/eu/tclouds/rbpel/demo/multiplier/MultiplierService.java`

## 4.23 eu.tclouds.rbpel.demo.ProxyServer Class Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.ProxyServer`:



### Public Member Functions

- [ProxyServer](#) ()
- UUID [getID](#) ()
- URI [getURI](#) ()
- byte[] [sendRequest](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- byte[] [receiveReply](#) ([RequestID](#) reqid, URI svcurl)
- Object [invoke](#) (URI srcsvc, [RequestID](#) reqid, URI svcurl, Object req)
- void [shutdown](#) ()

### Protected Member Functions

- void [init](#) ([ScenarioConfig](#) scenconf, int groupid, int hostno) throws IOException, InterruptedException, ConfigurationException
- final void [log](#) (final Level level, final String msg, final Object...args)
- abstract [InputProxyConnector](#) [start](#) (UUID myid, URI myurl)

### Static Protected Attributes

- static final Logger [m\\_logger](#) = Logger.getLogger( SOAPProxyServer.class.getName() )

#### 4.23.1 Constructor & Destructor Documentation

4.23.1.1 eu.tclouds.rbpel.demo.ProxyServer.ProxyServer ( )

#### 4.23.2 Member Function Documentation

4.23.2.1 UUID eu.tclouds.rbpel.demo.ProxyServer.getID ( )

4.23.2.2 URI eu.tclouds.rbpel.demo.ProxyServer.getURI ( )

4.23.2.3 void eu.tclouds.rbpel.demo.ProxyServer.init ( [ScenarioConfig](#) scenconf, int groupid, int hostno ) throws IOException, InterruptedException, ConfigurationException [protected]

4.23.2.4 Object eu.tclouds.rbpel.demo.ProxyServer.invoke ( URI srcsvc, [RequestID](#) reqid, URI svcurl, Object req )

Implements [eu.tclouds.rbpel.system.InvocationService](#).

4.23.2.5 final void eu.tclouds.rbpel.demo.ProxyServer.log ( final Level level, final String msg, final Object... args ) [protected]

4.23.2.6 byte [] eu.tclouds.rbpel.demo.ProxyServer.receiveReply ( [RequestID](#) reqid, URI svcurl )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.23.2.7 `byte [] eu.tclouds.rbpel.demo.ProxyServer.sendRequest ( RequestID reqid, URI svcurl, byte[] req )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.23.2.8 `void eu.tclouds.rbpel.demo.ProxyServer.shutdown ( )`

4.23.2.9 `abstract InputProxyConnector eu.tclouds.rbpel.demo.ProxyServer.start ( UUID myid, URI myurl )`  
`[protected], [pure virtual]`

Implemented in [eu.tclouds.rbpel.demo.SOAPProxyServer](#), and [eu.tclouds.rbpel.demo.RMIProxyServer](#).

### 4.23.3 Member Data Documentation

4.23.3.1 `final Logger eu.tclouds.rbpel.demo.ProxyServer.m_logger = Logger.getLogger( SOAPProxyServer.class.getName() )`  
`[static], [protected]`

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

- `src/eu/tclouds/rbpel/demo/ProxyServer.java`

## 4.24 eu.tclouds.rbpel.demo.ReplicaServer Class Reference

### Public Member Functions

- [ReplicaServer](#) ([ScenarioConfig](#) scenconf)
- void [start](#) (int groupid, int hostno) throws [ConfigurationException](#), [InterruptedException](#), [IOException](#), [InstantiationException](#), [IllegalAccessException](#), [ClassNotFoundException](#), [InvocationTargetException](#), [NoSuchMethodException](#)
- void [shutdown](#) ()

### Static Public Member Functions

- static void [main](#) (String args[]) throws [Exception](#)

### 4.24.1 Constructor & Destructor Documentation

4.24.1.1 `eu.tclouds.rbpel.demo.ReplicaServer.ReplicaServer ( ScenarioConfig scenconf )`

### 4.24.2 Member Function Documentation

4.24.2.1 `static void eu.tclouds.rbpel.demo.ReplicaServer.main ( String args[] ) throws Exception` `[static]`

4.24.2.2 `void eu.tclouds.rbpel.demo.ReplicaServer.shutdown ( )`

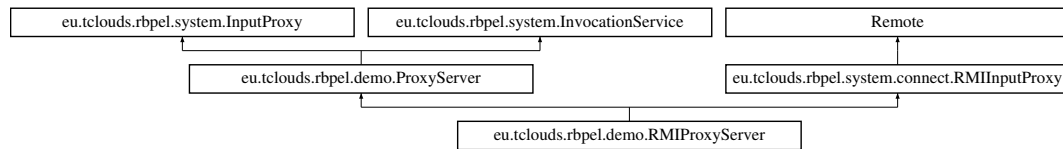
4.24.2.3 `void eu.tclouds.rbpel.demo.ReplicaServer.start ( int groupid, int hostno ) throws ConfigurationException, InterruptedException, IOException, InstantiationException, IllegalAccessException, ClassNotFoundException, InvocationTargetException, NoSuchMethodException`

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

- `src/eu/tclouds/rbpel/demo/ReplicaServer.java`

## 4.25 eu.tclouds.rbpel.demo.RMIProxyServer Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.RMIProxyServer:



### Public Member Functions

- [RMIProxyServer](#) ([ScenarioConfig](#) scenconf, int groupid, int hostno) throws IOException, InterruptedException, ConfigurationException
- void [shutdown](#) ()

### Protected Member Functions

- [InputProxyConnector](#) start (UUID myid, URI myurl)

### Additional Inherited Members

#### 4.25.1 Constructor & Destructor Documentation

- 4.25.1.1 `eu.tclouds.rbpel.demo.RMIProxyServer.RMIProxyServer ( ScenarioConfig scenconf, int groupid, int hostno )`  
throws IOException, InterruptedException, ConfigurationException

#### 4.25.2 Member Function Documentation

- 4.25.2.1 `void eu.tclouds.rbpel.demo.RMIProxyServer.shutdown ( )`

- 4.25.2.2 `InputProxyConnector eu.tclouds.rbpel.demo.RMIProxyServer.start ( UUID myid, URI myurl )` [protected], [virtual]

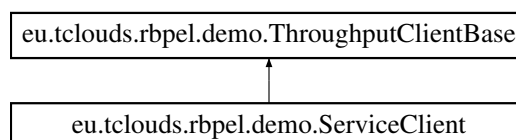
Implements [eu.tclouds.rbpel.demo.ProxyServer](#).

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

- src/eu/tclouds/rbpel/demo/RMIProxyServer.java

## 4.26 eu.tclouds.rbpel.demo.ServiceClient Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.ServiceClient:



## Public Member Functions

- [ServiceClient](#) (URI *svcurl*, [ScenarioConfig](#) *scenconf*) throws `IOException`, `ConfigurationException`, `InterruptedException`

## Static Public Member Functions

- static void [main](#) (String[] args) throws `Exception`

## Protected Member Functions

- String [getPropsNamespace](#) ()
- [ServiceProxy](#) [createProxy](#) (int *no*)
- [TestRun](#) [createTestRun](#) (int *nworker*, int *secs*)

## Additional Inherited Members

### 4.26.1 Constructor & Destructor Documentation

4.26.1.1 `eu.tclouds.rbpel.demo.ServiceClient.ServiceClient ( URI svcurl, ScenarioConfig scenconf )` throws `IOException`, `ConfigurationException`, `InterruptedException`

### 4.26.2 Member Function Documentation

4.26.2.1 `ServiceProxy eu.tclouds.rbpel.demo.ServiceClient.createProxy ( int no )` `[protected]`, `[virtual]`

Implements [eu.tclouds.rbpel.demo.ThroughputClientBase](#).

4.26.2.2 `TestRun eu.tclouds.rbpel.demo.ServiceClient.createTestRun ( int nworker, int secs )` `[protected]`, `[virtual]`

Implements [eu.tclouds.rbpel.demo.ThroughputClientBase](#).

4.26.2.3 `String eu.tclouds.rbpel.demo.ServiceClient.getPropsNamespace ( )` `[protected]`

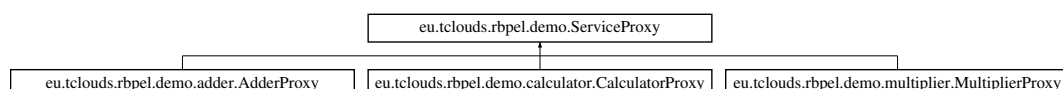
4.26.2.4 `static void eu.tclouds.rbpel.demo.ServiceClient.main ( String[] args )` throws `Exception` `[static]`

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

- `src/eu/tclouds/rbpel/demo/ServiceClient.java`

## 4.27 eu.tclouds.rbpel.demo.ServiceProxy Class Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.ServiceProxy`:



## Public Member Functions

- void [connect](#) ([ServiceRegistry](#) svcreg, URI svcurl, URI wsdlurl)
- void [invoke](#) ()

## Protected Member Functions

- abstract QName [getServiceName](#) ()
- abstract [BindingProvider](#) [connect](#) ([Service](#) svc)
- abstract void [invoke](#) (int reqno)

### 4.27.1 Member Function Documentation

4.27.1.1 void eu.tclouds.rbpel.demo.ServiceProxy.connect ( [ServiceRegistry](#) svcreg, URI svcurl, URI wsdlurl )

4.27.1.2 abstract [BindingProvider](#) eu.tclouds.rbpel.demo.ServiceProxy.connect ( [Service](#) svc ) [protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.demo.adder.AdderProxy](#), [eu.tclouds.rbpel.demo.calculator.CalculatorProxy](#), and [eu.tclouds.rbpel.demo.multiplier.MultiplierProxy](#).

4.27.1.3 abstract QName eu.tclouds.rbpel.demo.ServiceProxy.getServiceName ( ) [protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.demo.adder.AdderProxy](#), [eu.tclouds.rbpel.demo.calculator.CalculatorProxy](#), and [eu.tclouds.rbpel.demo.multiplier.MultiplierProxy](#).

4.27.1.4 void eu.tclouds.rbpel.demo.ServiceProxy.invoke ( )

4.27.1.5 abstract void eu.tclouds.rbpel.demo.ServiceProxy.invoke ( int reqno ) [protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.demo.adder.AdderProxy](#), [eu.tclouds.rbpel.demo.calculator.CalculatorProxy](#), and [eu.tclouds.rbpel.demo.multiplier.MultiplierProxy](#).

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

- src/eu/tclouds/rbpel/demo/ServiceProxy.java

## 4.28 eu.tclouds.rbpel.demo.ServiceServer Class Reference

### Public Member Functions

- [ServiceServer](#) ([ScenarioConfig](#) scenconf)
- void [start](#) (int groupid, int hostno) throws [ClassNotFoundException](#), [IllegalAccessException](#), [InstantiationException](#), [ConfigurationException](#), [NoSuchMethodException](#), [InvocationTargetException](#)
- void [shutdown](#) ()

### Static Public Member Functions

- static void [main](#) (String args[]) throws [Exception](#)

### 4.28.1 Constructor & Destructor Documentation

4.28.1.1 `eu.tclouds.rbpel.demo.ServiceServer.ServiceServer ( ScenarioConfig scenconf )`

### 4.28.2 Member Function Documentation

4.28.2.1 `static void eu.tclouds.rbpel.demo.ServiceServer.main ( String args[] ) throws Exception` [static]

4.28.2.2 `void eu.tclouds.rbpel.demo.ServiceServer.shutdown ( )`

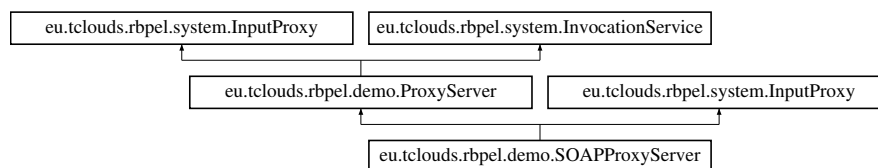
4.28.2.3 `void eu.tclouds.rbpel.demo.ServiceServer.start ( int groupid, int hostno ) throws ClassNotFoundException, IllegalAccessException, InstantiationException, ConfigurationException, NoSuchMethodException, InvocationTargetException`

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

- `src/eu/tclouds/rbpel/demo/ServiceServer.java`

## 4.29 eu.tclouds.rbpel.demo.SOAPProxyServer Class Reference

Inheritance diagram for `eu.tclouds.rbpel.demo.SOAPProxyServer`:



### Public Member Functions

- `SOAPProxyServer ()` throws `IOException`, `InterruptedException`, `ConfigurationException`
- `SOAPProxyServer (ScenarioConfig scenconf, int groupid, int hostno)` throws `IOException`, `InterruptedException`, `ConfigurationException`
- `byte[] sendRequest (RequestID reqid, URI svcurl, byte[] req)`
- `byte[] receiveReply (RequestID reqid, URI svcurl)`

### Protected Member Functions

- `InputProxyConnector start (UUID myid, URI myurl)`

### Additional Inherited Members

### 4.29.1 Constructor & Destructor Documentation

4.29.1.1 `eu.tclouds.rbpel.demo.SOAPProxyServer.SOAPProxyServer ( )` throws `IOException`, `InterruptedException`, `ConfigurationException`

4.29.1.2 `eu.tclouds.rbpel.demo.SOAPProxyServer.SOAPProxyServer ( ScenarioConfig scenconf, int groupid, int hostno )` throws `IOException`, `InterruptedException`, `ConfigurationException`

### 4.29.2 Member Function Documentation



4.29.2.1 `byte [] eu.tclouds.rbpel.demo.SOAPProxyServer.receiveReply ( RequestID reqid, URI svcurl )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.29.2.2 `byte [] eu.tclouds.rbpel.demo.SOAPProxyServer.sendRequest ( RequestID reqid, URI svcurl, byte[] req )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.29.2.3 `InputProxyConnector eu.tclouds.rbpel.demo.SOAPProxyServer.start ( UUID myid, URI myurl )`  
`[protected], [virtual]`

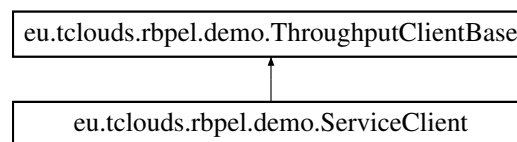
Implements [eu.tclouds.rbpel.demo.ProxyServer](#).

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

- `src/eu/tclouds/rbpel/demo/SOAPProxyServer.java`

## 4.30 eu.tclouds.rbpel.demo.ThroughputClientBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.ThroughputClientBase:



### Classes

- class [TestRun](#)
- class [Worker](#)

### Public Member Functions

- [ThroughputClientBase](#) () throws IOException, ConfigurationException
- void [init](#) ()
- void [run](#) () throws Exception
- int [getWarmupTime](#) ()
- int [getRunTime](#) ()
- int [getPause](#) ()

### Protected Member Functions

- void [startWarmup](#) (int nworker, int secs) throws Exception
- void [startTestRuns](#) (int nworker, int secs) throws Exception
- int [getIntProp](#) (String name, int def) throws ConfigurationException
- String [getFullPropName](#) (String name)
- String [getPropsNamespace](#) ()
- abstract [ServiceProxy](#) [createProxy](#) (int no)
- abstract [TestRun](#) [createTestRun](#) (int nworker, int secs)
- [Worker](#) [createWorker](#) ([ServiceProxy](#) proxy, CountdownLatch startsignal)

- synchronized void [initTPTest](#) (int nclients)
- synchronized void [onClientStarted](#) ()
- synchronized void [onRequest](#) (long t)
- synchronized void [onClientFinished](#) ()

### Static Protected Member Functions

- static int [getInt](#) (String prop, int def) throws ConfigurationException

### Protected Attributes

- [ServiceProxy](#)[] [m\\_proxies](#)
- AtomicBoolean [m\\_isrunning](#) = new AtomicBoolean()

## 4.30.1 Constructor & Destructor Documentation

- 4.30.1.1 `eu.tclouds.rbpel.demo.ThroughputClientBase.ThroughputClientBase ( )` throws IOException, ConfigurationException

## 4.30.2 Member Function Documentation

- 4.30.2.1 `abstract ServiceProxy eu.tclouds.rbpel.demo.ThroughputClientBase.createProxy ( int no )` [protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.demo.ServiceClient](#).

- 4.30.2.2 `abstract TestRun eu.tclouds.rbpel.demo.ThroughputClientBase.createTestRun ( int nworker, int secs )` [protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.demo.ServiceClient](#).

- 4.30.2.3 `Worker eu.tclouds.rbpel.demo.ThroughputClientBase.createWorker ( ServiceProxy proxy, CountdownLatch startsignal )` [protected]

- 4.30.2.4 `String eu.tclouds.rbpel.demo.ThroughputClientBase.getFullPropName ( String name )` [protected]

- 4.30.2.5 `static int eu.tclouds.rbpel.demo.ThroughputClientBase.getInt ( String prop, int def )` throws ConfigurationException [static], [protected]

- 4.30.2.6 `int eu.tclouds.rbpel.demo.ThroughputClientBase.getIntProp ( String name, int def )` throws ConfigurationException [protected]

- 4.30.2.7 `int eu.tclouds.rbpel.demo.ThroughputClientBase.getPause ( )`

- 4.30.2.8 `String eu.tclouds.rbpel.demo.ThroughputClientBase.getPropsNamespace ( )` [protected]

- 4.30.2.9 `int eu.tclouds.rbpel.demo.ThroughputClientBase.getRuntime ( )`

- 4.30.2.10 `int eu.tclouds.rbpel.demo.ThroughputClientBase.getWarmupTime ( )`

- 4.30.2.11 `void eu.tclouds.rbpel.demo.ThroughputClientBase.init ( )`

- 4.30.2.12 `synchronized void eu.tclouds.rbpel.demo.ThroughputClientBase.initTPTest ( int nclients )` [protected]
- 4.30.2.13 `synchronized void eu.tclouds.rbpel.demo.ThroughputClientBase.onClientFinished ( )` [protected]
- 4.30.2.14 `synchronized void eu.tclouds.rbpel.demo.ThroughputClientBase.onClientStarted ( )` [protected]
- 4.30.2.15 `synchronized void eu.tclouds.rbpel.demo.ThroughputClientBase.onRequest ( long t )` [protected]
- 4.30.2.16 `void eu.tclouds.rbpel.demo.ThroughputClientBase.run ( )` throws Exception
- 4.30.2.17 `void eu.tclouds.rbpel.demo.ThroughputClientBase.startTestRuns ( int nworker, int secs )` throws Exception [protected]
- 4.30.2.18 `void eu.tclouds.rbpel.demo.ThroughputClientBase.startWarmup ( int nworker, int secs )` throws Exception [protected]

### 4.30.3 Member Data Documentation

- 4.30.3.1 `AtomicBoolean eu.tclouds.rbpel.demo.ThroughputClientBase.m_isrunning = new AtomicBoolean()` [protected]
- 4.30.3.2 `ServiceProxy [] eu.tclouds.rbpel.demo.ThroughputClientBase.m_proxies` [protected]

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

- `src/eu/tclouds/rbpel/demo/ThroughputClientBase.java`

## 4.31 eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun Class Reference

### Public Member Functions

- [TestRun](#) (int *nworker*, int *secs*)
- final void [start](#) () throws Exception
- int [getNumberOfWorker](#) ()
- int [getSeconds](#) ()

### Protected Member Functions

- void [onStart](#) ()
- void [onFinish](#) ([Worker](#)[] *worker*, long *totaltime*, int *tp*, long *rectime*, [MeasurementResult](#) *reqres*, [PrintWriter](#) *outres*) throws Exception

### 4.31.1 Constructor & Destructor Documentation

- 4.31.1.1 `eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.TestRun ( int nworker, int secs )`

### 4.31.2 Member Function Documentation

- 4.31.2.1 `int eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.getNumberOfWorker ( )`
- 4.31.2.2 `int eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.getSeconds ( )`
- 4.31.2.3 `void eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.onFinish ( Worker[] worker, long totaltime, int tp, long rectime, MeasurementResult reqres, PrintWriter outres )` throws Exception [protected]

4.31.2.4 void eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.onStart ( ) [protected]

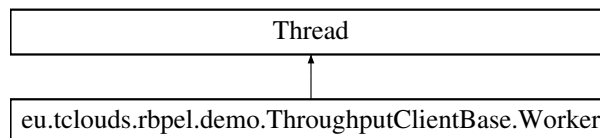
4.31.2.5 final void eu.tclouds.rbpel.demo.ThroughputClientBase.TestRun.start ( ) throws Exception

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

- src/eu/tclouds/rbpel/demo/ThroughputClientBase.java

## 4.32 eu.tclouds.rbpel.demo.ThroughputClientBase.Worker Class Reference

Inheritance diagram for eu.tclouds.rbpel.demo.ThroughputClientBase.Worker:



### Public Member Functions

- [Worker](#) ([ServiceProxy](#) proxy, [CountDownLatch](#) startsignal)
- final void [run](#) ( )
- Exception [getException](#) ( )

### Protected Member Functions

- final [ServiceProxy](#) [getProxy](#) ( )
- void [beforeStart](#) ( )
- void [beforeInvocation](#) ( ) throws Exception
- void [invokeService](#) ( ) throws Exception
- void [afterInvocation](#) (long time) throws Exception

### 4.32.1 Constructor & Destructor Documentation

4.32.1.1 eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.Worker ( [ServiceProxy](#) proxy, [CountDownLatch](#) startsignal )

### 4.32.2 Member Function Documentation

4.32.2.1 void eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.afterInvocation ( long time ) throws Exception [protected]

4.32.2.2 void eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.beforeInvocation ( ) throws Exception [protected]

4.32.2.3 void eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.beforeStart ( ) [protected]

4.32.2.4 Exception eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.getException ( )

4.32.2.5 final [ServiceProxy](#) eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.getProxy ( ) [protected]

4.32.2.6 void eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.invokeService ( ) throws Exception [protected]

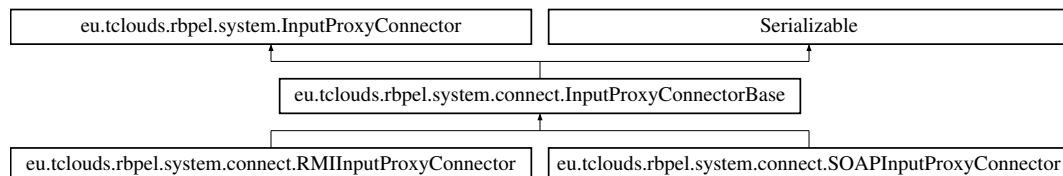
4.32.2.7 `final void eu.tclouds.rbpel.demo.ThroughputClientBase.Worker.run ( )`

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

- `src/eu/tclouds/rbpel/demo/ThroughputClientBase.java`

## 4.33 eu.tclouds.rbpel.system.connect.InputProxyConnectorBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.InputProxyConnectorBase:



### Public Member Functions

- [InputProxyConnectorBase](#) (UUID proxyid)
- final UUID [getProxyID](#) ( )

### 4.33.1 Constructor & Destructor Documentation

4.33.1.1 `eu.tclouds.rbpel.system.connect.InputProxyConnectorBase.InputProxyConnectorBase ( UUID proxyid )`

### 4.33.2 Member Function Documentation

4.33.2.1 `final UUID eu.tclouds.rbpel.system.connect.InputProxyConnectorBase.getProxyID ( )`

Implements [eu.tclouds.rbpel.system.InputProxyConnector](#).

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

- `src/eu/tclouds/rbpel/system/connect/InputProxyConnectorBase.java`

## 4.34 eu.tclouds.rbpel.system.connect.ReceiveReply Class Reference

### Public Member Functions

- [RequestID](#) [getArg0](#) ( )
- void [setArg0](#) ([RequestID](#) value)
- URI [getArg1](#) ( )
- void [setArg1](#) (URI value)

### 4.34.1 Member Function Documentation

4.34.1.1 `RequestID eu.tclouds.rbpel.system.connect.ReceiveReply.getArg0 ( )`

4.34.1.2 `URI eu.tclouds.rbpel.system.connect.ReceiveReply.getArg1 ( )`

4.34.1.3 void eu.tclouds.rbpel.system.connect.ReceiveReply.setArg0 ( RequestID value )

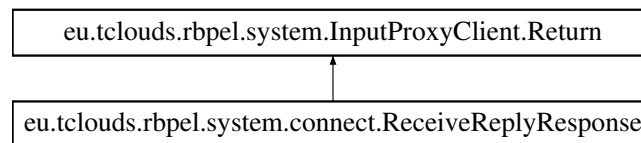
4.34.1.4 void eu.tclouds.rbpel.system.connect.ReceiveReply.setArg1 ( URI value )

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

- src/eu/tclouds/rbpel/system/connect/ReceiveReply.java

## 4.35 eu.tclouds.rbpel.system.connect.ReceiveReplyResponse Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.ReceiveReplyResponse:



### Public Member Functions

- byte[] [getValue](#) ()

#### 4.35.1 Member Function Documentation

4.35.1.1 byte [] eu.tclouds.rbpel.system.connect.ReceiveReplyResponse.getValue ( )

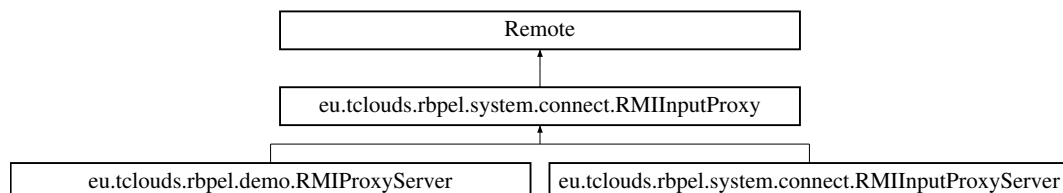
Implements [eu.tclouds.rbpel.system.InputProxyClient.Return](#).

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

- src/eu/tclouds/rbpel/system/connect/ReceiveReplyResponse.java

## 4.36 eu.tclouds.rbpel.system.connect.RMIInputProxy Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.RMIInputProxy:



### Public Member Functions

- byte[] [sendRequest](#) (RequestID reqid, URI svcurl, byte[] req) throws RemoteException
- byte[] [receiveReply](#) (RequestID reqid, URI svcurl) throws RemoteException

### 4.36.1 Member Function Documentation

4.36.1.1 `byte [] eu.tclouds.rbpel.system.connect.RMIIInputProxy.receiveReply ( RequestID reqid, URI svcurl )` throws `RemoteException`

Implemented in [eu.tclouds.rbpel.system.connect.RMIIInputProxyServer](#).

4.36.1.2 `byte [] eu.tclouds.rbpel.system.connect.RMIIInputProxy.sendRequest ( RequestID reqid, URI svcurl, byte[] req )` throws `RemoteException`

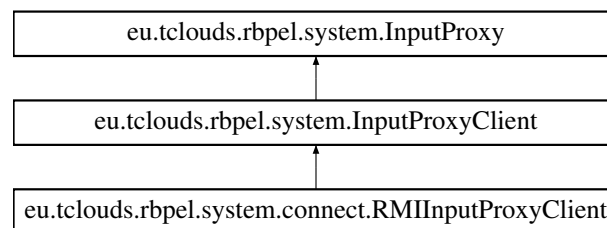
Implemented in [eu.tclouds.rbpel.system.connect.RMIIInputProxyServer](#).

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

- `src/eu/tclouds/rbpel/system/connect/RMIIInputProxy.java`

## 4.37 eu.tclouds.rbpel.system.connect.RMIIInputProxyClient Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.connect.RMIIInputProxyClient`:



### Public Member Functions

- [RMIIInputProxyClient](#) ([RMIIInputProxy](#) proxy)
- `byte[] sendRequest (RequestID reqid, URI svcurl, byte[] req)`
- `byte[] receiveReply (RequestID reqid, URI svcurl)`
- `Response<? extends Return> sendRequestAsync (RequestID reqid, URI svcurl, byte[] req)`
- `Response<? extends Return> receiveReplyAsync (RequestID reqid, URI svcurl)`

### 4.37.1 Constructor & Destructor Documentation

4.37.1.1 `eu.tclouds.rbpel.system.connect.RMIIInputProxyClient.RMIIInputProxyClient ( RMIIInputProxy proxy )`

### 4.37.2 Member Function Documentation

4.37.2.1 `byte [] eu.tclouds.rbpel.system.connect.RMIIInputProxyClient.receiveReply ( RequestID reqid, URI svcurl )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.37.2.2 `Response<? extends Return> eu.tclouds.rbpel.system.connect.RMIIInputProxyClient.receiveReplyAsync ( RequestID reqid, URI svcurl )`

Implements [eu.tclouds.rbpel.system.InputProxyClient](#).

4.37.2.3 `byte [] eu.tclouds.rbpel.system.connect.RMInputProxyClient.sendRequest ( RequestID reqid, URI svcurl, byte[] req )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.37.2.4 `Response<? extends Return> eu.tclouds.rbpel.system.connect.RMInputProxyClient.sendRequestAsync ( RequestID reqid, URI svcurl, byte[] req )`

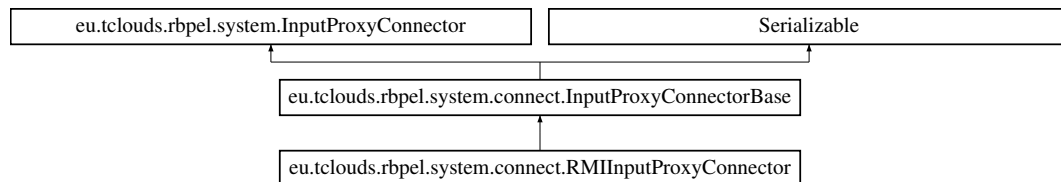
Implements [eu.tclouds.rbpel.system.InputProxyClient](#).

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

- `src/eu/tclouds/rbpel/system/connect/RMInputProxyClient.java`

## 4.38 eu.tclouds.rbpel.system.connect.RMInputProxyConnector Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.connect.RMInputProxyConnector`:



### Public Member Functions

- [RMInputProxyConnector](#) (UUID proxyid, [RMInputProxy](#) proxy)
- [InputProxyClient](#) connect ()

### 4.38.1 Constructor & Destructor Documentation

4.38.1.1 `eu.tclouds.rbpel.system.connect.RMInputProxyConnector.RMInputProxyConnector ( UUID proxyid, RMInputProxy proxy )`

### 4.38.2 Member Function Documentation

4.38.2.1 `InputProxyClient eu.tclouds.rbpel.system.connect.RMInputProxyConnector.connect ( )`

Implements [eu.tclouds.rbpel.system.InputProxyConnector](#).

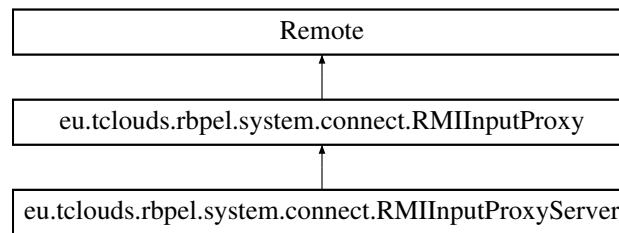
The documentation for this class was generated from the following file:

- `src/eu/tclouds/rbpel/system/connect/RMInputProxyConnector.java`

## 4.39 eu.tclouds.rbpel.system.connect.RMInputProxyServer Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.connect.RMInputProxyServer`:





## Public Member Functions

- [RMIIInputProxyServer](#) ([InputProxy](#) proxy)
- `byte[]` [sendRequest](#) ([RequestID](#) reqid, URI srvurl, `byte[]` req) throws `RemoteException`
- `byte[]` [receiveReply](#) ([RequestID](#) reqid, URI srvurl) throws `RemoteException`

### 4.39.1 Constructor & Destructor Documentation

4.39.1.1 `eu.tclouds.rbpel.system.connect.RMIIInputProxyServer.RMIIInputProxyServer ( InputProxy proxy )`

### 4.39.2 Member Function Documentation

4.39.2.1 `byte []` `eu.tclouds.rbpel.system.connect.RMIIInputProxyServer.receiveReply ( RequestID reqid, URI srvurl )` throws `RemoteException`

Implements [eu.tclouds.rbpel.system.connect.RMIIInputProxy](#).

4.39.2.2 `byte []` `eu.tclouds.rbpel.system.connect.RMIIInputProxyServer.sendRequest ( RequestID reqid, URI srvurl, byte[] req )` throws `RemoteException`

Implements [eu.tclouds.rbpel.system.connect.RMIIInputProxy](#).

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

- `src/eu/tclouds/rbpel/system/connect/RMIIInputProxyServer.java`

## 4.40 eu.tclouds.rbpel.system.connect.RMIPublisher Class Reference

### Public Member Functions

- [InputProxyConnector](#) [export](#) (int port, UUID proxyid, [InputProxy](#) proxy) throws `RemoteException`
- void [shutdown](#) ()

### 4.40.1 Member Function Documentation

4.40.1.1 `InputProxyConnector` `eu.tclouds.rbpel.system.connect.RMIPublisher.export ( int port, UUID proxyid, InputProxy proxy )` throws `RemoteException`

4.40.1.2 `void` `eu.tclouds.rbpel.system.connect.RMIPublisher.shutdown ( )`

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

- `src/eu/tclouds/rbpel/system/connect/RMIPublisher.java`

## 4.41 eu.tclouds.rbpel.system.connect.SendRequest Class Reference

### Public Member Functions

- [RequestID](#) [getArg0](#) ()
- void [setArg0](#) ([RequestID](#) value)
- [URI](#) [getArg1](#) ()
- void [setArg1](#) ([URI](#) value)
- [byte\[\]](#) [getArg2](#) ()
- void [setArg2](#) ([byte\[\]](#) value)

### 4.41.1 Member Function Documentation

4.41.1.1 [RequestID](#) eu.tclouds.rbpel.system.connect.SendRequest.getArg0 ( )

4.41.1.2 [URI](#) eu.tclouds.rbpel.system.connect.SendRequest.getArg1 ( )

4.41.1.3 [byte \[\]](#) eu.tclouds.rbpel.system.connect.SendRequest.getArg2 ( )

4.41.1.4 void eu.tclouds.rbpel.system.connect.SendRequest.setArg0 ( [RequestID](#) value )

4.41.1.5 void eu.tclouds.rbpel.system.connect.SendRequest.setArg1 ( [URI](#) value )

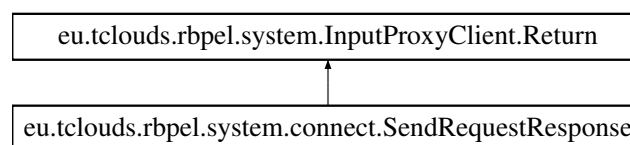
4.41.1.6 void eu.tclouds.rbpel.system.connect.SendRequest.setArg2 ( [byte\[\]](#) value )

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

- src/eu/tclouds/rbpel/system/connect/SendRequest.java

## 4.42 eu.tclouds.rbpel.system.connect.SendRequestResponse Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.SendRequestResponse:



### Public Member Functions

- [byte\[\]](#) [getValue](#) ()

### 4.42.1 Member Function Documentation

4.42.1.1 [byte \[\]](#) eu.tclouds.rbpel.system.connect.SendRequestResponse.getValue ( )

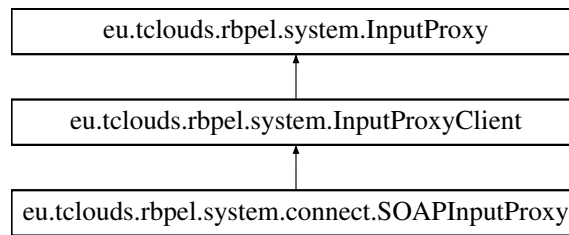
Implements [eu.tclouds.rbpel.system.InputProxyClient.Return](#).

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

- src/eu/tclouds/rbpel/system/connect/SendRequestResponse.java

## 4.43 eu.tclouds.rbpel.system.connect.SOAPInputProxy Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.SOAPInputProxy:



### Public Member Functions

- byte[] [sendRequest](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- javax.xml.ws.Response  
   < [SendRequestResponse](#) > [sendRequestAsync](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- byte[] [receiveReply](#) ([RequestID](#) reqid, URI svcurl)
- javax.xml.ws.Response  
   < [ReceiveReplyResponse](#) > [receiveReplyAsync](#) ([RequestID](#) reqid, URI svcurl)

#### 4.43.1 Member Function Documentation

4.43.1.1 byte [] eu.tclouds.rbpel.system.connect.SOAPInputProxy.receiveReply ( [RequestID](#) reqid, URI svcurl )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.43.1.2 javax.xml.ws.Response<[ReceiveReplyResponse](#)> eu.tclouds.rbpel.system.connect.SOAPInputProxy.receiveReplyAsync ( [RequestID](#) reqid, URI svcurl )

Implements [eu.tclouds.rbpel.system.InputProxyClient](#).

4.43.1.3 byte [] eu.tclouds.rbpel.system.connect.SOAPInputProxy.sendRequest ( [RequestID](#) reqid, URI svcurl, byte[] req )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.43.1.4 javax.xml.ws.Response<[SendRequestResponse](#)> eu.tclouds.rbpel.system.connect.SOAPInputProxy.sendRequestAsync ( [RequestID](#) reqid, URI svcurl, byte[] req )

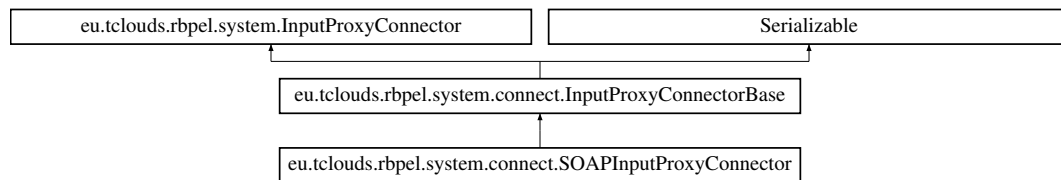
Implements [eu.tclouds.rbpel.system.InputProxyClient](#).

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

- src/eu/tclouds/rbpel/system/connect/SOAPInputProxy.java

## 4.44 eu.tclouds.rbpel.system.connect.SOAPInputProxyConnector Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.connect.SOAPInputProxyConnector:



## Public Member Functions

- [SOAPInputProxyConnector](#) (UUID proxyid, URI proxyurl)
- [InputProxyClient](#) connect ()

### 4.44.1 Constructor & Destructor Documentation

4.44.1.1 [eu.tclouds.rbpel.system.connect.SOAPInputProxyConnector](#).[SOAPInputProxyConnector](#) ( UUID *proxyid*, URI *proxyurl* )

### 4.44.2 Member Function Documentation

4.44.2.1 [InputProxyClient](#) [eu.tclouds.rbpel.system.connect.SOAPInputProxyConnector](#).connect ( )

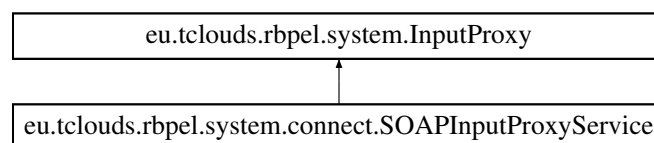
Implements [eu.tclouds.rbpel.system.InputProxyConnector](#).

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

- src/eu/tclouds/rbpel/system/connect/SOAPInputProxyConnector.java

## 4.45 eu.tclouds.rbpel.system.connect.SOAPInputProxyService Class Reference

Inheritance diagram for [eu.tclouds.rbpel.system.connect.SOAPInputProxyService](#):



## Public Member Functions

- [SOAPInputProxyService](#) ([InputProxy](#) proxy)
- byte[] [sendRequest](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- byte[] [receiveReply](#) ([RequestID](#) reqid, URI svcurl)

## Protected Member Functions

- [SOAPInputProxyService](#) ()
- void [initProxy](#) ([InputProxy](#) proxy)
- [InputProxy](#) [getProxy](#) ()



## Public Member Functions

- byte[] [sendRequest](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- byte[] [receiveReply](#) ([RequestID](#) reqid, URI svcurl)

### 4.47.1 Member Function Documentation

#### 4.47.1.1 byte [] eu.tclouds.rbpel.system.InputProxy.receiveReply ( RequestID reqid, URI svcurl )

Implemented in [eu.tclouds.rbpel.demo.ProxyServer](#), [eu.tclouds.rbpel.system.proxies.InputProxyBase](#), [eu.tclouds.rbpel.demo.SOAPProxyServer](#), [eu.tclouds.rbpel.system.connect.RMIInputProxyClient](#), [eu.tclouds.rbpel.system.InputProxyDispatcher](#), [eu.tclouds.rbpel.system.connect.SOAPInputProxy](#), and [eu.tclouds.rbpel.system.connect.SOAPInputProxyService](#).

#### 4.47.1.2 byte [] eu.tclouds.rbpel.system.InputProxy.sendRequest ( RequestID reqid, URI svcurl, byte[] req )

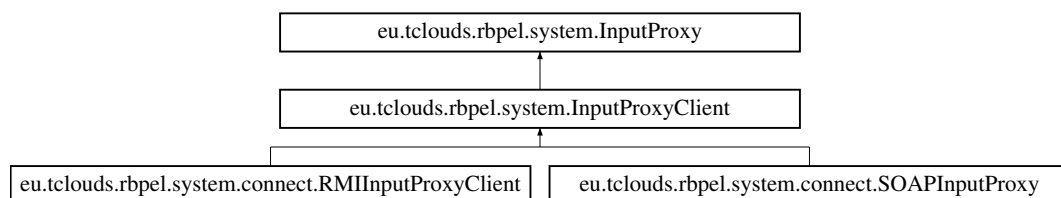
Implemented in [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy](#), [eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy](#), [eu.tclouds.rbpel.demo.ProxyServer](#), [eu.tclouds.rbpel.demo.SOAPProxyServer](#), [eu.tclouds.rbpel.system.InputProxyDispatcher](#), [eu.tclouds.rbpel.system.connect.RMIInputProxyClient](#), [eu.tclouds.rbpel.system.connect.SOAPInputProxyService](#), and [eu.tclouds.rbpel.system.connect.SOAPInputProxy](#).

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

- [src/eu/tclouds/rbpel/system/InputProxy.java](#)

## 4.48 eu.tclouds.rbpel.system.InputProxyClient Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.InputProxyClient:



## Classes

- interface [Return](#)

## Public Member Functions

- Response<? extends [Return](#)> [sendRequestAsync](#) ([RequestID](#) reqid, URI svcurl, byte[] req)
- Response<? extends [Return](#)> [receiveReplyAsync](#) ([RequestID](#) reqid, URI svcurl)

### 4.48.1 Member Function Documentation

#### 4.48.1.1 Response<? extends Return> eu.tclouds.rbpel.system.InputProxyClient.receiveReplyAsync ( RequestID reqid, URI svcurl )

Implemented in [eu.tclouds.rbpel.system.connect.RMIInputProxyClient](#), and [eu.tclouds.rbpel.system.connect.SOAPInputProxy](#).

4.48.1.2 `Response<? extends Return> eu.tclouds.rbpel.system.InputProxyClient.sendRequestAsync ( RequestID reqid, URI svcurl, byte[] req )`

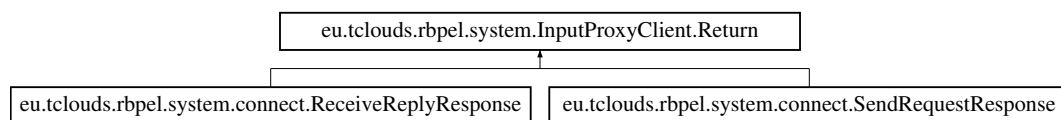
Implemented in [eu.tclouds.rbpel.system.connect.RMIInputProxyClient](#), and [eu.tclouds.rbpel.system.connect.SOA-PIInputProxy](#).

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

- `src/eu/tclouds/rbpel/system/InputProxyClient.java`

## 4.49 eu.tclouds.rbpel.system.InputProxyClient.Return Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.system.InputProxyClient.Return`:



### Public Member Functions

- `byte[] getValue ()`

### 4.49.1 Member Function Documentation

4.49.1.1 `byte [] eu.tclouds.rbpel.system.InputProxyClient.Return.getValue ( )`

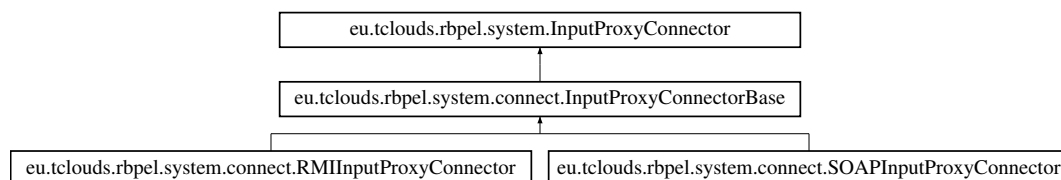
Implemented in [eu.tclouds.rbpel.system.connect.ReceiveReplyResponse](#), and [eu.tclouds.rbpel.system.connect.SendRequestResponse](#).

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

- `src/eu/tclouds/rbpel/system/InputProxyClient.java`

## 4.50 eu.tclouds.rbpel.system.InputProxyConnector Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.system.InputProxyConnector`:



### Public Member Functions

- `UUID getProxyID ()`
- `InputProxyClient connect ()`

## 4.50.1 Member Function Documentation

### 4.50.1.1 InputProxyClient eu.tclouds.rbpel.system.InputProxyConnector.connect ( )

Implemented in [eu.tclouds.rbpel.system.connect.SOAPInputProxyConnector](#), and [eu.tclouds.rbpel.system.connect.RMIInputProxyConnector](#).

### 4.50.1.2 UUID eu.tclouds.rbpel.system.InputProxyConnector.getProxyID ( )

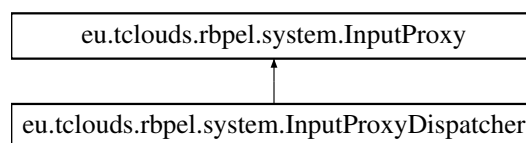
Implemented in [eu.tclouds.rbpel.system.connect.InputProxyConnectorBase](#).

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

- `src/eu/tclouds/rbpel/system/InputProxyConnector.java`

## 4.51 eu.tclouds.rbpel.system.InputProxyDispatcher Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.InputProxyDispatcher:



### Public Member Functions

- `byte[] sendRequest (RequestID reqid, URI svcurl, byte[] req)`
- `byte[] receiveReply (RequestID reqid, URI svcurl)`

### Protected Member Functions

- `void init (ServiceRegistry svcreg) throws IOException, InterruptedException`
- `void startProxy (URI svcurl, InputProxy proxy, OutputProxyFactory opfac, InputProxyConnector con) throws IOException, InterruptedException`

## 4.51.1 Member Function Documentation

### 4.51.1.1 void eu.tclouds.rbpel.system.InputProxyDispatcher.init ( ServiceRegistry svcreg ) throws IOException, InterruptedException [protected]

### 4.51.1.2 byte [] eu.tclouds.rbpel.system.InputProxyDispatcher.receiveReply ( RequestID reqid, URI svcurl )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

### 4.51.1.3 byte [] eu.tclouds.rbpel.system.InputProxyDispatcher.sendRequest ( RequestID reqid, URI svcurl, byte[] req )

Implements [eu.tclouds.rbpel.system.InputProxy](#).



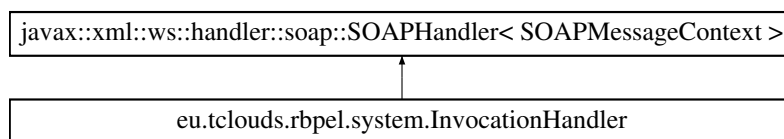
4.51.1.4 void eu.tclouds.rbpel.system.InputProxyDispatcher.startProxy ( URI *svcurl*, InputProxy *proxy*, OutputProxyFactory *opfac*, InputProxyConnector *con* ) throws IOException, InterruptedException  
[protected]

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

- src/eu/tclouds/rbpel/system/InputProxyDispatcher.java

## 4.52 eu.tclouds.rbpel.system.InvocationHandler Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.InvocationHandler:



### Public Member Functions

- [InvocationHandler](#) ([ServiceRegistry](#) *svcreg*)
- boolean [handleMessage](#) ([SOAPMessageContext](#) *cntxt*)
- boolean [handleFault](#) ([SOAPMessageContext](#) *cntxt*)
- void [close](#) ([MessageContext](#) *cntxt*)
- Set< QName > [getHeaders](#) ()

### 4.52.1 Constructor & Destructor Documentation

4.52.1.1 eu.tclouds.rbpel.system.InvocationHandler.InvocationHandler ( [ServiceRegistry](#) *svcreg* )

### 4.52.2 Member Function Documentation

4.52.2.1 void eu.tclouds.rbpel.system.InvocationHandler.close ( [MessageContext](#) *cntxt* )

4.52.2.2 Set<QName> eu.tclouds.rbpel.system.InvocationHandler.getHeaders ( )

4.52.2.3 boolean eu.tclouds.rbpel.system.InvocationHandler.handleFault ( [SOAPMessageContext](#) *cntxt* )

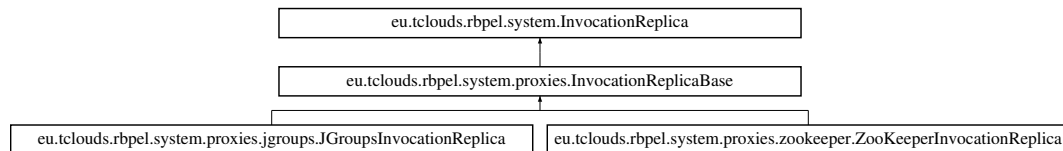
4.52.2.4 boolean eu.tclouds.rbpel.system.InvocationHandler.handleMessage ( [SOAPMessageContext](#) *cntxt* )

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

- src/eu/tclouds/rbpel/system/InvocationHandler.java

## 4.53 eu.tclouds.rbpel.system.InvocationReplica Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.InvocationReplica:



## Public Member Functions

- boolean [isLeader](#) ()
- void [registerListener](#) ([InvocationReplicaListener](#) listener)
- void [deregisterListener](#) ([InvocationReplicaListener](#) listener)

### 4.53.1 Member Function Documentation

4.53.1.1 void [eu.tclouds.rbpel.system.InvocationReplica.deregisterListener](#) ( [InvocationReplicaListener](#) *listener* )

Implemented in [eu.tclouds.rbpel.system.proxies.InvocationReplicaBase](#).

4.53.1.2 boolean [eu.tclouds.rbpel.system.InvocationReplica.isLeader](#) ( )

Implemented in [eu.tclouds.rbpel.system.proxies.InvocationReplicaBase](#).

4.53.1.3 void [eu.tclouds.rbpel.system.InvocationReplica.registerListener](#) ( [InvocationReplicaListener](#) *listener* )

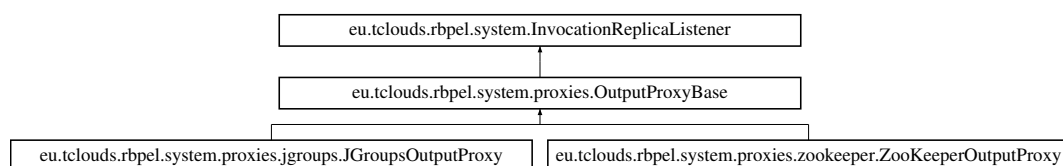
Implemented in [eu.tclouds.rbpel.system.proxies.InvocationReplicaBase](#).

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

- [src/eu/tclouds/rbpel/system/InvocationReplica.java](#)

## 4.54 eu.tclouds.rbpel.system.InvocationReplicaListener Interface Reference

Inheritance diagram for [eu.tclouds.rbpel.system.InvocationReplicaListener](#):



## Public Member Functions

- void [replicaLeaderChanged](#) ([InvocationReplica](#) replica, boolean isleader)

### 4.54.1 Member Function Documentation

4.54.1.1 void [eu.tclouds.rbpel.system.InvocationReplicaListener.replicaLeaderChanged](#) ( [InvocationReplica](#) *replica*, boolean *isleader* )

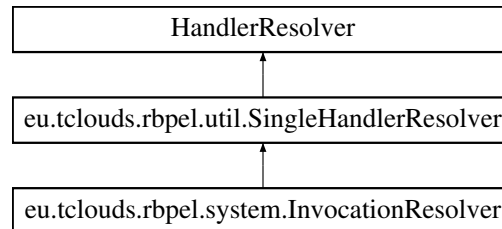
Implemented in [eu.tclouds.rbpel.system.proxies.OutputProxyBase](#).

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

- `src/eu/tclouds/rbpel/system/InvocationReplicaListener.java`

## 4.55 eu.tclouds.rbpel.system.InvocationResolver Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.InvocationResolver:



### Public Member Functions

- [InvocationResolver](#) ([ServiceRegistry](#) svcreg)

### 4.55.1 Constructor & Destructor Documentation

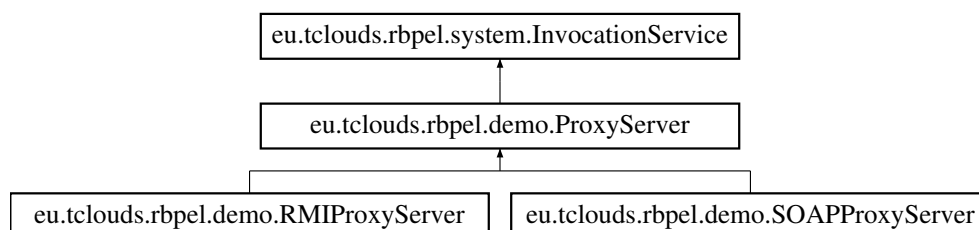
4.55.1.1 `eu.tclouds.rbpel.system.InvocationResolver.InvocationResolver ( ServiceRegistry svcreg )`

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

- `src/eu/tclouds/rbpel/system/InvocationResolver.java`

## 4.56 eu.tclouds.rbpel.system.InvocationService Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.InvocationService:



### Public Member Functions

- Object [invoke](#) (URI srcsvc, [RequestID](#) reqid, URI svcurl, Object req)

### 4.56.1 Member Function Documentation

4.56.1.1 Object `eu.tclouds.rbpel.system.InvocationService.invoke ( URI srcsvc, RequestID reqid, URI svcurl, Object req )`

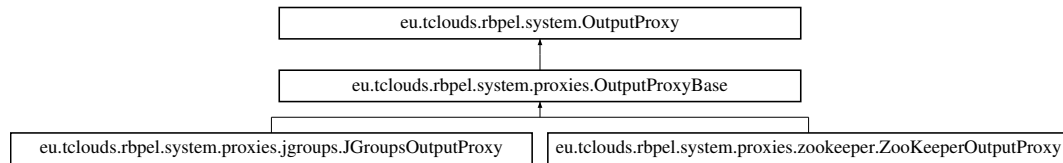
Implemented in [eu.tclouds.rbpel.demo.ProxyServer](#).

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

- `src/eu/tclouds/rbpel/system/InvocationService.java`

## 4.57 eu.tclouds.rbpel.system.OutputProxy Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.OutputProxy:



### Public Member Functions

- SOAPMessage [invoke](#) ([RequestID](#) reqid, URI svcurl, SOAPMessage req)

#### 4.57.1 Member Function Documentation

4.57.1.1 SOAPMessage eu.tclouds.rbpel.system.OutputProxy.invoke ( RequestID reqid, URI svcurl, SOAPMessage req )

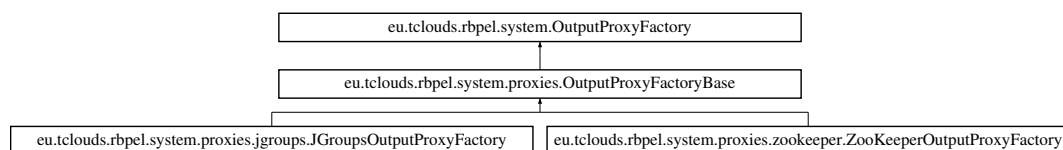
Implemented in [eu.tclouds.rbpel.system.proxies.OutputProxyBase](#).

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

- `src/eu/tclouds/rbpel/system/OutputProxy.java`

## 4.58 eu.tclouds.rbpel.system.OutputProxyFactory Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.OutputProxyFactory:



### Public Member Functions

- [OutputProxy](#) createOutputProxy ([ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep)

#### 4.58.1 Member Function Documentation

4.58.1.1 [OutputProxy](#) eu.tclouds.rbpel.system.OutputProxyFactory.createOutputProxy ( [ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep )

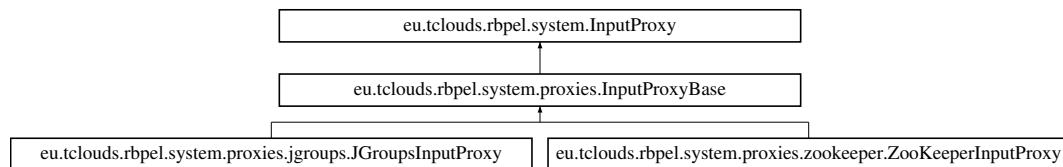
Implemented in [eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory](#), [eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase](#), and [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxyFactory](#).

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

- `src/eu/tclouds/rbpel/system/OutputProxyFactory.java`

## 4.59 eu.tclouds.rbpel.system.proxies.InputProxyBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.InputProxyBase:



### Public Member Functions

- [InputProxyBase](#) (UUID id, URI svcurl, URI repurl, boolean hastransint)
- UUID [getID](#) ()
- URI [getServiceURI](#) ()
- URI [getReplicaURI](#) ()
- boolean [hasTransformedInterface](#) ()
- abstract void [start](#) () throws IOException, InterruptedException
- abstract void [shutdown](#) ()
- abstract [OutputProxyFactory](#) [getOutputProxyFactory](#) ()
- abstract [InvocationReplica](#) [getInvocationReplica](#) ()
- byte[] [receiveReply](#) ([RequestID](#) reqid, URI svcurl)

### Protected Member Functions

- [RequestRecord](#) [getoraddRecord](#) ([RequestRecord](#) rec)
- [TreeMap](#)< Long, [RequestRecord](#) > [getClientRecords](#) (byte[] clientid)
- void [invokeService](#) ([RequestRecord](#) rec) throws InterruptedException
- final void [log](#) (final Level level, final String msg, final Object...args)

### 4.59.1 Constructor & Destructor Documentation

- 4.59.1.1 `eu.tclouds.rbpel.system.proxies.InputProxyBase.InputProxyBase ( UUID id, URI svcurl, URI repurl, boolean hastransint )`

### 4.59.2 Member Function Documentation

- 4.59.2.1 `TreeMap<Long, RequestRecord> eu.tclouds.rbpel.system.proxies.InputProxyBase.getClientRecords ( byte[] clientid ) [protected]`

- 4.59.2.2 `UUID eu.tclouds.rbpel.system.proxies.InputProxyBase.getID ( )`

- 4.59.2.3 `abstract InvocationReplica eu.tclouds.rbpel.system.proxies.InputProxyBase.getInvocationReplica ( ) [pure virtual]`

Implemented in [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy](#), and [eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy](#).

4.59.2.4 **RequestRecord** eu.tclouds.rbpel.system.proxies.InputProxyBase.getoraddRecord ( **RequestRecord** *rec* )  
[protected]

4.59.2.5 **abstract OutputProxyFactory** eu.tclouds.rbpel.system.proxies.InputProxyBase.getOutputProxyFactory ( )  
[pure virtual]

Implemented in [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy](#), and [eu.tclouds.rbpel.system.proxies.-zookeeper.ZooKeeperInputProxy](#).

4.59.2.6 **URI** eu.tclouds.rbpel.system.proxies.InputProxyBase.getReplicaURI ( )

4.59.2.7 **URI** eu.tclouds.rbpel.system.proxies.InputProxyBase.getServiceURI ( )

4.59.2.8 **boolean** eu.tclouds.rbpel.system.proxies.InputProxyBase.hasTransformedInterface ( )

4.59.2.9 **void** eu.tclouds.rbpel.system.proxies.InputProxyBase.invokeService ( **RequestRecord** *rec* ) throws  
**InterruptedException** [protected]

4.59.2.10 **final void** eu.tclouds.rbpel.system.proxies.InputProxyBase.log ( **final Level** *level*, **final String** *msg*, **final Object...** *args* )  
[protected]

4.59.2.11 **byte []** eu.tclouds.rbpel.system.proxies.InputProxyBase.receiveReply ( **RequestID** *reqid*, **URI** *svcurl* )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.59.2.12 **abstract void** eu.tclouds.rbpel.system.proxies.InputProxyBase.shutdown ( ) [pure virtual]

Implemented in [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy](#), and [eu.tclouds.rbpel.system.proxies.-zookeeper.ZooKeeperInputProxy](#).

4.59.2.13 **abstract void** eu.tclouds.rbpel.system.proxies.InputProxyBase.start ( ) throws **IOException**, **InterruptedException**  
[pure virtual]

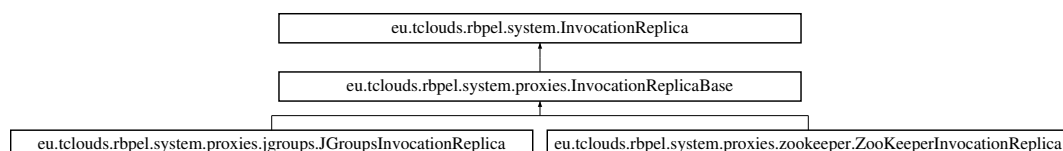
Implemented in [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy](#), and [eu.tclouds.rbpel.system.proxies.-zookeeper.ZooKeeperInputProxy](#).

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

- [src/eu/tclouds/rbpel/system/proxies/InputProxyBase.java](#)

## 4.60 eu.tclouds.rbpel.system.proxies.InvocationReplicaBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.InvocationReplicaBase:



### Public Member Functions

- **boolean** [isLeader](#) ( )

- void [registerListener](#) ([InvocationReplicaListener](#) listener)
- void [deregisterListener](#) ([InvocationReplicaListener](#) listener)

### Protected Member Functions

- void [isLeader](#) (boolean value)

#### 4.60.1 Member Function Documentation

4.60.1.1 void eu.tclouds.rbpel.system.proxies.InvocationReplicaBase.deregisterListener ( [InvocationReplicaListener](#) *listener* )

Implements [eu.tclouds.rbpel.system.InvocationReplica](#).

4.60.1.2 boolean eu.tclouds.rbpel.system.proxies.InvocationReplicaBase.isLeader ( )

Implements [eu.tclouds.rbpel.system.InvocationReplica](#).

4.60.1.3 void eu.tclouds.rbpel.system.proxies.InvocationReplicaBase.isLeader ( boolean *value* ) [protected]

4.60.1.4 void eu.tclouds.rbpel.system.proxies.InvocationReplicaBase.registerListener ( [InvocationReplicaListener](#) *listener* )

Implements [eu.tclouds.rbpel.system.InvocationReplica](#).

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

- src/eu/tclouds/rbpel/system/proxies/InvocationReplicaBase.java

## 4.61 eu.tclouds.rbpel.system.proxies.jgroups.JGroupsHelper Class Reference

### Static Public Member Functions

- static JChannel [createChannel](#) (InetSocketAddress addr, Collection< InetSocketAddress > mbrs) throws Exception

#### 4.61.1 Member Function Documentation

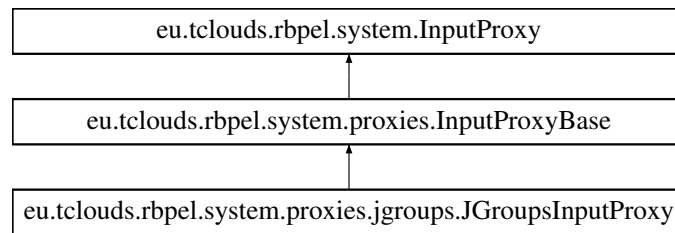
4.61.1.1 static JChannel eu.tclouds.rbpel.system.proxies.jgroups.JGroupsHelper.createChannel ( InetSocketAddress *addr*, Collection< InetSocketAddress > *mbrs* ) throws Exception [static]

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

- src/eu/tclouds/rbpel/system/proxies/jgroups/JGroupsHelper.java

## 4.62 eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy:



## Public Member Functions

- [JGroupsInputProxy](#) (UUID *id*, URI *svcurl*, URI *repurl*, boolean *hastransint*, [ServiceRegistry](#) *svcreg*, InetSocketAddress *addr*, String *cluster*, List< InetSocketAddress > *initmbrs*)
- void [start](#) () throws IOException, InterruptedException
- void [shutdown](#) ()
- [OutputProxyFactory](#) [getOutputProxyFactory](#) ()
- [InvocationReplica](#) [getInvocationReplica](#) ()
- byte[] [sendRequest](#) ([RequestID](#) *reqid*, URI *svcurl*, byte[] *req*)

## Additional Inherited Members

### 4.62.1 Constructor & Destructor Documentation

4.62.1.1 `eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.JGroupsInputProxy ( UUID id, URI svcurl, URI repurl, boolean hastransint, ServiceRegistry svcreg, InetSocketAddress addr, String cluster, List< InetSocketAddress > initmbrs )`

### 4.62.2 Member Function Documentation

4.62.2.1 `InvocationReplica eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.getInvocationReplica ( )`  
[virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.62.2.2 `OutputProxyFactory eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.getOutputProxyFactory ( )`  
[virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.62.2.3 `byte [] eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.sendRequest ( RequestID reqid, URI svcurl, byte[] req )`

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.62.2.4 `void eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.shutdown ( )` [virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.62.2.5 `void eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInputProxy.start ( )` throws IOException, InterruptedException  
[virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

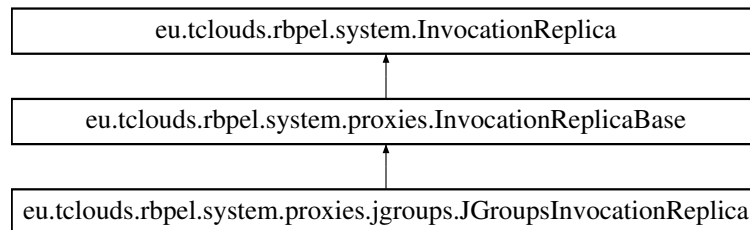


The documentation for this class was generated from the following file:

- `src/eu/tclouds/rbpel/system/proxies/jgroups/JGroupsInputProxy.java`

## 4.63 eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInvocationReplica Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInvocationReplica:



### Public Member Functions

- void [notifyOnViewChange](#) (boolean isleader)

### Additional Inherited Members

#### 4.63.1 Member Function Documentation

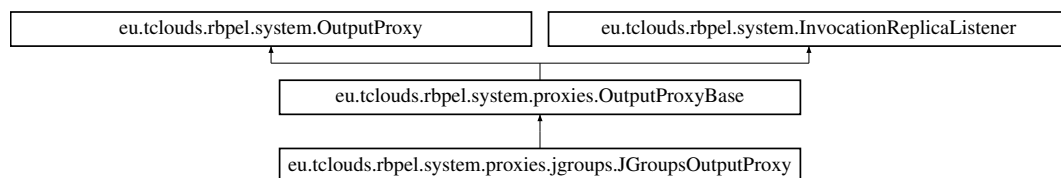
4.63.1.1 void eu.tclouds.rbpel.system.proxies.jgroups.JGroupsInvocationReplica.notifyOnViewChange ( boolean *isleader* )

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

- `src/eu/tclouds/rbpel/system/proxies/jgroups/JGroupsInvocationReplica.java`

## 4.64 eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxy:



### Public Member Functions

- [JGroupsOutputProxy](#) ([ServiceRegistry](#) svcreg, boolean hastransint, [InvocationReplica](#) invrep)

### Protected Member Functions

- byte[] [invoke](#) ([RequestID](#) reqid, URI svcurl, byte[] req, boolean isleader, List< [ServiceRegistry.ReplicaEntry](#) > reps, [ServiceRegistry.ReplicaEntry](#) primrep)

#### 4.64.1 Constructor & Destructor Documentation

- 4.64.1.1 `eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxy.JGroupsOutputProxy ( ServiceRegistry svcreg, boolean hastransint, InvocationReplica invrep )`

#### 4.64.2 Member Function Documentation

- 4.64.2.1 `byte [] eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxy.invoke ( RequestID reqid, URI svcurl, byte[] req, boolean isleader, List< ServiceRegistry.ReplicaEntry > reps, ServiceRegistry.ReplicaEntry primrep )` [protected], [virtual]

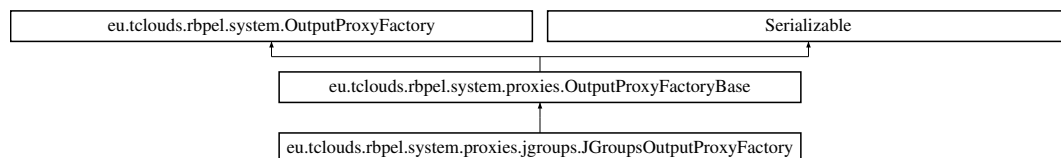
Implements [eu.tclouds.rbpel.system.proxies.OutputProxyBase](#).

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

- `src/eu/tclouds/rbpel/system/proxies/jgroups/JGroupsOutputProxy.java`

### 4.65 eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxyFactory Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxyFactory`:



#### Public Member Functions

- [JGroupsOutputProxyFactory](#) (boolean hastransint)
- [OutputProxy createOutputProxy](#) ([ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep)

#### 4.65.1 Constructor & Destructor Documentation

- 4.65.1.1 `eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxyFactory.JGroupsOutputProxyFactory ( boolean hastransint )`

#### 4.65.2 Member Function Documentation

- 4.65.2.1 `OutputProxy eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxyFactory.createOutputProxy ( ServiceRegistry svcreg, InvocationReplica invrep )` [virtual]

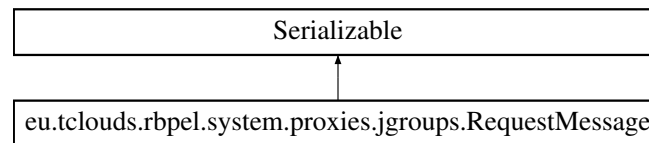
Implements [eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase](#).

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

- `src/eu/tclouds/rbpel/system/proxies/jgroups/JGroupsOutputProxyFactory.java`

### 4.66 eu.tclouds.rbpel.system.proxies.jgroups.RequestMessage Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.proxies.jgroups.RequestMessage`:



### Public Member Functions

- [RequestMessage](#) ([RequestID](#) reqid, byte[] req)
- final [RequestID](#) [getRequestID](#) ()
- final byte[] [getRequest](#) ()

#### 4.66.1 Constructor & Destructor Documentation

4.66.1.1 `eu.tclouds.rbpel.system.proxies.jgroups.RequestMessage.RequestMessage ( RequestID reqid, byte[] req )`

#### 4.66.2 Member Function Documentation

4.66.2.1 `final byte [] eu.tclouds.rbpel.system.proxies.jgroups.RequestMessage.getRequest ( )`

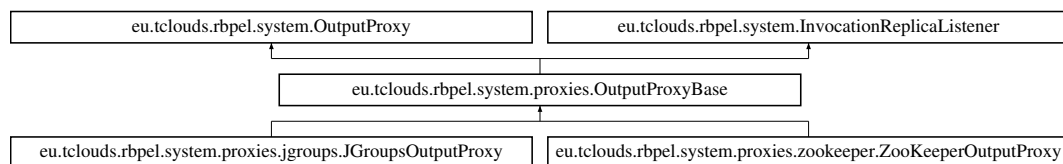
4.66.2.2 `final RequestID eu.tclouds.rbpel.system.proxies.jgroups.RequestMessage.getRequestID ( )`

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

- `src/eu/tclouds/rbpel/system/proxies/jgroups/RequestMessage.java`

## 4.67 eu.tclouds.rbpel.system.proxies.OutputProxyBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.OutputProxyBase:



### Public Member Functions

- [OutputProxyBase](#) ([ServiceRegistry](#) svcreg, boolean hastransint, [InvocationReplica](#) invrep)
- void [close](#) ()
- SOAPMessage [invoke](#) ([RequestID](#) reqid, URI svcurl, SOAPMessage req)
- void [replicaLeaderChanged](#) ([InvocationReplica](#) replica, boolean isleader)

### Protected Member Functions

- abstract byte[] [invoke](#) ([RequestID](#) reqid, URI svcurl, byte[] req, boolean isleader, List< [ServiceRegistry.ReplicaEntry](#) > reps, [ServiceRegistry.ReplicaEntry](#) primrep)
- final void [log](#) (final Level level, final String msg, final Object...args)

### 4.67.1 Constructor & Destructor Documentation

4.67.1.1 `eu.tclouds.rbpel.system.proxies.OutputProxyBase.OutputProxyBase ( ServiceRegistry svcreg, boolean hastransint, InvocationReplica invrep )`

### 4.67.2 Member Function Documentation

4.67.2.1 `void eu.tclouds.rbpel.system.proxies.OutputProxyBase.close ( )`

4.67.2.2 `SOAPMessage eu.tclouds.rbpel.system.proxies.OutputProxyBase.invoke ( RequestID reqid, URI svcurl, SOAPMessage req )`

Implements [eu.tclouds.rbpel.system.OutputProxy](#).

4.67.2.3 `abstract byte [] eu.tclouds.rbpel.system.proxies.OutputProxyBase.invoke ( RequestID reqid, URI svcurl, byte[] req, boolean isleader, List< ServiceRegistry.ReplicaEntry > reps, ServiceRegistry.ReplicaEntry primrep )`  
[protected], [pure virtual]

Implemented in [eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxy](#), and [eu.tclouds.rbpel.system.proxies.jgroups.JGroupsOutputProxy](#).

4.67.2.4 `final void eu.tclouds.rbpel.system.proxies.OutputProxyBase.log ( final Level level, final String msg, final Object... args )` [protected]

4.67.2.5 `void eu.tclouds.rbpel.system.proxies.OutputProxyBase.replicaLeaderChanged ( InvocationReplica replica, boolean isleader )`

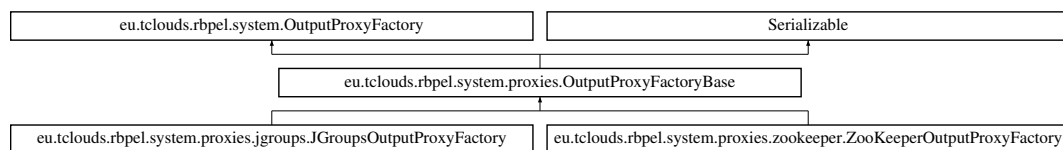
Implements [eu.tclouds.rbpel.system.InvocationReplicaListener](#).

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

- `src/eu/tclouds/rbpel/system/proxies/OutputProxyBase.java`

## 4.68 eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase`:



### Public Member Functions

- [OutputProxyFactoryBase](#) (boolean hastransint)
- boolean [hasTransformedInterface](#) ()
- abstract [OutputProxy](#) [createOutputProxy](#) ([ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep)

### 4.68.1 Constructor & Destructor Documentation

4.68.1.1 `eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase.OutputProxyFactoryBase ( boolean hastransint )`

## 4.68.2 Member Function Documentation

4.68.2.1 abstract **OutputProxy** eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase.createOutputProxy ( **ServiceRegistry** *svcreg*, **InvocationReplica** *invrep* ) [pure virtual]

Implements [eu.tclouds.rbpel.system.OutputProxyFactory](#).

Implemented in [eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory](#), and [eu.tclouds.rbpel-system.proxies.jgroups.JGroupsOutputProxyFactory](#).

4.68.2.2 boolean eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase.hasTransformedInterface ( )

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

- [src/eu/tclouds/rbpel/system/proxies/OutputProxyFactoryBase.java](#)

## 4.69 eu.tclouds.rbpel.system.proxies.RequestRecord Class Reference

### Public Member Functions

- [RequestRecord](#) ([RequestID](#) reqid)
- final [RequestID](#) [getRequestID](#) ( )
- Long [getOrder](#) ( )
- void [initOrder](#) (long value)
- byte[] [getRequest](#) ( ) throws [InterruptedException](#)
- void [setRequest](#) (byte[] rep)
- boolean [hasRequest](#) ( )
- byte[] [getReply](#) ( ) throws [InterruptedException](#)
- void [setReply](#) (byte[] rep)
- boolean [hasReply](#) ( )

### 4.69.1 Constructor & Destructor Documentation

4.69.1.1 eu.tclouds.rbpel.system.proxies.RequestRecord.RequestRecord ( [RequestID](#) *reqid* )

### 4.69.2 Member Function Documentation

4.69.2.1 Long eu.tclouds.rbpel.system.proxies.RequestRecord.getOrder ( )

4.69.2.2 byte [] eu.tclouds.rbpel.system.proxies.RequestRecord.getReply ( ) throws [InterruptedException](#)

4.69.2.3 byte [] eu.tclouds.rbpel.system.proxies.RequestRecord.getRequest ( ) throws [InterruptedException](#)

4.69.2.4 final [RequestID](#) eu.tclouds.rbpel.system.proxies.RequestRecord.getRequestID ( )

4.69.2.5 boolean eu.tclouds.rbpel.system.proxies.RequestRecord.hasReply ( )

4.69.2.6 boolean eu.tclouds.rbpel.system.proxies.RequestRecord.hasRequest ( )

4.69.2.7 void eu.tclouds.rbpel.system.proxies.RequestRecord.initOrder ( long *value* )

4.69.2.8 void eu.tclouds.rbpel.system.proxies.RequestRecord.setReply ( byte[] *rep* )

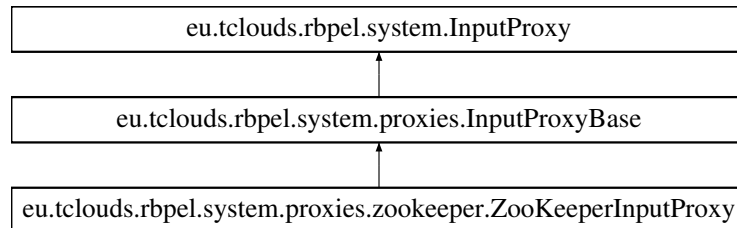
4.69.2.9 void eu.tclouds.rbpel.system.proxies.RequestRecord.setRequest ( byte[] rep )

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

- src/eu/tclouds/rbpel/system/proxies/RequestRecord.java

## 4.70 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy:



### Public Member Functions

- [ZooKeeperInputProxy](#) (UUID id, URI svcurl, URI repurl, boolean hastransint, String zkconstr, int nreplicas)
- void [start](#) () throws InterruptedException, IOException
- void [shutdown](#) ()
- [OutputProxyFactory](#) [getOutputProxyFactory](#) ()
- [InvocationReplica](#) [getInvocationReplica](#) ()
- byte[] [sendRequest](#) ([RequestID](#) reqid, URI svcurl, byte[] req)

### Additional Inherited Members

#### 4.70.1 Constructor & Destructor Documentation

4.70.1.1 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.ZooKeeperInputProxy ( UUID *id*, URI *svcurl*, URI *repurl*, boolean *hastransint*, String *zkconstr*, int *nreplicas* )

#### 4.70.2 Member Function Documentation

4.70.2.1 [InvocationReplica](#) eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.getInvocationReplica ( )  
[virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.70.2.2 [OutputProxyFactory](#) eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.getOutputProxyFactory ( )  
[virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.70.2.3 byte [] eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.sendRequest ( [RequestID](#) *reqid*, URI *svcurl*, byte[] *req* )

Implements [eu.tclouds.rbpel.system.InputProxy](#).

4.70.2.4 void eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.shutdown ( ) [virtual]

Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

4.70.2.5 void eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInputProxy.start ( ) throws InterruptedException, IOException [virtual]

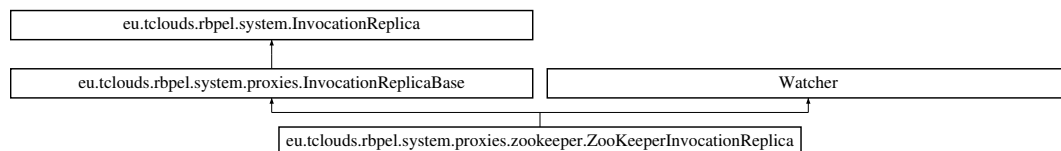
Implements [eu.tclouds.rbpel.system.proxies.InputProxyBase](#).

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

- src/eu/tclouds/rbpel/system/proxies/zookeeper/ZooKeeperInputProxy.java

## 4.71 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInvocationReplica Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInvocationReplica:



### Public Member Functions

- [ZooKeeperInvocationReplica](#) (URI svcurl, String zkconstr) throws IOException, KeeperException, InterruptedException
- void [process](#) (WatchedEvent event)

### Protected Member Functions

- void [checkLeader](#) () throws InterruptedException, KeeperException, IOException

### 4.71.1 Constructor & Destructor Documentation

4.71.1.1 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInvocationReplica.ZooKeeperInvocationReplica ( URI svcurl, String zkconstr ) throws IOException, KeeperException, InterruptedException

### 4.71.2 Member Function Documentation

4.71.2.1 void eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInvocationReplica.checkLeader ( ) throws InterruptedException, KeeperException, IOException [protected]

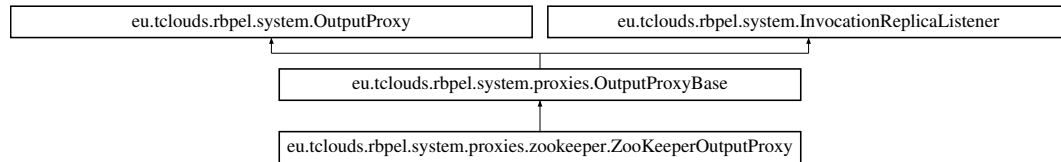
4.71.2.2 void eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperInvocationReplica.process ( WatchedEvent event )

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

- src/eu/tclouds/rbpel/system/proxies/zookeeper/ZooKeeperInvocationReplica.java

## 4.72 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxy Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxy:



### Public Member Functions

- [ZooKeeperOutputProxy](#) ([ServiceRegistry](#) svcreg, boolean hastransint, [InvocationReplica](#) invrep, String zkconstr, int nreplicas)

### Protected Member Functions

- byte[] [invoke](#) ([RequestID](#) reqid, URI svcurl, byte[] req, boolean isleader, List< [ServiceRegistry.ReplicaEntry](#) > reps, [ServiceRegistry.ReplicaEntry](#) primrep)

### 4.72.1 Constructor & Destructor Documentation

- 4.72.1.1 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxy.ZooKeeperOutputProxy ( [ServiceRegistry](#) svcreg, boolean hastransint, [InvocationReplica](#) invrep, String zkconstr, int nreplicas )

### 4.72.2 Member Function Documentation

- 4.72.2.1 byte [] eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxy.invoke ( [RequestID](#) reqid, URI svcurl, byte[] req, boolean isleader, List< [ServiceRegistry.ReplicaEntry](#) > reps, [ServiceRegistry.ReplicaEntry](#) primrep )  
[protected], [virtual]

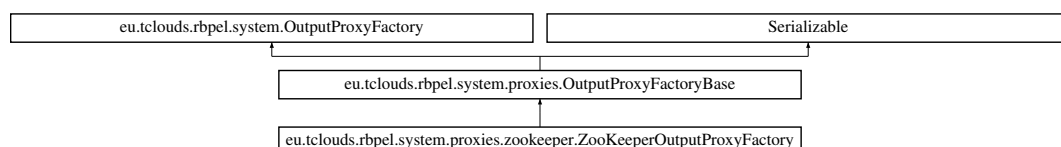
Implements [eu.tclouds.rbpel.system.proxies.OutputProxyBase](#).

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

- src/eu/tclouds/rbpel/system/proxies/zookeeper/ZooKeeperOutputProxy.java

## 4.73 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory:





## Public Member Functions

- [ZooKeeperOutputProxyFactory](#) (boolean hastransint, String zkconstr, int nreplicas)
- [OutputProxy](#) [createOutputProxy](#) ([ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep)

### 4.73.1 Constructor & Destructor Documentation

- 4.73.1.1 eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory.ZooKeeperOutputProxyFactory ( boolean hastransint, String zkconstr, int nreplicas )

### 4.73.2 Member Function Documentation

- 4.73.2.1 [OutputProxy](#) eu.tclouds.rbpel.system.proxies.zookeeper.ZooKeeperOutputProxyFactory.createOutputProxy ( [ServiceRegistry](#) svcreg, [InvocationReplica](#) invrep ) [virtual]

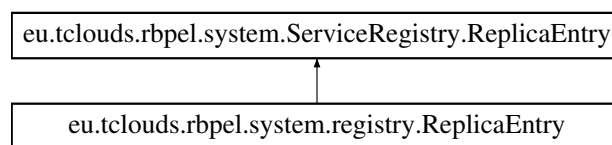
Implements [eu.tclouds.rbpel.system.proxies.OutputProxyFactoryBase](#).

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

- src/eu/tclouds/rbpel/system/proxies/zookeeper/ZooKeeperOutputProxyFactory.java

## 4.74 eu.tclouds.rbpel.system.registry.ReplicaEntry Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.registry.ReplicaEntry:



## Public Member Functions

- [ReplicaEntry](#) (Object id, UUID proxyid, [InputProxyClient](#) proxy, Serializable internal)
- Object [getID](#) ()
- UUID [getProxyID](#) ()
- [InputProxyClient](#) [getProxy](#) ()
- Serializable [getInternal](#) ()
- int [hashCode](#) ()
- boolean [equals](#) (Object obj)

### 4.74.1 Constructor & Destructor Documentation

- 4.74.1.1 eu.tclouds.rbpel.system.registry.ReplicaEntry.ReplicaEntry ( Object id, UUID proxyid, [InputProxyClient](#) proxy, Serializable internal )

### 4.74.2 Member Function Documentation

- 4.74.2.1 boolean eu.tclouds.rbpel.system.registry.ReplicaEntry.equals ( Object obj )

- 4.74.2.2 Object eu.tclouds.rbpel.system.registry.ReplicaEntry.getID ( )

4.74.2.3 `Serializable eu.tclouds.rbpel.system.registry.ReplicaEntry.getInternal ( )`

4.74.2.4 `InputProxyClient eu.tclouds.rbpel.system.registry.ReplicaEntry.getProxy ( )`

Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry](#).

4.74.2.5 `UUID eu.tclouds.rbpel.system.registry.ReplicaEntry.getProxyID ( )`

Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry](#).

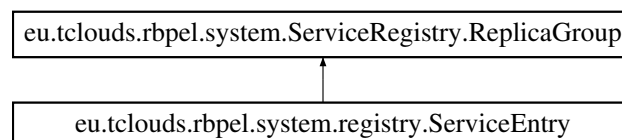
4.74.2.6 `int eu.tclouds.rbpel.system.registry.ReplicaEntry.hashCode ( )`

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

- `src/eu/tclouds/rbpel/system/registry/ReplicaEntry.java`

## 4.75 eu.tclouds.rbpel.system.registry.ServiceEntry Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.registry.ServiceEntry`:



### Public Member Functions

- [ServiceEntry](#) (`URI svcurl`, `OutputProxyFactory opfac`)
- `Collection<? extends ServiceRegistry.ReplicaEntry > getActiveReplicas (Listener l)`
- `void registerListener (Listener l)`
- `void deregisterListener (Listener l)`
- `OutputProxy createProxy (InvocationReplica replica, ServiceRegistry registry)`
- `void addReplica (ReplicaEntry rep)`
- `void removeReplica (Object id)`
- `void waitForReplicas (int minreps) throws InterruptedException`
- `URI getURI ()`
- `Map< Object, ReplicaEntry > getReplicas ()`
- `Collection< Serializable > getInternals ()`

### 4.75.1 Constructor & Destructor Documentation

4.75.1.1 `eu.tclouds.rbpel.system.registry.ServiceEntry.ServiceEntry ( URI svcurl, OutputProxyFactory opfac )`

### 4.75.2 Member Function Documentation

4.75.2.1 `void eu.tclouds.rbpel.system.registry.ServiceEntry.addReplica ( ReplicaEntry rep )`

4.75.2.2 `OutputProxy eu.tclouds.rbpel.system.registry.ServiceEntry.createProxy ( InvocationReplica replica, ServiceRegistry registry )`

4.75.2.3 void eu.tclouds.rbpel.system.registry.ServiceEntry.deregisterListener ( Listener l )

Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup](#).

4.75.2.4 Collection<? extends ServiceRegistry.ReplicaEntry> eu.tclouds.rbpel.system.registry.ServiceEntry.getActiveReplicas ( Listener l )

Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup](#).

4.75.2.5 Collection<Serializable> eu.tclouds.rbpel.system.registry.ServiceEntry.getInternals ( )

4.75.2.6 Map<Object, ReplicaEntry> eu.tclouds.rbpel.system.registry.ServiceEntry.getReplicas ( )

4.75.2.7 URI eu.tclouds.rbpel.system.registry.ServiceEntry.getURI ( )

4.75.2.8 void eu.tclouds.rbpel.system.registry.ServiceEntry.registerListener ( Listener l )

Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup](#).

4.75.2.9 void eu.tclouds.rbpel.system.registry.ServiceEntry.removeReplica ( Object id )

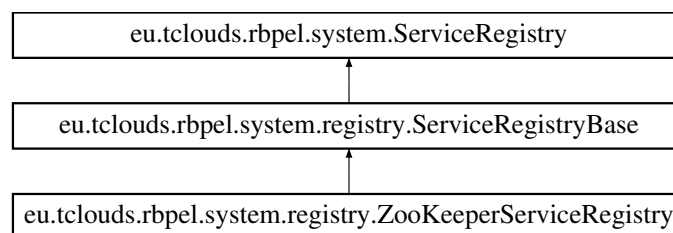
4.75.2.10 void eu.tclouds.rbpel.system.registry.ServiceEntry.waitForReplicas ( int minreps ) throws InterruptedException

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

- src/eu/tclouds/rbpel/system/registry/ServiceEntry.java

## 4.76 eu.tclouds.rbpel.system.registry.ServiceRegistryBase Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.registry.ServiceRegistryBase:



### Public Member Functions

- [OutputProxy](#) [getProxy](#) (URI svcurl, [InvocationReplica](#) replica) throws IOException, InterruptedException
- [ReplicaGroup](#) [getReplicaGroup](#) (URI svcurl) throws IOException, InterruptedException
- Collection<? extends Serializable > [getReplicaInternals](#) (URI svcurl) throws IOException, InterruptedException

### Protected Member Functions

- [ServiceEntry](#) [getServiceEntry](#) (URI svcurl) throws IOException, InterruptedException
- abstract [ServiceEntry](#) [createServiceEntry](#) (URI svcurl) throws IOException, InterruptedException

#### 4.76.1 Member Function Documentation

4.76.1.1 **abstract ServiceEntry** `eu.tclouds.rbpel.system.registry.ServiceRegistryBase.createServiceEntry ( URI svcurl )`  
 throws `IOException`, `InterruptedException` `[protected]`, `[pure virtual]`

Implemented in [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry](#).

4.76.1.2 **OutputProxy** `eu.tclouds.rbpel.system.registry.ServiceRegistryBase.getProxy ( URI svcurl, InvocationReplica replica )` throws `IOException`, `InterruptedException`

Implements [eu.tclouds.rbpel.system.ServiceRegistry](#).

4.76.1.3 **ReplicaGroup** `eu.tclouds.rbpel.system.registry.ServiceRegistryBase.getReplicaGroup ( URI svcurl )` throws `IOException`, `InterruptedException`

Implements [eu.tclouds.rbpel.system.ServiceRegistry](#).

4.76.1.4 **Collection**<? extends `Serializable`> `eu.tclouds.rbpel.system.registry.ServiceRegistryBase.getReplicaInternals ( URI svcurl )` throws `IOException`, `InterruptedException`

Implements [eu.tclouds.rbpel.system.ServiceRegistry](#).

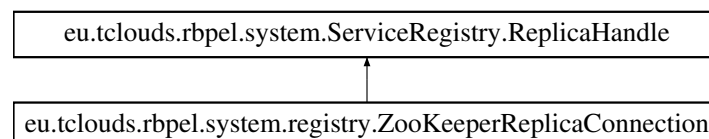
4.76.1.5 **ServiceEntry** `eu.tclouds.rbpel.system.registry.ServiceRegistryBase.getServiceEntry ( URI svcurl )` throws `IOException`, `InterruptedException` `[protected]`

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

- `src/eu/tclouds/rbpel/system/registry/ServiceRegistryBase.java`

#### 4.77 eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection Class Reference

Inheritance diagram for `eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection`:



##### Public Member Functions

- [ZooKeeperReplicaConnection](#) ([RBPELZooKeeper](#) zk, String node)
- String [getReplicaNode](#) ()
- void [remove](#) ()

#### 4.77.1 Constructor & Destructor Documentation

4.77.1.1 `eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection.ZooKeeperReplicaConnection ( RBPELZooKeeper zk, String node )`

## 4.77.2 Member Function Documentation

4.77.2.1 String eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection.getReplicaNode ( )

4.77.2.2 void eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection.remove ( )

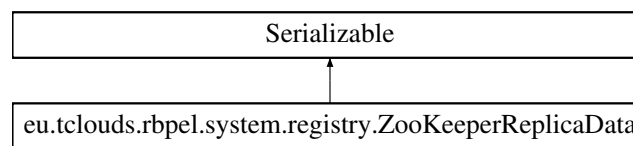
Implements [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaHandle](#).

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

- src/eu/tclouds/rbpel/system/registry/ZooKeeperReplicaConnection.java

## 4.78 eu.tclouds.rbpel.system.registry.ZooKeeperReplicaData Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.registry.ZooKeeperReplicaData:



### Public Member Functions

- [ZooKeeperReplicaData](#) ([InputProxyConnector](#) ipcon, [Serializable](#) internal)
- final [InputProxyConnector](#) [getConnector](#) ( )
- final [Serializable](#) [getInternal](#) ( )

## 4.78.1 Constructor & Destructor Documentation

4.78.1.1 eu.tclouds.rbpel.system.registry.ZooKeeperReplicaData.ZooKeeperReplicaData ( [InputProxyConnector](#) ipcon, [Serializable](#) internal )

## 4.78.2 Member Function Documentation

4.78.2.1 final [InputProxyConnector](#) eu.tclouds.rbpel.system.registry.ZooKeeperReplicaData.getConnector ( )

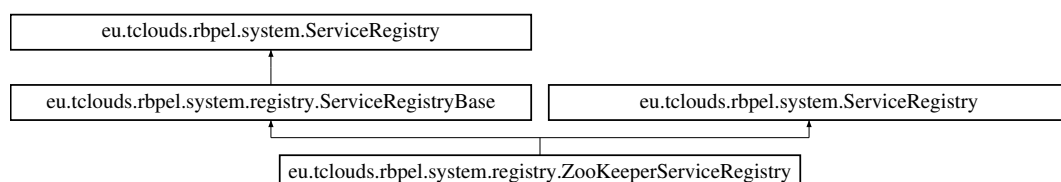
4.78.2.2 final [Serializable](#) eu.tclouds.rbpel.system.registry.ZooKeeperReplicaData.getInternal ( )

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

- src/eu/tclouds/rbpel/system/registry/ZooKeeperReplicaData.java

## 4.79 eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry:



## Classes

- class [ReplicaWatcher](#)

## Public Member Functions

- [ZooKeeperServiceRegistry](#) (String zkconstr) throws IOException, InterruptedException
- void [waitForReplicas](#) (URI svcurl, int minreps) throws IOException, InterruptedException
- [ReplicaHandle](#) [registerReplica](#) (URI svcurl, [OutputProxyFactory](#) opfac, [InputProxyConnector](#) ipcon, Serializable internal) throws InterruptedException, IOException

## Protected Member Functions

- [ServiceEntry](#) [createServiceEntry](#) (URI svcurl) throws IOException, InterruptedException
- [ServiceEntry](#) [waitForService](#) (URI svcurl) throws IOException, InterruptedException
- void [updateReplicas](#) ([ServiceEntry](#) svcent) throws IOException, KeeperException, InterruptedException

### 4.79.1 Constructor & Destructor Documentation

- 4.79.1.1 [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.ZooKeeperServiceRegistry](#) ( String *zkconstr* ) throws IOException, InterruptedException

### 4.79.2 Member Function Documentation

- 4.79.2.1 [ServiceEntry](#) [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.createServiceEntry](#) ( URI *svcurl* ) throws IOException, InterruptedException [protected], [virtual]

Implements [eu.tclouds.rbpel.system.registry.ServiceRegistryBase](#).

- 4.79.2.2 [ReplicaHandle](#) [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.registerReplica](#) ( URI *svcurl*, [OutputProxyFactory](#) *opfac*, [InputProxyConnector](#) *ipcon*, [Serializable](#) *internal* ) throws InterruptedException, IOException

Implements [eu.tclouds.rbpel.system.ServiceRegistry](#).

- 4.79.2.3 void [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.updateReplicas](#) ( [ServiceEntry](#) *svcent* ) throws IOException, KeeperException, InterruptedException [protected]

- 4.79.2.4 void [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.waitForReplicas](#) ( URI *svcurl*, int *minreps* ) throws IOException, InterruptedException

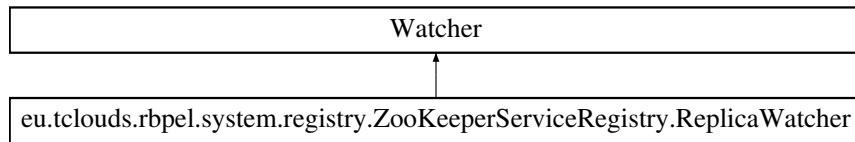
- 4.79.2.5 [ServiceEntry](#) [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.waitForService](#) ( URI *svcurl* ) throws IOException, InterruptedException [protected]

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

- [src/eu/tclouds/rbpel/system/registry/ZooKeeperServiceRegistry.java](#)

## 4.80 eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.ReplicaWatcher Class Reference

Inheritance diagram for [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.ReplicaWatcher](#):



## Public Member Functions

- void [process](#) (WatchedEvent event)

### 4.80.1 Member Function Documentation

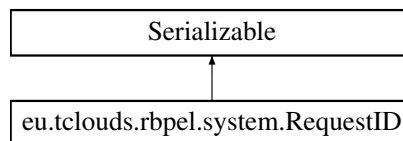
4.80.1.1 void eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry.ReplicaWatcher.process ( WatchedEvent *event* )

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

- src/eu/tclouds/rbpel/system/registry/ZooKeeperServiceRegistry.java

## 4.81 eu.tclouds.rbpel.system.RequestID Class Reference

Inheritance diagram for eu.tclouds.rbpel.system.RequestID:



## Public Member Functions

- [RequestID](#) ()
- [RequestID](#) (byte[] base, long seqno)
- byte[] [getBytes](#) ()
- byte[] [getBase](#) ()
- long [getSeqNo](#) ()
- boolean [equals](#) (Object obj)
- int [hashCode](#) ()
- String [toString](#) ()

### 4.81.1 Constructor & Destructor Documentation

4.81.1.1 eu.tclouds.rbpel.system.RequestID.RequestID ( )

4.81.1.2 eu.tclouds.rbpel.system.RequestID.RequestID ( byte[] *base*, long *seqno* )

### 4.81.2 Member Function Documentation

4.81.2.1 boolean eu.tclouds.rbpel.system.RequestID.equals ( Object *obj* )

4.81.2.2 byte [] eu.tclouds.rbpel.system.RequestID.getBase ( )

4.81.2.3 `byte [] eu.tclouds.rbpel.system.RequestID.getBytes ( )`

4.81.2.4 `long eu.tclouds.rbpel.system.RequestID.getSeqNo ( )`

4.81.2.5 `int eu.tclouds.rbpel.system.RequestID.hashCode ( )`

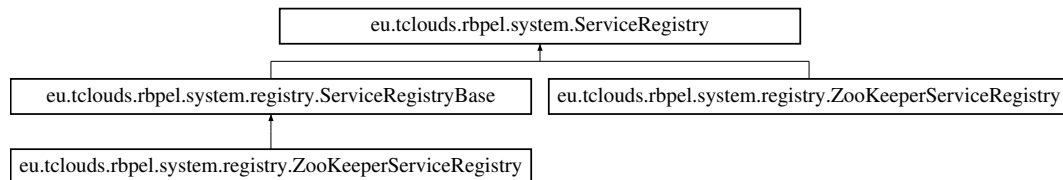
4.81.2.6 `String eu.tclouds.rbpel.system.RequestID.toString ( )`

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

- `src/eu/tclouds/rbpel/system/RequestID.java`

## 4.82 eu.tclouds.rbpel.system.ServiceRegistry Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.system.ServiceRegistry`:



### Classes

- interface [ReplicaEntry](#)
- interface [ReplicaGroup](#)
- interface [ReplicaHandle](#)

### Public Member Functions

- [OutputProxy](#) `getProxy` ([URI](#) svcurl, [InvocationReplica](#) invrep) throws `IOException`, `InterruptedException`
- [ReplicaGroup](#) `getReplicaGroup` ([URI](#) svcurl) throws `IOException`, `InterruptedException`
- [ReplicaHandle](#) `registerReplica` ([URI](#) svcurl, [OutputProxyFactory](#) opfac, [InputProxyConnector](#) ipcon, `Serializable` internal) throws `IOException`, `InterruptedException`
- `Collection<? extends Serializable>` `getReplicaInternals` ([URI](#) svcurl) throws `IOException`, `InterruptedException`

#### 4.82.1 Member Function Documentation

4.82.1.1 **`OutputProxy`** `eu.tclouds.rbpel.system.ServiceRegistry.getProxy ( URI svcurl, InvocationReplica invrep )` throws `IOException`, `InterruptedException`

Implemented in [eu.tclouds.rbpel.system.registry.ServiceRegistryBase](#).

4.82.1.2 **`ReplicaGroup`** `eu.tclouds.rbpel.system.ServiceRegistry.getReplicaGroup ( URI svcurl )` throws `IOException`, `InterruptedException`

Implemented in [eu.tclouds.rbpel.system.registry.ServiceRegistryBase](#).



4.82.1.3 `Collection<? extends Serializable> eu.tclouds.rbpel.system.ServiceRegistry.getReplicaInternals ( URI svcurl )`  
throws `IOException`, `InterruptedException`

Implemented in [eu.tclouds.rbpel.system.registry.ServiceRegistryBase](#).

4.82.1.4 `ReplicaHandle eu.tclouds.rbpel.system.ServiceRegistry.registerReplica ( URI svcurl, OutputProxyFactory opfac, InputProxyConnector ipcon, Serializable internal )` throws `IOException`, `InterruptedException`

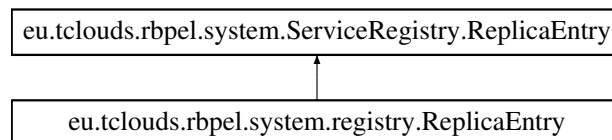
Implemented in [eu.tclouds.rbpel.system.registry.ZooKeeperServiceRegistry](#).

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

- `src/eu/tclouds/rbpel/system/ServiceRegistry.java`

## 4.83 eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry`:



### Public Member Functions

- UUID [getProxyID](#) ()
- [InputProxyClient](#) [getProxy](#) ()

### 4.83.1 Member Function Documentation

4.83.1.1 `InputProxyClient eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry.getProxy ( )`

Implemented in [eu.tclouds.rbpel.system.registry.ReplicaEntry](#).

4.83.1.2 `UUID eu.tclouds.rbpel.system.ServiceRegistry.ReplicaEntry.getProxyID ( )`

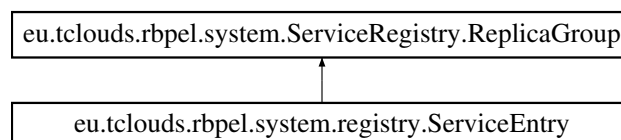
Implemented in [eu.tclouds.rbpel.system.registry.ReplicaEntry](#).

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

- `src/eu/tclouds/rbpel/system/ServiceRegistry.java`

## 4.84 eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup Interface Reference

Inheritance diagram for `eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup`:



## Classes

- interface [Listener](#)

## Public Member Functions

- Collection<? extends [ReplicaEntry](#) > [getActiveReplicas](#) ([Listener](#) l)
- void [registerListener](#) ([Listener](#) l)
- void [deregisterListener](#) ([Listener](#) l)

### 4.84.1 Member Function Documentation

4.84.1.1 void [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.deregisterListener](#) ( [Listener](#) l )

Implemented in [eu.tclouds.rbpel.system.registry.ServiceEntry](#).

4.84.1.2 Collection<? extends [ReplicaEntry](#)> [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.getActiveReplicas](#) ( [Listener](#) l )

Implemented in [eu.tclouds.rbpel.system.registry.ServiceEntry](#).

4.84.1.3 void [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.registerListener](#) ( [Listener](#) l )

Implemented in [eu.tclouds.rbpel.system.registry.ServiceEntry](#).

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

- [src/eu/tclouds/rbpel/system/ServiceRegistry.java](#)

## 4.85 eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.Listener Interface Reference

### Public Member Functions

- void [replicaAdded](#) ([ReplicaGroup](#) group, [ReplicaEntry](#) rep)
- void [replicaRemoved](#) ([ReplicaGroup](#) group, [ReplicaEntry](#) rep)

### 4.85.1 Member Function Documentation

4.85.1.1 void [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.Listener.replicaAdded](#) ( [ReplicaGroup](#) group, [ReplicaEntry](#) rep )

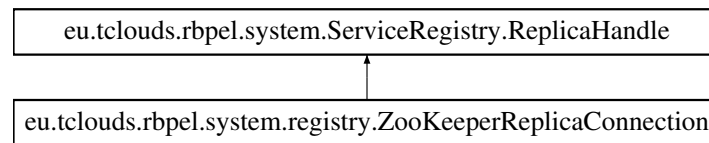
4.85.1.2 void [eu.tclouds.rbpel.system.ServiceRegistry.ReplicaGroup.Listener.replicaRemoved](#) ( [ReplicaGroup](#) group, [ReplicaEntry](#) rep )

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

- [src/eu/tclouds/rbpel/system/ServiceRegistry.java](#)

## 4.86 eu.tclouds.rbpel.system.ServiceRegistry.ReplicaHandle Interface Reference

Inheritance diagram for eu.tclouds.rbpel.system.ServiceRegistry.ReplicaHandle:



### Public Member Functions

- void [remove](#) ()

#### 4.86.1 Member Function Documentation

4.86.1.1 void eu.tclouds.rbpel.system.ServiceRegistry.ReplicaHandle.remove ( )

Implemented in [eu.tclouds.rbpel.system.registry.ZooKeeperReplicaConnection](#).

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

- src/eu/tclouds/rbpel/system/ServiceRegistry.java

## 4.87 eu.tclouds.rbpel.system.zookeeper.Directory Enum Reference

### Public Member Functions

- String [getRelativePath](#) ()

### Public Attributes

- [Replicas](#) =( "replicas" )
- [Requests](#) =( "requests" )
- [Leader](#) =( "leader" )

#### 4.87.1 Member Function Documentation

4.87.1.1 String eu.tclouds.rbpel.system.zookeeper.Directory.getRelativePath ( )

#### 4.87.2 Member Data Documentation

4.87.2.1 eu.tclouds.rbpel.system.zookeeper.Directory.Leader =( "leader" )

4.87.2.2 eu.tclouds.rbpel.system.zookeeper.Directory.Replicas =( "replicas" )

4.87.2.3 eu.tclouds.rbpel.system.zookeeper.Directory.Requests =( "requests" )

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

- src/eu/tclouds/rbpel/system/zookeeper/Directory.java

## 4.88 eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper Class Reference

### Public Member Functions

- [RBPELZooKeeper](#) (String zkconstr) throws IOException, InterruptedException
- void [close](#) () throws InterruptedException
- void [createRegistryStructure](#) (URI svcurl, byte[] svcdata) throws IOException, KeeperException, InterruptedException
- byte[] [getServiceData](#) (URI svcurl) throws IOException, KeeperException, InterruptedException
- void [createProxyStructure](#) (URI svcurl) throws IOException, KeeperException, InterruptedException
- String [createReplicaNode](#) (URI svcurl, byte[] data) throws IOException, KeeperException, InterruptedException
- byte[] [getReplicaNodeData](#) (URI svcurl, String repnode) throws IOException, KeeperException, InterruptedException
- List< String > [getReplicaNodes](#) (URI svcurl, Watcher watcher) throws IOException, KeeperException, InterruptedException
- int [getNextRequestNumber](#) (URI svcurl) throws IOException, KeeperException, InterruptedException
- String [createRequestNode](#) (URI svcurl, byte[] data) throws IOException, KeeperException, InterruptedException
- List< String > [getRequestNodes](#) (URI svcurl, Watcher watcher) throws IOException, KeeperException, InterruptedException
- String [createLeaderNode](#) (URI svcurl, byte[] data) throws IOException, KeeperException, InterruptedException
- List< String > [getLeaderNodes](#) (URI svcurl, Watcher watcher) throws IOException, KeeperException, InterruptedException
- byte[] [getData](#) (String node, Watcher watcher) throws IOException, KeeperException, InterruptedException
- boolean [exists](#) (String node, Watcher watcher) throws IOException, KeeperException, InterruptedException

### Static Public Member Functions

- static final String [getServicePath](#) (URI svcurl)
- static final URI [getServiceURIFromDirectory](#) (String dir)
- static final String [getRequestNode](#) (URI svcurl, int seqno)

### Static Public Attributes

- static final int [NUMBER\\_OF\\_RETRIES](#) = 5
- static final int [PAUSE\\_AFTER\\_LOSS](#) = 1000

#### 4.88.1 Constructor & Destructor Documentation

- 4.88.1.1 eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.RBPELZooKeeper ( String *zkconstr* ) throws IOException, InterruptedException

#### 4.88.2 Member Function Documentation

- 4.88.2.1 void eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.close ( ) throws InterruptedException
- 4.88.2.2 String eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.createLeaderNode ( URI *svcurl*, byte[] *data* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.3 void eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.createProxyStructure ( URI *svcurl* ) throws IOException, KeeperException, InterruptedException

- 4.88.2.4 void eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.createRegistryStructure ( URI *svcurl*, byte[] *svcddata* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.5 String eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.createReplicaNode ( URI *svcurl*, byte[] *data* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.6 String eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.createRequestNode ( URI *svcurl*, byte[] *data* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.7 boolean eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.exists ( String *node*, Watcher *watcher* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.8 byte [] eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getData ( String *node*, Watcher *watcher* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.9 List<String> eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getLeaderNodes ( URI *svcurl*, Watcher *watcher* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.10 int eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getNextRequestNumber ( URI *svcurl* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.11 byte [] eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getReplicaNodeData ( URI *svcurl*, String *repline* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.12 List<String> eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getReplicaNodes ( URI *svcurl*, Watcher *watcher* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.13 static final String eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getRequestNode ( URI *svcurl*, int *seqno* ) [static]
- 4.88.2.14 List<String> eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getRequestNodes ( URI *svcurl*, Watcher *watcher* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.15 byte [] eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getServiceData ( URI *svcurl* ) throws IOException, KeeperException, InterruptedException
- 4.88.2.16 static final String eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getServicePath ( URI *svcurl* ) [static]
- 4.88.2.17 static final URI eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.getServiceURIFromDirectory ( String *dir* ) [static]

### 4.88.3 Member Data Documentation

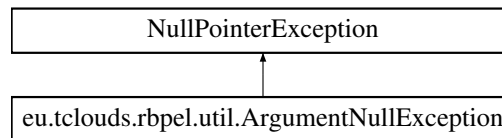
- 4.88.3.1 final int eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.NUMBER\_OF\_RETRIES = 5 [static]
- 4.88.3.2 final int eu.tclouds.rbpel.system.zookeeper.RBPELZooKeeper.PAUSE\_AFTER\_LOSS = 1000 [static]

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

- src/eu/tclouds/rbpel/system/zookeeper/RBPELZooKeeper.java

## 4.89 eu.tclouds.rbpel.util.ArgumentNullException Class Reference

Inheritance diagram for eu.tclouds.rbpel.util.ArgumentNullException:



## Public Member Functions

- [ArgumentNullException](#) (String param)

### 4.89.1 Constructor & Destructor Documentation

4.89.1.1 `eu.tclouds.rbpel.util.ArgumentNullException.ArgumentNullException ( String param )`

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

- `src/eu/tclouds/rbpel/util/ArgumentNullException.java`

## 4.90 eu.tclouds.rbpel.util.Convert Class Reference

### Static Public Member Functions

- static final Boolean [tryParseBoolean](#) (final String s)
- static final boolean [parseBoolean](#) (final String s) throws `NumberFormatException`
- static final Integer [tryParseInteger](#) (final String s)
- static final int [parseInteger](#) (final String s) throws `NumberFormatException`
- static final byte[] [serializeObject](#) (final Object obj)
- static final Object [deserializeObject](#) (final byte[] data)
- static final byte[] [toByteArray](#) (final long v)
- static final byte[] [toByteArray](#) (final UUID uuid)
- static final String [toHexString](#) (final byte[] bytes)
- static final String [toHexString](#) (final byte[] bytes, final int off, final int len)

### 4.90.1 Member Function Documentation

4.90.1.1 `static final Object eu.tclouds.rbpel.util.Convert.deserializeObject ( final byte[] data ) [static]`

4.90.1.2 `static final boolean eu.tclouds.rbpel.util.Convert.parseBoolean ( final String s ) throws NumberFormatException [static]`

4.90.1.3 `static final int eu.tclouds.rbpel.util.Convert.parseInteger ( final String s ) throws NumberFormatException [static]`

4.90.1.4 `static final byte [] eu.tclouds.rbpel.util.Convert.serializeObject ( final Object obj ) [static]`

4.90.1.5 `static final byte [] eu.tclouds.rbpel.util.Convert.toByteArray ( final long v ) [static]`

4.90.1.6 `static final byte [] eu.tclouds.rbpel.util.Convert.toByteArray ( final UUID uuid ) [static]`

4.90.1.7 `static final String eu.tclouds.rbpel.util.Convert.toHexString ( final byte[] bytes ) [static]`

4.90.1.8 static final String eu.tclouds.rbpel.util.Convert.toHexString ( final byte[] bytes, final int off, final int len )  
[static]

4.90.1.9 static final Boolean eu.tclouds.rbpel.util.Convert.tryParseBoolean ( final String s ) [static]

4.90.1.10 static final Integer eu.tclouds.rbpel.util.Convert.tryParseInteger ( final String s ) [static]

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

- src/eu/tclouds/rbpel/util/Convert.java

## 4.91 eu.tclouds.rbpel.util.DateHelper Class Reference

### Static Public Member Functions

- static String [getDefaultString](#) (Date date)
- static String [getDefaultMillisString](#) (Date date)

### Static Public Attributes

- static final long [NanosMillis](#) = 1000000L
- static final String [FormatDefault](#) = "%1\$tY-%1\$tm-%1\$td %1\$tH:%1\$tM:%1\$tS"
- static final String [FormatDefaultMillis](#) = "%1\$tY-%1\$tm-%1\$td %1\$tH:%1\$tM:%1\$tS.%1\$tL"

### Protected Member Functions

- [DateHelper](#) ()

### 4.91.1 Constructor & Destructor Documentation

4.91.1.1 eu.tclouds.rbpel.util.DateHelper.DateHelper ( ) [protected]

### 4.91.2 Member Function Documentation

4.91.2.1 static String eu.tclouds.rbpel.util.DateHelper.getDefaultMillisString ( Date date ) [static]

4.91.2.2 static String eu.tclouds.rbpel.util.DateHelper.getDefaultString ( Date date ) [static]

### 4.91.3 Member Data Documentation

4.91.3.1 final String eu.tclouds.rbpel.util.DateHelper.FormatDefault = "%1\$tY-%1\$tm-%1\$td %1\$tH:%1\$tM:%1\$tS"  
[static]

4.91.3.2 final String eu.tclouds.rbpel.util.DateHelper.FormatDefaultMillis = "%1\$tY-%1\$tm-%1\$td %1\$tH:%1\$tM:%1\$tS.%1\$tL"  
[static]

4.91.3.3 final long eu.tclouds.rbpel.util.DateHelper.NanosMillis = 1000000L [static]

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

- src/eu/tclouds/rbpel/util/DateHelper.java

## 4.92 eu.tclouds.rbpel.util.ExceptionHelper Class Reference

### Static Public Member Functions

- static String [getStackTrace](#) (Throwable t)
- static String [getStackTrace](#) (Throwable t, String prefix)
- static void [NotExpectedState](#) (Throwable t)
- static IllegalStateException [createNotExpectedState](#) (Throwable t)

### 4.92.1 Member Function Documentation

4.92.1.1 static IllegalStateException eu.tclouds.rbpel.util.ExceptionHelper.createNotExpectedState ( Throwable t )  
[static]

4.92.1.2 static String eu.tclouds.rbpel.util.ExceptionHelper.getStackTrace ( Throwable t ) [static]

4.92.1.3 static String eu.tclouds.rbpel.util.ExceptionHelper.getStackTrace ( Throwable t, String prefix ) [static]

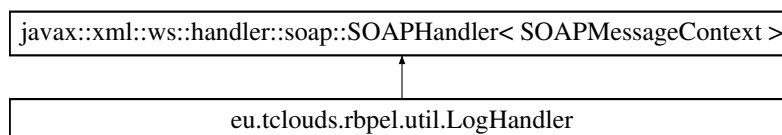
4.92.1.4 static void eu.tclouds.rbpel.util.ExceptionHelper.NotExpectedState ( Throwable t ) [static]

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

- src/eu/tclouds/rbpel/util/ExceptionHelper.java

## 4.93 eu.tclouds.rbpel.util.LogHandler Class Reference

Inheritance diagram for eu.tclouds.rbpel.util.LogHandler:



### Public Member Functions

- boolean [handleMessage](#) (SOAPMessageContext cntxt)
- boolean [handleFault](#) (SOAPMessageContext cntxt)
- void [close](#) (MessageContext cntxt)
- Set< QName > [getHeaders](#) ()

### 4.93.1 Member Function Documentation

4.93.1.1 void eu.tclouds.rbpel.util.LogHandler.close ( MessageContext cntxt )

4.93.1.2 Set<QName> eu.tclouds.rbpel.util.LogHandler.getHeaders ( )

4.93.1.3 boolean eu.tclouds.rbpel.util.LogHandler.handleFault ( SOAPMessageContext cntxt )

4.93.1.4 boolean eu.tclouds.rbpel.util.LogHandler.handleMessage ( SOAPMessageContext cntxt )

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



- src/eu/tclouds/rbpel/util/LogHandler.java

## 4.94 eu.tclouds.rbpel.util.MeasurementResult Class Reference

### Public Member Functions

- void [add](#) (long value)
- void [add](#) ([MeasurementResult](#) value)
- void [reset](#) ()
- boolean [hasData](#) ()
- int [getCount](#) ()
- long [getTotal](#) ()
- long [getMin](#) ()
- long [getMax](#) ()
- Double [getAvg](#) ()

### 4.94.1 Member Function Documentation

4.94.1.1 void eu.tclouds.rbpel.util.MeasurementResult.add ( long *value* )

4.94.1.2 void eu.tclouds.rbpel.util.MeasurementResult.add ( [MeasurementResult](#) *value* )

4.94.1.3 Double eu.tclouds.rbpel.util.MeasurementResult.getAvg ( )

4.94.1.4 int eu.tclouds.rbpel.util.MeasurementResult.getCount ( )

4.94.1.5 long eu.tclouds.rbpel.util.MeasurementResult.getMax ( )

4.94.1.6 long eu.tclouds.rbpel.util.MeasurementResult.getMin ( )

4.94.1.7 long eu.tclouds.rbpel.util.MeasurementResult.getTotal ( )

4.94.1.8 boolean eu.tclouds.rbpel.util.MeasurementResult.hasData ( )

4.94.1.9 void eu.tclouds.rbpel.util.MeasurementResult.reset ( )

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

- src/eu/tclouds/rbpel/util/MeasurementResult.java

## 4.95 eu.tclouds.rbpel.util.PerformanceCounter Class Reference

### Public Member Functions

- void [beginBlock](#) ()
- void [endBlock](#) ()
- long [readout](#) ([MeasurementResult](#) pcholder)

### 4.95.1 Member Function Documentation

4.95.1.1 void eu.tclouds.rbpel.util.PerformanceCounter.beginBlock ( )

4.95.1.2 void eu.tclouds.rbpel.util.PerformanceCounter.endBlock ( )

4.95.1.3 long eu.tclouds.rbpel.util.PerformanceCounter.readout ( MeasurementResult *pcholder* )

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

- src/eu/tclouds/rbpel/util/PerformanceCounter.java

## 4.96 eu.tclouds.rbpel.util.PerformanceLogger Class Reference

### Public Member Functions

- [PerformanceLogger](#) ()
- [PerformanceLogger](#) (String *name*)
- synchronized void [recordBlock](#) (long *bt*)
- synchronized long [beginBlock](#) (boolean *global*)
- synchronized void [endBlock](#) ()
- synchronized void [endBlock](#) (long *tb*)
- synchronized void [startLogger](#) ()
- synchronized void [stopLogger](#) ()
- synchronized void [startRecording](#) ()
- synchronized void [stopRecording](#) ()
- synchronized boolean [isRecording](#) ()
- synchronized void [reset](#) ()
- [MeasurementResult](#) [getTotal](#) ()
- [MeasurementResult](#) [getRecord](#) ()
- synchronized long [getRecordingTimeSpan](#) ()

### 4.96.1 Constructor & Destructor Documentation

4.96.1.1 eu.tclouds.rbpel.util.PerformanceLogger.PerformanceLogger ( )

4.96.1.2 eu.tclouds.rbpel.util.PerformanceLogger.PerformanceLogger ( String *name* )

### 4.96.2 Member Function Documentation

4.96.2.1 synchronized long eu.tclouds.rbpel.util.PerformanceLogger.beginBlock ( boolean *global* )

4.96.2.2 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.endBlock ( )

4.96.2.3 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.endBlock ( long *tb* )

4.96.2.4 MeasurementResult eu.tclouds.rbpel.util.PerformanceLogger.getRecord ( )

4.96.2.5 synchronized long eu.tclouds.rbpel.util.PerformanceLogger.getRecordingTimeSpan ( )

4.96.2.6 MeasurementResult eu.tclouds.rbpel.util.PerformanceLogger.getTotal ( )

4.96.2.7 synchronized boolean eu.tclouds.rbpel.util.PerformanceLogger.isRecording ( )

4.96.2.8 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.recordBlock ( long *bt* )

4.96.2.9 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.reset ( )

4.96.2.10 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.startLogger ( )

4.96.2.11 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.startRecording ( )

4.96.2.12 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.stopLogger ( )

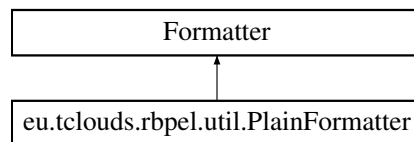
4.96.2.13 synchronized void eu.tclouds.rbpel.util.PerformanceLogger.stopRecording ( )

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

- src/eu/tclouds/rbpel/util/PerformanceLogger.java

## 4.97 eu.tclouds.rbpel.util.PlainFormatter Class Reference

Inheritance diagram for eu.tclouds.rbpel.util.PlainFormatter:



### Classes

- enum [Fields](#)

### Public Member Functions

- [PlainFormatter](#) ()
- [PlainFormatter](#) (String *name*)
- String [format](#) (java.util.logging.LogRecord *record*)
- String [getName](#) ()
- boolean [getFieldDisplay](#) ([Fields](#) *field*)
- void [setFieldDisplay](#) ([Fields](#) *field*, boolean *display*)
- String [getDateFormat](#) ()
- void [setDateFormat](#) (String *format*)

### 4.97.1 Constructor & Destructor Documentation

4.97.1.1 eu.tclouds.rbpel.util.PlainFormatter.PlainFormatter ( )

4.97.1.2 eu.tclouds.rbpel.util.PlainFormatter.PlainFormatter ( String *name* )

### 4.97.2 Member Function Documentation

4.97.2.1 String eu.tclouds.rbpel.util.PlainFormatter.format ( java.util.logging.LogRecord *record* )

4.97.2.2 String eu.tclouds.rbpel.util.PlainFormatter.getDateFormat ( )

4.97.2.3 boolean eu.tclouds.rbpel.util.PlainFormatter.getFieldDisplay ( Fields *field* )

4.97.2.4 String eu.tclouds.rbpel.util.PlainFormatter.getName ( )

4.97.2.5 void eu.tclouds.rbpel.util.PlainFormatter.setDateFormat ( String *format* )

4.97.2.6 void eu.tclouds.rbpel.util.PlainFormatter.setFieldDisplay ( Fields *field*, boolean *display* )

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

- src/eu/tclouds/rbpel/util/PlainFormatter.java

## 4.98 eu.tclouds.rbpel.util.PlainFormatter.Fields Enum Reference

### Public Attributes

- [Level](#)
- [Date](#)
- [Category](#)
- [LoggerName](#)
- [SourceClassName](#)
- [SourceMethodName](#)
- [ThreadName](#)
- [LogDatass](#)
- [Message](#)
- [Thrown](#)

### 4.98.1 Member Data Documentation

4.98.1.1 eu.tclouds.rbpel.util.PlainFormatter.Fields.Category

4.98.1.2 eu.tclouds.rbpel.util.PlainFormatter.Fields.Date

4.98.1.3 eu.tclouds.rbpel.util.PlainFormatter.Fields.Level

4.98.1.4 eu.tclouds.rbpel.util.PlainFormatter.Fields.LogDatass

4.98.1.5 eu.tclouds.rbpel.util.PlainFormatter.Fields.LoggerName

4.98.1.6 eu.tclouds.rbpel.util.PlainFormatter.Fields.Message

4.98.1.7 eu.tclouds.rbpel.util.PlainFormatter.Fields.SourceClassName

4.98.1.8 eu.tclouds.rbpel.util.PlainFormatter.Fields.SourceMethodName

4.98.1.9 eu.tclouds.rbpel.util.PlainFormatter.Fields.ThreadName

4.98.1.10 eu.tclouds.rbpel.util.PlainFormatter.Fields.Thrown

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

- src/eu/tclouds/rbpel/util/PlainFormatter.java

## 4.99 eu.tclouds.rbpel.util.Profiler Class Reference

### Public Member Functions

- [Profiler](#) (String name, int interval)
- long [start](#) ()
- synchronized long [start](#) (boolean global)
- synchronized long [stop](#) ()
- synchronized long [stop](#) (long ts)
- String [getName](#) ()
- synchronized void [reset](#) ()
- synchronized long [getCount](#) ()
- synchronized long [getLastInterval](#) ()

### 4.99.1 Constructor & Destructor Documentation

4.99.1.1 eu.tclouds.rbpel.util.Profiler.Profiler ( String *name*, int *interval* )

### 4.99.2 Member Function Documentation

4.99.2.1 synchronized long eu.tclouds.rbpel.util.Profiler.getCount ( )

4.99.2.2 synchronized long eu.tclouds.rbpel.util.Profiler.getLastInterval ( )

4.99.2.3 String eu.tclouds.rbpel.util.Profiler.getName ( )

4.99.2.4 synchronized void eu.tclouds.rbpel.util.Profiler.reset ( )

4.99.2.5 long eu.tclouds.rbpel.util.Profiler.start ( )

4.99.2.6 synchronized long eu.tclouds.rbpel.util.Profiler.start ( boolean *global* )

4.99.2.7 synchronized long eu.tclouds.rbpel.util.Profiler.stop ( )

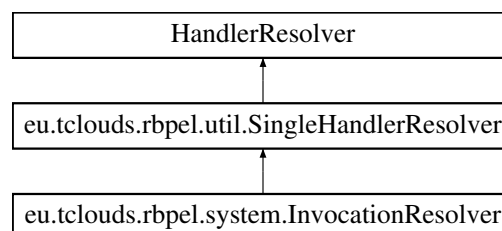
4.99.2.8 synchronized long eu.tclouds.rbpel.util.Profiler.stop ( long *ts* )

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

- src/eu/tclouds/rbpel/util/Profiler.java

## 4.100 eu.tclouds.rbpel.util.SingleHandlerResolver Class Reference

Inheritance diagram for eu.tclouds.rbpel.util.SingleHandlerResolver:



## Public Member Functions

- [SingleHandlerResolver](#) (Handler<?> handler)
- List< Handler > [getHandlerChain](#) (PortInfo pi)

### 4.100.1 Constructor & Destructor Documentation

4.100.1.1 eu.tclouds.rbpel.util.SingleHandlerResolver.SingleHandlerResolver ( Handler<?> *handler* )

### 4.100.2 Member Function Documentation

4.100.2.1 List<Handler> eu.tclouds.rbpel.util.SingleHandlerResolver.getHandlerChain ( PortInfo *pi* )

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

- src/eu/tclouds/rbpel/util/SingleHandlerResolver.java

## 4.101 eu.tclouds.rbpel.util.SOAPMessages Class Reference

### Static Public Member Functions

- static final byte[] [serialize](#) (final SOAPMessage msg)
- static final SOAPMessage [deserialize](#) (final byte[] data)

### Static Package Functions

- [\[static initializer\]](#)

### 4.101.1 Member Function Documentation

4.101.1.1 eu.tclouds.rbpel.util.SOAPMessages.[static initializer] ( ) [static], [package]

4.101.1.2 static final SOAPMessage eu.tclouds.rbpel.util.SOAPMessages.deserialize ( final byte[] *data* ) [static]

4.101.1.3 static final byte [] eu.tclouds.rbpel.util.SOAPMessages.serialize ( final SOAPMessage *msg* ) [static]

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

- src/eu/tclouds/rbpel/util/SOAPMessages.java

## 4.102 eu.tclouds.rbpel.util.StackTrace Class Reference

### Public Member Functions

- [StackTrace](#) ()
- [StackTrace](#) (Throwable t)
- [StackTrace](#) (StackTraceElement[] elements)
- void [print](#) (PrintWriter writer, String prefix)
- StackTraceElement [findFirstBefore](#) (String classname)
- int [findFirstIndexBefore](#) (String classname)
- StackTraceElement[] [getElements](#) ()

- String [toString](#) ()
- String [toString](#) (String prefix)

### Static Public Member Functions

- static StackTraceElement [getPreviousFrame](#) ()

## 4.102.1 Constructor & Destructor Documentation

4.102.1.1 eu.tclouds.rbpel.util.StackTrace.StackTrace ( )

4.102.1.2 eu.tclouds.rbpel.util.StackTrace.StackTrace ( Throwable t )

4.102.1.3 eu.tclouds.rbpel.util.StackTrace.StackTrace ( StackTraceElement[] *elements* )

## 4.102.2 Member Function Documentation

4.102.2.1 StackTraceElement eu.tclouds.rbpel.util.StackTrace.findFirstBefore ( String *classname* )

4.102.2.2 int eu.tclouds.rbpel.util.StackTrace.findFirstIndexBefore ( String *classname* )

4.102.2.3 StackTraceElement [] eu.tclouds.rbpel.util.StackTrace.getElements ( )

4.102.2.4 static StackTraceElement eu.tclouds.rbpel.util.StackTrace.getPreviousFrame ( ) [static]

4.102.2.5 void eu.tclouds.rbpel.util.StackTrace.print ( PrintWriter *writer*, String *prefix* )

4.102.2.6 String eu.tclouds.rbpel.util.StackTrace.toString ( )

4.102.2.7 String eu.tclouds.rbpel.util.StackTrace.toString ( String *prefix* )

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

- src/eu/tclouds/rbpel/util/StackTrace.java

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