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# Package

# org.ow2.bonita.facade

Nova Bonita Workflow APIs for handling workflow definition, deployment, execution and history. Nova Bonita is the name of new version of Bonita v4.

Nova technology is based on the Process Virtual Machine conceptual model for processes. The Process Virtual Machine defines a generic process engine enabling support for multiple process languages (such BPEL, XPDL).

Nova Bonita M3 is an extensible and embeddable workflow solution that can be easily deployed in both standard (JSE) and Enterprise (JEE) environments.

- Nova Bonita can be easily integrated in your application as a workflow library. In that case your application can directly reach the workflow APIs as POJOs.
- Nova Bonita can also be deployed in a JEE application server and so leverage it remotely thanks to the Workflow Session Beans APIs.

As a example of this, Nova Bonita provides a default JEE integration with a EJB3 lightweight container such [Easybeans](#) . You can easily deploy Nova Bonita in another JEE application server by just deploying the bonita.ear file in your favorite application server.

Nova Bonita APIs are divided into 5 different areas:

- [DefinitionAPI](#): to get definition workflow data for packages, processes, activities, role mappers, .....
- [RuntimeReadOnlyAPI](#): to get tasks (aka manual activities) for the authenticated user as well to get/list variables in a particular or a set of workflow instances.
- [RuntimeAPI](#): to manage process, instance and task life cycle operations as well as to set/updates variables.
- [QueryAPI](#): to get recorded/runtime informations for packages, processes, instances, activities, tasks (will add support for dynamic queries in the future).
- [DeployerAPI](#): to deploy workflow processes into the engine. XPDL files and advanced entities such hooks, mappers and performer assignments can be deployed individually or in one shot.

Nova Bonita Use Case 1: Bonita used as a java library inside your application

The java APIs can be accessed thru an API accessor object as described in the above example.

```
APIAccessorImpl accessor = new APIAccessorImpl();
RuntimeAPI runtimeAPI = accessor.getRuntimeAPI();
ReadOnlyAPIAccessorImpl accessorRO = new ReadOnlyAPIAccessorImpl();
RuntimeReadOnlyAPI runtimeReadOnlyAPI = accessorRO.getRuntimeAPI();
```

There are 2 different accessor interfaces available:

- [ReadOnlyAPIAccessor](#): to get access to DefinitionAPI, RuntimeReadOnlyAPI, QueryAPI interfaces.
- [APIAccessor](#): to get access to RuntimeAPI, DeployerAPI interfaces.

APIAccessorImpl and ReadOnlyAPIAccessorImpl classes implements those interfaces.

Instantiation of these classes gives access to the expected bonita API.

Nova Bonita Use Case 2: Bonita used as a server application

The session Bean APIs can be accessed by simply executing a lookup on the expected API interface. The jndi name is the name of the java interface.

```
RuntimeAPI runtimeAPI = (RuntimeAPI) initialContext.lookup("runtimeAPI");
RuntimeReadOnlyAPI runtimeReadOnlyAPI =
(RuntimeReadOnlyAPI) initialContext.lookup("RuntimeReadOnlyAPI");
```

Note:

- Authentication action has to be performed before getting the API interface.
- To package and deploy Bonita within the Easybeans EJB 3 container, see the documentation into the package (you could extrapolate those instructions to any other JEE application server).
- A complete example (Approval Workflow) illustrating both standard and enterprise deployments is provided into the delivered package (available under Nova\_Bonita\_Install\_Directory/examples/approvalWorkflow).

# org.ow2.bonita.facade Interface APIAccessor

All Superinterfaces:

[ReadOnlyAPIAccessor](#)

All Known Implementing Classes:

[APIAccessorImpl](#)

public interface **APIAccessor**  
extends [ReadOnlyAPIAccessor](#)

Helper class giving access to DeployerAPI and QueryAPI interfaces.

## Method Summary

<a href="#">DeployerAPI</a>	<a href="#">getDeployerAPI()</a> To get the DeployerAPI interface.
<a href="#">RuntimeAPI</a>	<a href="#">getRuntimeAPI()</a> To get the RuntimeAPI interface.

Methods inherited from interface [org.ow2.bonita.facade.ReadOnlyAPIAccessor](#)

[getDefinitionAPI](#), [getQueryAPI](#), [getRuntimeAPI](#)

## Methods

### getRuntimeAPI

public [RuntimeAPI](#) **getRuntimeAPI()**

To get the RuntimeAPI interface.

**Returns:**

the interface RuntimeAPI.

### getDeployerAPI

public [DeployerAPI](#) **getDeployerAPI()**

To get the DeployerAPI interface.

**Returns:**

the interface DeployerAPI.

## org.ow2.bonita.facade Class APIInterceptor

java.lang.Object

└─org.ow2.bonita.facade.APIInterceptor

### All Implemented Interfaces:

java.io.Serializable, InvocationHandler

public class **APIInterceptor**  
 extends Object  
 implements InvocationHandler, java.io.Serializable

## Nested Class Summary

class	<a href="#">APIInterceptor.Context</a> APIInterceptor.Context
-------	--

## Field Summary

private	<a href="#">api</a>
private static final	<a href="#">CONTEXT</a>
protected static final	<a href="#">LOG</a>

## Constructor Summary

public	<a href="#">APIInterceptor</a> (Object api)
--------	---

## Method Summary

Object	<a href="#">invoke</a> (Object proxy, Method method, Object[] args)
void	<a href="#">setSecurityContext</a> ()

## Fields

### LOG

protected static final java.util.logging.Logger **LOG**

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## CONTEXT

```
private static final org.ow2.bonita.facade.APIInterceptor.Context CONTEXT
```

---

## api

```
private java.lang.Object api
```

## Constructors

### APIInterceptor

```
public APIInterceptor(Object api)
```

## Methods

### invoke

```
public Object invoke(Object proxy,  
                     Method method,  
                     Object[] args)  
    throws org.ow2.bonita.util.BonitaException
```

---

### setSecurityContext

```
private void setSecurityContext()
```

## org.ow2.bonita.facade Class APIInterceptor.Context

```

java.lang.Object
  |
  +- java.lang.Enum
        |
        +- org.ow2.bonita.facade.APIInterceptor.Context
  
```

### All Implemented Interfaces:

java.io.Serializable, Comparable

```

public static final class APIInterceptor.Context
extends Enum
  
```

### Field Summary

public static final	<a href="#">EJB</a>
public static final	<a href="#">Standard</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">APIInterceptor.Context()</a>
---------	--

### Method Summary

static <a href="#">APIInterceptor.Context</a> t	<a href="#">valueOf</a> (String name)
static <a href="#">APIInterceptor.Context</a> t[]	<a href="#">values</a> ()

### Fields

#### Standard

```
public static final org.ow2.bonita.facade.APIInterceptor.Context Standard
```

#### EJB

```
public static final org.ow2.bonita.facade.APIInterceptor.Context EJB
```

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## Constructors

### **APIInterceptor.Context**

```
private APIInterceptor.Context()
```

## Methods

### **values**

```
public final static APIInterceptor.Context\[\] values()
```

---

### **valueOf**

```
public static APIInterceptor.Context valueOf(String name)
```

## org.ow2.bonita.facade Interface DefinitionAPI

All Known Implementing Classes:  
[DefinitionAPIImpl](#)

public interface **DefinitionAPI**  
 extends

Getters on the workflow definition data for: packages, processes, activities, participants, dataFields, transitions hooks, mappers, performer assignments.

This interface could be considered as complementary to the QueryAPI interface. For this interface the returned data represents static part of managed workflow elements.

Workflow data can be retrieved with both entities ids or names.

### Method Summary

<a href="#">PackageDef</a>	<a href="#">getDeployedPackage</a> (String packageId)
Set	<a href="#">getDeployedPackages</a> ( )
<a href="#">ProcessDef</a>	<a href="#">getDeployedProcess</a> (String processId)
Set	<a href="#">getDeployedProcesses</a> ( )
<a href="#">PackageDef</a>	<a href="#">getLastPackage</a> (String packageId) Return the last deployed package for the specified package id.
<a href="#">ProcessDef</a>	<a href="#">getLastProcess</a> (String processId) Return the last deployed process for the specified process id.
<a href="#">PackageDef</a>	<a href="#">getPackage</a> (String packageId, String deploymentId) Returns the package definition for the specified package and deployment.
String	<a href="#">getPackageId</a> (String deploymentId, String packageName) Returns the package id for the specified package name and deployment id.
<a href="#">ProcessDef</a>	<a href="#">getPackageProcess</a> (String packageId, String deploymentId, String processId) Returns the process information for the specified package and deployment and process.
Set	<a href="#">getPackageProcesses</a> (String packageId, String deploymentId) Returns the set of definition information of all processes within the specified deployed package and the specified deployment.
Set	<a href="#">getPackages</a> ( ) Returns the set of definition informations for all deployed packages.
Set	<a href="#">getPackages</a> (String packageId) Returns the set of definition informations for all deployed packages for the specified package.
<a href="#">ProcessDef</a>	<a href="#">getProcess</a> (String processId, String deploymentId) Returns the process definition for the specified process id and deployment id.

Set	<a href="#"><code>getProcessActivities</code></a> (String processId, String deploymentId) Returns the set of definition for process activities of the specified process and deployment.
<a href="#"><code>ActivityDef</code></a>	<a href="#"><code>getProcessActivity</code></a> (String processId, String deploymentId, String activityId) Returns the definition for process activity of the specified process and deployment.
String	<a href="#"><code>getProcessActivityId</code></a> (String processId, String deploymentId, String activityName) Returns the activity id for the specified process id and deployment id and activity id.
Set	<a href="#"><code>getProcesses</code></a> ( ) Returns the set of definition information of all deployed processes.
Set	<a href="#"><code>getProcesses</code></a> (String processId) Returns the set of definition informations for the process with the specified id.
String	<a href="#"><code>getProcessId</code></a> (String deploymentId, String processName) Returns the process id for the specified process name and deployment id.
<a href="#"><code>ParticipantDef</code></a>	<a href="#"><code>getProcessParticipant</code></a> (String processId, String deploymentId, String participantId) Returns the participant definition for the specified process and deployment.
String	<a href="#"><code>getProcessParticipantId</code></a> (String processId, String deploymentId, String participantName) Returns the participant id for the specified process id and deployment id and participant name.
Set	<a href="#"><code>getProcessParticipants</code></a> (String processId, String deploymentId) Returns the set of participant definitions for the specified process and deployment.

## Methods

### **getPackages**

```
public Set getPackages( )
```

Returns the set of definition informations for all deployed packages.

**Returns:**

a set of PackageDef in unspecified order that have been deployed.

**Throws:**

BonitaInternalException - if an exception occurs.

### **getPackages**

```
public Set getPackages(String packageId)
```

Returns the set of definition informations for all deployed packages for the specified package.

**Parameters:**

packageId - the package id.

**Returns:**

a set of PackageDef in unspecified order that have been deployed for the package with specified packageId.



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**Throws:**

`BonitaInternalException` - if an exception occurs.

---

## getPackage

```
public PackageDef getPackage(String packageId,  
                             String deploymentId)
```

Returns the package definition for the specified package and deployment.

**Parameters:**

`packageId` - the package id.  
`deploymentId` - the deployment id.

**Returns:**

a `PackageDef` interface.

**Throws:**

`BonitaInternalException` - if an exception occurs.

---

## getDeployedPackages

```
public Set getDeployedPackages()
```

---

## getDeployedPackage

```
public PackageDef getDeployedPackage(String packageId)
```

---

## getPackageProcesses

```
public Set getPackageProcesses(String packageId,  
                                String deploymentId)
```

Returns the set of definition information of all processes within the specified deployed package and the specified deployment.

**Parameters:**

`packageId` - the package id.  
`deploymentId` - the deployment id.

**Returns:**

set of `ProcessDef` of all the processes within the specified deployed package and the specified deployment.

**Throws:**

`BonitaInternalException` - if an exception occurs.

---

## getPackageProcess

```
public ProcessDef getPackageProcess(String packageId,  
                                     String deploymentId,  
                                     String processId)
```

Returns the process information for the specified package and deployment and process.

**Parameters:**

(continued from last page)

packageId - the package id.  
deploymentId - the deployment id.  
processId - the process id.

**Returns:**

the ProcessDef interface for the specified package and deployment and process.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getProcesses

```
public Set getProcesses()
```

Returns the set of definition information of all deployed processes.

**Returns:**

set of ProcessDef of all deployed processes.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getProcesses

```
public Set getProcesses(String processId)
```

Returns the set of definition informations for the process with the specified id. These process informations are searched into the current recorded informations and into the archived informations. A process with a given id could have been deployed and undeployed several times.

**Returns:**

set of ProcessDef of the specified process id.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getProcess

```
public ProcessDef getProcess(String processId,  
                             String deploymentId)
```

Returns the process definition for the specified process id and deployment id.

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.

**Returns:**

the ProcessDef interface for the specified process id and deployment id.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getDeployedProcesses

```
public Set getDeployedProcesses()
```

## getDeployedProcess

```
public ProcessDef getDeployedProcess(String processId)
```

---

## getProcessParticipants

```
public Set getProcessParticipants(String processId,  
    String deploymentId)
```

Returns the set of participant definitions for the specified process and deployment.

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.

**Returns:**

the set of ParticipantDef for the specified process id and deployment id.

---

## getProcessParticipant

```
public ParticipantDef getProcessParticipant(String processId,  
    String deploymentId,  
    String participantId)
```

Returns the participant definition for the specified process and deployment.

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.  
participantId - the participant id.

**Returns:**

the ParticipantDef for the specified process id and deployment id and participant id.

---

## getProcessActivities

```
public Set getProcessActivities(String processId,  
    String deploymentId)
```

Returns the set of definition for process activities of the specified process and deployment.

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.

**Returns:**

the set of ActivityDef for the specified process id and deployment id.

---

## getProcessActivity

```
public ActivityDef getProcessActivity(String processId,  
    String deploymentId,  
    String activityId)
```

Returns the definition for process activity of the specified process and deployment.

---

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**Parameters:**

processId - the process id.  
deploymentId - the deployment id.  
activityId - the activity id.

**Returns:**

the ActivityDef for the specified process id and deployment id and activity id.

---

**getPackageId**

```
public String getPackageId(String deploymentId,  
                           String packageName)
```

Returns the package id for the specified package name and deployment id.

**Parameters:**

deploymentId - the deployment id.  
packageName - the package name.

**Returns:**

the package id for the specified package name and deployment id.

---

**getProcessId**

```
public String getProcessId(String deploymentId,  
                           String processName)
```

Returns the process id for the specified process name and deployment id.

**Parameters:**

deploymentId - the deployment id.  
processName - the process name.

**Returns:**

the process id for the specified process name and deployment id.

---

**getProcessActivityId**

```
public String getProcessActivityId(String processId,  
                                    String deploymentId,  
                                    String activityName)
```

Returns the activity id for the specified process id and deployment id and activity id.

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.  
activityName - the activity name.

**Returns:**

the activity id for the specified process id and deployment id and activity id.

---

**getProcessParticipantId**

```
public String getProcessParticipantId(String processId,  
                                       String deploymentId,  
                                       String participantName)
```

Returns the participant id for the specified process id and deployment id and participant name.

---

(continued from last page)

**Parameters:**

processId - the process id.  
deploymentId - the deployment id.  
participantName - the participant name.

**Returns:**

the participant id for the specified process id and deployment id and participant name.

---

## getLastPackage

```
public PackageDef getLastPackage(String packageId)
```

Return the last deployed package for the specified package id.

**Parameters:**

packageId - the package id.

**Returns:**

the last deployed package for the specified package id.

---

## getLastProcess

```
public ProcessDef getLastProcess(String processId)
```

Return the last deployed process for the specified process id.

**Parameters:**

processId - the process id.

**Returns:**

the last deployed process for the specified process id.

# org.ow2.bonita.facade Interface DeployerAPI

All Known Implementing Classes:  
[DeployerAPIImpl](#)

public interface **DeployerAPI**  
 extends

Workflow process deployment operations. Individual or grouped deployment of objects relating to the process definition: xpdI file, java classes for hooks, mappers, performer assignments, ....

## Method Summary

org.ow2.bonita.deploy ment.PackageKey	<a href="#">deploy</a> (org.ow2.bonita.deployment.Deployment deployment) To deploy the package giving the deployment object.
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (byte[] barFile) To deploy the package giving the bytes table of the bar file.
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.io.File barFile) To deploy the package giving the file of the bar file.
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.io.InputStream barFileInputStream) To deploy the package giving the input stream of the bar file.
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.net.URL barFileURL) To deploy the package giving the URL of the bar file.
void	<a href="#">deployClass</a> (String className, byte[] clazz) To deploy a class giving its bytes table.
void	<a href="#">deployClasses</a> (Map classes) To deploy several classes giving a map of classes.
void	<a href="#">deployClassesInJar</a> (byte[] classesArchive) To deploy several classes giving an archive containing the classes.
void	<a href="#">removeClass</a> (String className) To remove a class giving the class name.
void	<a href="#">removeClasses</a> (String[] className) To remove classes giving the class names.
void	<a href="#">undeploy</a> (String packageId) To undeploy a package.

## Methods

### deploy

```
public org.ow2.bonita.deployment.PackageKey
deploy(org.ow2.bonita.deployment.Deployment deployment)
```

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To deploy the package giving the deployment object.

**Parameters:**

deployment - the deployment object that should contain the xpdI file and the map of required.

**Returns:**

PackageKey the package key.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(java.net.URL barFileURL)
    throws DeploymentException
```

To deploy the package giving the URL of the bar file.

**Parameters:**

barFileURL - the URL of the bar file.

**Returns:**

PackageKey the package key.

**Throws:**

[DeploymentException](#) - if an IO exception is thrown.

BonitaInternalException - if an other exception occurs.

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(java.io.File barFile)
    throws DeploymentException
```

To deploy the package giving the file of the bar file.

**Parameters:**

barFile - the file of the barfile.

**Returns:**

PackageKey the package key.

**Throws:**

[DeploymentException](#) - if the archive file is not found.

BonitaInternalException - if an other exception occurs.

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(byte[] barFile)
    throws DeploymentException
```

To deploy the package giving the bytes table of the bar file.

**Parameters:**

barFile - the bytes table of the bar file.

**Returns:**

PackageKey the package key.

**Throws:**

(continued from last page)

[DeploymentException](#) - if either the xpdL file does not exist or is not unique or a malformed URL has occurred.  
[BonitaInternalException](#) - if an other exception occurs.

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar( java.io.InputStream  
barFileInputStream)  
throws DeploymentException
```

To deploy the package giving the input stream of the bar file.

### Parameters:

barFileInputStream - the input stream of the bar file.

### Returns:

PackageKey the package key.

### Throws:

[DeploymentException](#) - if an IO exception is thrown.

[BonitaInternalException](#) - if an other exception occurs.

---

## deployClass

```
public void deployClass(String className,  
byte[] clazz)  
throws DeploymentException
```

To deploy a class giving its bytes table.

### Parameters:

className - the name of the class.

clazz - the bytes table of the class.

### Throws:

[DeploymentException](#) - if there is already a deployed class with this name.

[BonitaInternalException](#) - if an other exception occurs.

---

## deployClasses

```
public void deployClasses(Map classes)  
throws DeploymentException
```

To deploy several classes giving a map of classes.

### Parameters:

classes - a map of key-value where key is the name of the class and value is the bytes table.

### Throws:

[DeploymentException](#) - if there is already a deployed class with the name

[BonitaInternalException](#) - if an other exception occurs.

---

## deployClassesInJar

```
public void deployClassesInJar(byte[] classesArchive)  
throws DeploymentException
```

To deploy several classes giving an archive containing the classes.

### Parameters:

classesArchive - the archives containing the classes.



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**Throws:**

[DeploymentException](#) - if there is already a deployed class with this name or there's an IOException occurs.  
[BonitaInternalException](#) - if an other exception occurs.

---

## undeploy

```
public void undeploy(String packageId)
```

To undeploy a package.

**Parameters:**

packageId - the package id.

**Throws:**

[BonitaInternalException](#) - if an exception occurs.

---

## removeClass

```
public void removeClass(String className)  
throws DeploymentException
```

To remove a class giving the class name.

**Parameters:**

className - the name of the class.

**Throws:**

[DeploymentException](#) - if there's no class defined in global class repository with this name or a package is still using global class.  
[BonitaInternalException](#) - if an other exception occurs.

---

## removeClasses

```
public void removeClasses(String[] className)  
throws DeploymentException
```

To remove classes giving the class names.

**Parameters:**

className - the class names.

**Throws:**

[DeploymentException](#) - if there's no class defined in global class repository with this name or a package is still using global class.  
[BonitaInternalException](#) - if an other exception occurs.

## org.ow2.bonita.facade Interface QueryAPI

All Known Implementing Classes:

[QueryAPIImpl](#)

public interface **QueryAPI**  
extends

Getters on workflow recorded data. Operations in this API applies to main entities managed by Nova Bonita such as: packages, processes, process instances, activities, tasks. Returned records are issued from recorded runtime informations (both runtime and archived workflow instances).

### Method Summary

Map	<a href="#">getActivities</a> (String instanceId) Returns all records of activity for the given instance id.
org.ow2.bonita.services.record.ActivityRecord	<a href="#">getActivity</a> (String instanceId, String activityId) Returns the record of the activity with the given instance id and activity id.
org.ow2.bonita.services.record.InstanceRecord	<a href="#">getInstance</a> (String instanceId) Returns the record of the instance with the given id.
Map	<a href="#">getInstances</a> (String processId) Returns all records of instance for the given process id.
org.ow2.bonita.services.record.TaskRecord	<a href="#">getTask</a> (String taskId) Returns the record of the task with the given task id.
Map	<a href="#">getTasks</a> (String instanceId) Returns all records of task for the given instance id.

### Methods

#### getInstance

```
public org.ow2.bonita.services.record.InstanceRecord getInstance(String instanceId)
```

Returns the record of the instance with the given id.

**Parameters:**

instanceId - the instance id.

**Returns:**

the record of the instance with the given id.

**Throws:**

BonitaInternalException - if an exception occurs.

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## getInstances

```
public Map getInstances(String processId)
```

Returns all records of instance for the given process id.

**Parameters:**

processId - the process id.

**Returns:**

the map containing all instance records. Key is the id of the instance. Value is the record for the instance.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getActivity

```
public org.ow2.bonita.services.record.ActivityRecord getActivity(String instanceId,  
String activityId)
```

Returns the record of the activity with the given instance id and activity id.

**Parameters:**

instanceId - the instance id.

activityId - the activity id.

**Returns:**

the record activity with the given instance id and activity id.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getActivities

```
public Map getActivities(String instanceId)
```

Returns all records of activity for the given instance id.

**Parameters:**

instanceId - the instance id.

**Returns:**

the map containing activity records. Key is the id of the activity. Value is the record for the activity.

**Throws:**

BonitaInternalException - if an exception occurs.

---

## getTask

```
public org.ow2.bonita.services.record.TaskRecord getTask(String taskId)
```

Returns the record of the task with the given task id.

**Parameters:**

taskId - the task id.

**Returns:**

the record of the task with the given task id.

---

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**Throws:**

`BonitaInternalException` - if an exception occurs.

---

## getTasks

```
public Map getTasks(String instanceId)
```

Returns all records of task for the given instance id.

**Parameters:**

`instanceId` - the instance id.

**Returns:**

the map containing all task records. Key is the id of the task. Value is the record for the task.

**Throws:**

`BonitaInternalException` - if an exception occurs.

## org.ow2.bonita.facade Interface ReadOnlyAPIAccessor

All Subinterfaces:

[APIAccessor](#)

All Known Implementing Classes:

[ReadOnlyAPIAccessorImpl](#)

public interface **ReadOnlyAPIAccessor**  
extends

Helper class giving access to DeployerAPI, QueryAPI and getRuntimeReadOnlyAPI interfaces.

### Method Summary

<a href="#">DefinitionAPI</a>	<a href="#">getDefinitionAPI()</a> To get the DefinitionAPI interface.
<a href="#">QueryAPI</a>	<a href="#">getQueryAPI()</a> To get the QueryAPI interface.
<a href="#">RuntimeReadOnlyAPI</a>	<a href="#">getRuntimeAPI()</a> To get the RuntimeReadOnlyAPI interface.

### Methods

#### getRuntimeAPI

public [RuntimeReadOnlyAPI](#) **getRuntimeAPI()**

To get the RuntimeReadOnlyAPI interface.

**Returns:**

the interface RuntimeReadOnlyAPI.

#### getQueryAPI

public [QueryAPI](#) **getQueryAPI()**

To get the QueryAPI interface.

**Returns:**

the interface QueryAPI.

#### getDefinitionAPI

public [DefinitionAPI](#) **getDefinitionAPI()**

To get the DefinitionAPI interface.

**Returns:**

the interface DefinitionAPI.

# org.ow2.bonita.facade Interface RuntimeAPI

All Superinterfaces:

[RuntimeReadOnlyAPI](#)

All Known Implementing Classes:

[RuntimeAPIImpl](#)

public interface **RuntimeAPI**  
extends [RuntimeReadOnlyAPI](#)

Main API responsible of workflow state change operations. Those operations concerns tasks, process instances and variables. Default states for tasks (aka manual activities), processes instances, activities and processes are:

- States for task: INITIAL, READY, EXECUTING, SUSPENDED, FINISHED
- States for activities: INITIAL, READY, EXECUTING, FINISHED, DEAD
- States for process instance: INITIAL, STARTED, FINISHED
- States for process: UNDEPLOYED, DEPLOYED

## Method Summary

void	<a href="#">deleteAllInstances</a> (String processId) This method is only dedicated for bonita unit tests!
void	<a href="#">deleteInstance</a> (String instanceId) This method is only dedicated for bonita unit tests!
void	<a href="#">finishTask</a> (String taskId) Finish the task.
String	<a href="#">instantiateProcess</a> (String processId) Create an instance of the specified process and start the execution.
String	<a href="#">instantiateProcess</a> (String processId, Map variables) create an instance of the specified process with the added variable map and start the execution.
void	<a href="#">resumeTask</a> (String taskId) Resume the task if the task has SUSPENDED state.
void	<a href="#">setVariable</a> (String instanceId, String variableId, Object variableValue) Search for variable with id variableId into instance with id instanceId and set the given value to the found variable.
void	<a href="#">setVariable</a> (String instanceId, String activityId, String variableId, Object variableValue) Search for variable with id variableId into instance with id instanceId and within the activity with id activityId and set the given value to the found variable.
void	<a href="#">startTask</a> (String taskId) start the task.
void	<a href="#">suspendTask</a> (String taskId) Suspend the task if the task has EXECUTING state.

---

Methods inherited from interface [org.ow2.bonita.facade.RuntimeReadOnlyAPI](#)

[getTaskList](#), [getTaskList](#), [getVariable](#), [getVariable](#), [getVariableDefinitions](#),  
[getVariableDefinitions](#), [getVariables](#), [getVariables](#)

---

## Methods

### instantiateProcess

```
public String instantiateProcess(String processId)
    throws ProcessNotFoundException
```

Create an instance of the specified process and start the execution. returned instance has STARTED state. If the first activity has StartMode=manual then a task has been created. If the first activity has StartMode=automatic then the automatic behavior of the activity has been started.

**Parameters:**

processId - the process id.

**Returns:**

the id of the created instance.

**Throws:**

[ProcessNotFoundException](#) - if the process has not been found.  
[BonitaInternalException](#) - if an exception occurs.

---

### instantiateProcess

```
public String instantiateProcess(String processId,
    Map variables)
    throws ProcessNotFoundException
```

create an instance of the specified process with the added variable map and start the execution. returned instance has STARTED state. If the first activity has StartMode=manual then a task has been created. If the first activity has StartMode=automatic then the automatic behavior of the activity has been started.

**Parameters:**

processId - the process id.  
 variables - variables added to the variables already set within the process definition.

**Returns:**

the id of the created instance.

**Throws:**

[ProcessNotFoundException](#) - if the process has not been found.  
[BonitaInternalException](#) - if an exception occurs.

---

### startTask

```
public void startTask(String taskId)
    throws TaskNotFoundException,  

IllegalTaskStateException
```

start the task. If successful, this operation changes task state from READY to EXECUTING.

**Parameters:**

taskId - the task id.

---

(continued from last page)

**Throws:**

[TaskNotFoundException](#) - if the task has not been found.  
[IllegalTaskStateException](#) - if the state of the task has not READY state.  
[BonitaInternalException](#) - if an exception occurs.

---

## finishTask

```
public void finishTask(String taskId)  
    throws TaskNotFoundException,  
           IllegalTaskStateException
```

Finish the task. If successful, this operation changes task state from EXECUTING to FINISHED.

**Parameters:**

taskId - the task id.

**Throws:**

[TaskNotFoundException](#) - if the task has not been found.  
[IllegalTaskStateException](#) - if the state of the task has not EXECUTING state.  
[BonitaInternalException](#) - if an exception occurs.

---

## suspendTask

```
public void suspendTask(String taskId)  
    throws TaskNotFoundException,  
           IllegalTaskStateException,  
           UnauthorizedUserException
```

Suspend the task if the task has EXECUTING state.  
If successful, this operation changes task state from EXECUTING to SUSPENDED.

**Parameters:**

taskId - the task id.

**Throws:**

[TaskNotFoundException](#) - if the task has not been found.  
[IllegalTaskStateException](#) - if the state of the task has not either READY or EXECUTING state.  
[BonitaInternalException](#) - if an exception occurs.

---

## resumeTask

```
public void resumeTask(String taskId)  
    throws TaskNotFoundException,  
           IllegalTaskStateException,  
           UnauthorizedUserException
```

Resume the task if the task has SUSPENDED state. If successful, this operation changes task state from SUSPENDED to EXECUTING.

**Parameters:**

taskId - the task id.

**Throws:**

[TaskNotFoundException](#) - if the task has not been found.  
[IllegalTaskStateException](#) - if the state of the task has not SUSPENDED state.  
[UnauthorizedUserException](#) - if the user is not the user assigned to the task.  
[UnauthorizedUserException](#) - if task has not been assigned and the user is not in the list of candidates for the task.  
[BonitaInternalException](#) - if an exception occurs.



## setVariable

```
public void setVariable(String instanceId,
                        String variableId,
                        Object variableValue)
    throws InstanceNotFoundException
```

Search for variable with id variableId into instance with id instanceId and set the given value to the found variable.

- If the XPDL dataField has String type then use instance of java.lang.String class for variableValue.
- If the XPDL dataField has EnumerationType type then use instance of org.ow2.bonita.runtime.var.Enumeration class for variableValue.

The field selectedValue can contain only one value from the possibleValues list field.

### Parameters:

instanceId - the instance id.  
variableId - the variable id.  
variableValue - the variable value.

### Throws:

[InstanceNotFoundException](#) - if the instance has not been found.  
[BonitaInternalException](#) - if an exception occurs.

## setVariable

```
public void setVariable(String instanceId,
                        String activityId,
                        String variableId,
                        Object variableValue)
    throws InstanceNotFoundException,
           ActivityNotFoundException
```

Search for variable with id variableId into instance with id instanceId and within the activity with id activityId and set the given value to the found variable.

- If the XPDL dataField has String type then use instance of java.lang.String class for variableValue.
- If the XPDL dataField has EnumerationType type then use instance of org.ow2.bonita.runtime.var.Enumeration class for variableValue.

The field selectedValue can contain only one value from the possibleValues list field.

### Parameters:

instanceId - the instance id.  
activityId - the activity id.  
variableId - the variable id.  
variableValue - the variable value.

### Throws:

[InstanceNotFoundException](#) - if the instance has not been found.  
[ActivityNotFoundException](#) - if the activity has not been found.  
[BonitaInternalException](#) - if an exception occurs.

## deleteInstance

```
public void deleteInstance(String instanceId)
```

This method is only dedicated for bonita unit tests!

Delete existing tasks from the instance with id instanceId from the task repository. Then delete the instance with id instanceId from the instance repository. Recorded data are currently not removed from the history or/and the history.

(continued from last page)

**Parameters:**

`instanceId` - the instance id.

**Throws:**

`BonitaInternalException` - if an exception occurs.

---

## **deleteAllInstances**

```
public void deleteAllInstances(String processId)
```

This method is only dedicated for bonita unit tests!

Delete all instances created for the process with id `processId` from the instance repository. Recorded data are currently not removed from the history or/and the history.

**Parameters:**

`processId` - the process id.

**Throws:**

`BonitaInternalException` - if an exception occurs.

# org.ow2.bonita.facade Interface RuntimeReadOnlyAPI

All Subinterfaces:  
[RuntimeAPI](#)

All Known Implementing Classes:  
[RuntimeReadOnlyAPIImpl](#)

public interface **RuntimeReadOnlyAPI**  
extends

Getters for tasks and variables. User's Todo and Work lists operations.

## Method Summary

Collection	<a href="#">getTaskList</a> (org.ow2.bonita.util.Constants.TaskState taskState) Obtain the user tasks with state either READY or EXECUTING or SUSPENDED for the given instance.
Collection	<a href="#">getTaskList</a> (String instanceId, org.ow2.bonita.util.Constants.TaskState taskState) Obtain the user tasks with state either READY or EXECUTING or SUSPENDED for the given instance.
Object	<a href="#">getVariable</a> (String instanceId, String variableId) Obtain a process variable for the given instance and variable .
Object	<a href="#">getVariable</a> (String instanceId, String activityId, String variableId) Obtain a variable for the given activity and instance.
Map	<a href="#">getVariableDefinitions</a> (String processId) Obtain the variable definitions of the process for the given process.
Map	<a href="#">getVariableDefinitions</a> (String processId, String activityId) Obtain variable definitions (including global process and local activity variables)for the given process and activity.
Map	<a href="#">getVariables</a> (String instanceId) Obtain the process variables for the given instance.
Map	<a href="#">getVariables</a> (String instanceId, String activityId) Obtain the activity variables (including global process and local activity variables) for the given instance and activity.

## Methods

### getTaskList

```
public Collection getTaskList(String instanceId,
    org.ow2.bonita.util.Constants.TaskState taskState)
    throws InstanceNotFoundException
```

Obtain the user tasks with state either READY or EXECUTING or SUSPENDED for the given instance. if the state is READY the task could have been assigned or not. if the state is EXECUTING or SUSPENDED the task has been assigned.

(continued from last page)

**Parameters:**

instanceId - the instance id.  
taskState - the state of the task.

**Returns:**

a collection of task records. If no tasks are found, an empty collection is returned.

**Throws:**

[InstanceNotFoundException](#) - if no instance record is found with the given instance id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getTaskList

```
public Collection getTaskList(org.ow2.bonita.util.Constants.TaskState taskState)
```

Obtain the user tasks with state either READY or EXECUTING or SUSPENDED for the given instance. if the state is READY the task could have been assigned or not. if the state is EXECUTING or SUSPENDED the task has been assigned.

**Parameters:**

taskState - the state of the task.

**Returns:**

a collection of task records. If no tasks are found, an empty collection is returned.

**Throws:**

[BonitaInternalException](#) - if an other exception occurs.

---

## getVariable

```
public Object getVariable(String instanceId,  
    String activityId,  
    String variableId)  
throws InstanceNotFoundException,  
    ActivityNotFoundException,  
    VariableNotFoundException
```

Obtain a variable for the given activity and instance. This variable could be local to the activity or global to the process.

**Parameters:**

instanceId - the instance id.  
activityId - the activity id.  
variableId - the variable id.

**Returns:**

the variable object.

**Throws:**

[InstanceNotFoundException](#) - if no instance record is found with the given instance id.  
[ActivityNotFoundException](#) - if no activity record is found with the given activity id.  
[VariableNotFoundException](#) - if no variable is found with the given id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getVariables

```
public Map getVariables(String instanceId,  
    String activityId)  
throws ActivityNotFoundException
```

Obtain the activity variables (including global process and local activity variables) for the given instance and activity.

(continued from last page)

**Parameters:**

instanceId - the instance id.  
activityId - the activity id.

**Returns:**

the map of activity variables where key is the variable id and value is the variable object.

**Throws:**

[ActivityNotFoundException](#) - if no activity record is found with the given activity id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getVariable

```
public Object getVariable(String instanceId,  
    String variableId)  
    throws InstanceNotFoundException,  
        VariableNotFoundException
```

Obtain a process variable for the given instance and variable .

**Parameters:**

instanceId - the instance id.  
variableId - the variable id.

**Returns:**

the variable object.

**Throws:**

[InstanceNotFoundException](#) - if no instance record is found with the given instance id.  
[VariableNotFoundException](#) - if no variable is found with the given id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getVariables

```
public Map getVariables(String instanceId)  
    throws InstanceNotFoundException
```

Obtain the process variables for the given instance.

**Parameters:**

instanceId - the instance id.

**Returns:**

the map of process variables where key is the variable id and value is the variable object.

**Throws:**

[InstanceNotFoundException](#) - if no instance record is found with the given instance id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getVariableDefinitions

```
public Map getVariableDefinitions(String processId,  
    String activityId)  
    throws ProcessNotFoundException,  
        ActivityNotFoundException
```

Obtain variable definitions (including global process and local activity variables)for the given process and activity.

**Parameters:**

(continued from last page)

processId - the process Id.  
activityId - the activity id.

**Returns:**

the map of variable definitions where key is the variable id and value is the variable object.

**Throws:**

[ProcessNotFoundException](#) - if no process record is found with the given process id.  
[ActivityNotFoundException](#) - if no activity record is found with the given activity id.  
[BonitaInternalException](#) - if an other exception occurs.

---

## getVariableDefinitions

```
public Map getVariableDefinitions(String processId)  
    throws ProcessNotFoundException
```

Obtain the variable definitions of the process for the given process.

**Parameters:**

processId - the process Id.

**Returns:**

the map of variable definitions where key is the variable id and value is the variable object.

**Throws:**

[ProcessNotFoundException](#) - if no process record is found with the given process id.  
[BonitaInternalException](#) - if an other exception occurs.

---

**Package**

**org.ow2.bonita.facade.def**

# org.ow2.bonita.facade.def

## Class DefImpl

java.lang.Object

└─org.ow2.bonita.facade.def.DefImpl

Direct Known Subclasses:

[ActivityDefImpl](#), [ActivitySetDefImpl](#), [ApplicationDefImpl](#), [DataFieldDefImpl](#), [PackageDefImpl](#), [ParticipantDefImpl](#), [ProcessDefImpl](#), [TransitionDefImpl](#), [ConditionDefImpl](#), [DeadlineDefImpl](#), [ExternalPackageDefImpl](#), [ExternalReferenceDefImpl](#), [FormalParameterDefImpl](#), [HookDefImpl](#), [PerformerAssignDefImpl](#), [RoleMapperDefImpl](#), [SimulationInformationDefImpl](#), [SubFlowDefImpl](#), [TimeEstimationDefImpl](#), [ToolDefImpl](#), [TransitionRestrictionDefImpl](#), [TypeDeclarationDefImpl](#), [DataTypeDefImpl](#), [DataTypeValueImpl](#)

public abstract class **DefImpl**  
extends Object

Constructor Summary		
	public	<a href="#">DefImpl()</a>

Method Summary		
	abstract <a href="#">DefImpl</a>	<a href="#">copy()</a>
	Date	<a href="#">copy</a> (Date src)
	List	<a href="#">copy</a> (List src)
	List	<a href="#">copy</a> (List src, List dest)
	Map	<a href="#">copy</a> (Map src)
	Set	<a href="#">copy</a> (Set src)
	static Set	<a href="#">copy</a> (Set src, Set dest)
	<a href="#">DefImpl</a>	<a href="#">copy</a> ( <a href="#">DefImpl</a> t)

## Constructors

**DefImpl**

public **DefImpl**()



(continued from last page)

## Methods

### **copy**

```
public abstract DefImpl copy()
```

### **copy**

```
public static Set copy(Set src,  
                        Set dest)
```

### **copy**

```
public List copy(List src,  
                 List dest)
```

### **copy**

```
public Set copy(Set src)
```

### **copy**

```
public List copy(List src)
```

### **copy**

```
public Map copy(Map src)
```

### **copy**

```
public Date copy(Date src)
```

### **copy**

```
public DefImpl copy(DefImpl t)
```

---

**Package**

**org.ow2.bonita.facade.def.dataType**

## org.ow2.bonita.facade.def.dataType Interface BasicTypeDef

All Superinterfaces:

[DataTypeValue](#)

All Known Implementing Classes:

[BasicTypeDefImpl](#)

---

public interface **BasicTypeDef**  
extends [DataTypeValue](#)

---

### Nested Class Summary

class	<a href="#">BasicTypeDef.Type</a> BasicTypeDef.Type
-------	--

### Method Summary

<a href="#">BasicTypeDef.Type</a>	<a href="#">getType()</a>
-----------------------------------	---------------------------

---

### Methods

#### getType

public [BasicTypeDef.Type](#) **getType()**

## org.ow2.bonita.facade.def.dataType Class BasicTypeDef.Type

java.lang.Object

└─ java.lang.Enum

└─ org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type

All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **BasicTypeDef.Type**  
extends Enum

### Field Summary

public static final	<a href="#">BOOLEAN</a>
public static final	<a href="#">DATETIME</a>
public static final	<a href="#">FLOAT</a>
public static final	<a href="#">INTEGER</a>
public static final	<a href="#">PERFORMER</a>
public static final	<a href="#">REFERENCE</a>
public static final	<a href="#">STRING</a>

Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">BasicTypeDef.Type()</a>
---------	-------------------------------------

### Method Summary

static <a href="#">BasicTypeDef.Type</a>	<a href="#">valueOf</a> (String name)
static <a href="#">BasicTypeDef.Type[]</a>	<a href="#">values</a> ()

### Fields

(continued from last page)

## STRING

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type STRING
```

## FLOAT

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type FLOAT
```

## INTEGER

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type INTEGER
```

## REFERENCE

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type REFERENCE
```

## DATETIME

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type DATETIME
```

## BOOLEAN

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type BOOLEAN
```

## PERFORMER

```
public static final org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type PERFORMER
```

## Constructors

### BasicTypeDef.Type

```
private BasicTypeDef.Type()
```

## Methods

### values

```
public final static BasicTypeDef.Type\[\] values()
```

---

## valueOf

```
public static BasicTypeDef.Type valueOf(String name)
```

## org.ow2.bonita.facade.def.dataType Interface DataTypeDef

All Known Implementing Classes:

[DataTypeDefImpl](#)

public interface **DataTypeDef**  
extends

### Nested Class Summary

class	<a href="#">DataTypeDef.Type</a> DataTypeDef.Type
-------	--

### Method Summary

<a href="#">DataTypeDef.Type</a>	<a href="#">getType()</a>
<a href="#">DataTypeValue</a>	<a href="#">getValue()</a>

### Methods

#### getType

public [DataTypeDef.Type](#) **getType()**

#### getValue

public [DataTypeValue](#) **getValue()**

# org.ow2.bonita.facade.def.dataType

## Class DataTypeDef.Type



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **DataTypeDef.Type**  
extends Enum

### Field Summary

public static final	<a href="#">ArrayType</a>
public static final	<a href="#">BasicType</a>
public static final	<a href="#">DeclaredType</a>
public static final	<a href="#">EnumerationType</a>
public static final	<a href="#">ExternalReference</a>
public static final	<a href="#">ListType</a>
public static final	<a href="#">RecordType</a>
public static final	<a href="#">SchemaType</a>
public static final	<a href="#">UnionType</a>

Fields inherited from class java.lang.Enum	
name, ordinal	

### Constructor Summary

private	<a href="#">DataTypeDef.Type</a> ()
---------	-------------------------------------

### Method Summary

static <a href="#">DataTypeDef.Type</a>	<a href="#">valueOf</a> (String name)
--	---------------------------------------



<code>static <a href="#">DataTypeDef.Type[]</a></code>	<code><a href="#">values()</a></code>
--	---------------------------------------

# Fields

## BasicType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type BasicType`

## DeclaredType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type DeclaredType`

## SchemaType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type SchemaType`

## ExternalReference

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type  
ExternalReference`

## RecordType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type RecordType`

## UnionType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type UnionType`

## EnumerationType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type  
EnumerationType`

## ArrayType

`public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type ArrayType`

(continued from last page)

## ListType

```
public static final org.ow2.bonita.facade.def.dataType.DataTypeDef.Type ListType
```

## Constructors

### DataTypeDef.Type

```
private DataTypeDef.Type()
```

## Methods

### values

```
public final static DataTypeDef.Type\[\] values()
```

### valueOf

```
public static DataTypeDef.Type valueOf(String name)
```

## org.ow2.bonita.facade.def.dataType Interface DataTypeValue

All Subinterfaces:

[BasicTypeDef](#), [EnumerationTypeDef](#)

All Known Implementing Classes:

[DataTypeValueImpl](#)

---

```
public interface DataTypeValue  
extends
```

---

---

## org.ow2.bonita.facade.def.dataType Interface EnumerationTypeDef

All Superinterfaces:

[DataTypeValue](#)

All Known Implementing Classes:

[EnumerationTypeDefImpl](#)

---

public interface **EnumerationTypeDef**  
extends [DataTypeValue](#)

---

### Method Summary

Set	<a href="#">getEnumerationValues()</a>
-----	--

---

### Methods

#### getEnumerationValues

public Set **getEnumerationValues()**

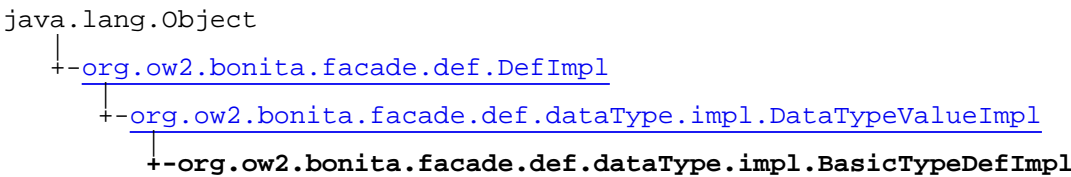
---

**Package**

**org.ow2.bonita.facade.def.dataType.impl**

# org.ow2.bonita.facade.def.dataType.impl

## Class BasicTypeDefImpl



All Implemented Interfaces:  
[BasicTypeDef](#), [DataTypeValue](#)

public class **BasicTypeDefImpl**  
extends [DataTypeValueImpl](#)  
implements [DataTypeValue](#), [BasicTypeDef](#)

Field Summary	
protected	<a href="#">type</a>

Constructor Summary	
protected	<a href="#">BasicTypeDefImpl()</a>
public	<a href="#">BasicTypeDefImpl(<a href="#">BasicTypeDef.Type</a> type)</a>

Method Summary	
<a href="#">BasicTypeDefImpl</a>	<a href="#">copy()</a>
<a href="#">BasicTypeDef.Type</a>	<a href="#">getType()</a>

Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>	
<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>	

Methods inherited from interface <a href="#">org.ow2.bonita.facade.def.dataType.BasicTypeDef</a>	
<a href="#">getType</a>	

## Fields

**type**  
protected org.ow2.bonita.facade.def.dataType.BasicTypeDef.Type **type**

## Constructors

### BasicTypeDefImpl

```
protected BasicTypeDefImpl()
```

---

### BasicTypeDefImpl

```
public BasicTypeDefImpl(BasicTypeDef.Type type)
```

## Methods

### copy

```
public BasicTypeDefImpl copy()
```

---

### getType

```
public BasicTypeDef.Type getType()
```

# org.ow2.bonita.facade.def.dataType.impl

## Class DataTypeDefImpl

java.lang.Object

└-[org.ow2.bonita.facade.def.DefImpl](#)

└-org.ow2.bonita.facade.def.dataType.impl.DataTypeDefImpl

All Implemented Interfaces:

[DataTypeDef](#)

public class **DataTypeDefImpl**

extends [DefImpl](#)

implements [DataTypeDef](#)

### Field Summary

protected	<a href="#">type</a>
protected	<a href="#">value</a>

### Constructor Summary

protected	<a href="#">DataTypeDefImpl()</a>
public	<a href="#">DataTypeDefImpl(DataTypeDef.Type type, <a href="#">DataTypeValueImpl</a> value)</a>

### Method Summary

<a href="#">DataTypeDefImpl</a>	<a href="#">copy()</a>
<a href="#">DataTypeDef.Type</a>	<a href="#">getType()</a>
<a href="#">DataTypeValue</a>	<a href="#">getValue()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.dataType.DataTypeDef](#)

[getType](#), [getValue](#)

### Fields



(continued from last page)

**type**

```
protected org.ow2.bonita.facade.def.dataType.DataTypeDef.Type type
```

**value**

```
protected org.ow2.bonita.facade.def.dataType.impl.DataTypeValueImpl value
```

## Constructors

**DataTypeDefImpl**

```
protected DataTypeDefImpl()
```

**DataTypeDefImpl**

```
public DataTypeDefImpl(DataTypeDef.Type type,  
                       DataTypeValueImpl value)
```

## Methods

**copy**

```
public DataTypeDefImpl copy()
```

**getType**

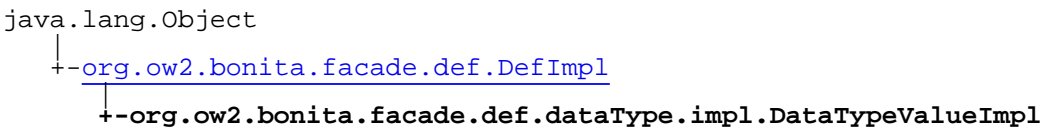
```
public DataTypeDef.Type getType()
```

**getValue**

```
public DataTypeValue getValue()
```

# org.ow2.bonita.facade.def.dataType.impl

## Class DataTypeValueImpl



All Implemented Interfaces:  
[DataTypeValue](#)

Direct Known Subclasses:  
[BasicTypeDefImpl](#), [EnumerationTypeDefImpl](#)

public abstract class **DataTypeValueImpl**  
extends [DefImpl](#)  
implements [DataTypeValue](#)

Constructor Summary	
public	<a href="#">DataTypeValueImpl()</a>

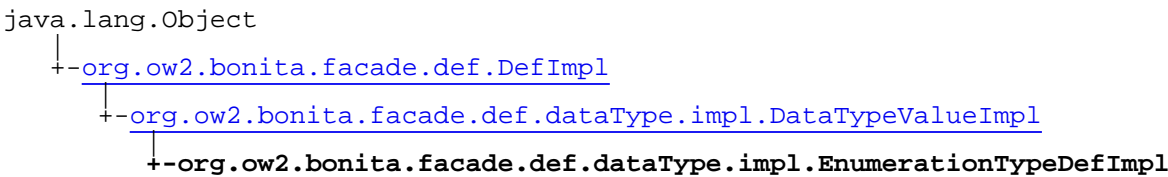
Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>	
<a href="#">copy</a>	<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>

## Constructors

### DataTypeValueImpl

public **DataTypeValueImpl()**

# org.ow2.bonita.facade.def.dataType.impl Class EnumerationTypeDefImpl



All Implemented Interfaces:  
[EnumerationTypeDef](#), [DataTypeValue](#)

public class **EnumerationTypeDefImpl**  
extends [DataTypeValueImpl](#)  
implements [DataTypeValue](#), [EnumerationTypeDef](#)

Field Summary	
protected	<a href="#">enumerationValues</a>

Constructor Summary	
protected	<a href="#">EnumerationTypeDefImpl</a> ( )
public	<a href="#">EnumerationTypeDefImpl</a> (Set enumerationValues)

Method Summary	
<a href="#">EnumerationTypeDefImpl</a>	<a href="#">copy</a> ( )
Set	<a href="#">getEnumerationValues</a> ( )

Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>	
<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>	

Methods inherited from interface <a href="#">org.ow2.bonita.facade.def.dataType.EnumerationTypeDef</a>	
<a href="#">getEnumerationValues</a>	

## Fields

### enumerationValues

protected java.util.Set **enumerationValues**

## Constructors

### EnumerationTypeDefImpl

```
protected EnumerationTypeDefImpl()
```

---

### EnumerationTypeDefImpl

```
public EnumerationTypeDefImpl(Set enumerationValues)
```

## Methods

### copy

```
public EnumerationTypeDefImpl copy()
```

---

### getEnumerationValues

```
public Set getEnumerationValues()
```

---

**Package**

**org.ow2.bonita.facade.def.element**

# org.ow2.bonita.facade.def.element Interface ConditionDef

All Known Implementing Classes:  
[ConditionDefImpl](#)

public interface **ConditionDef**  
extends

## Nested Class Summary

class	<a href="#">ConditionDef.Type</a> ConditionDef.Type
-------	--

## Method Summary

String	<a href="#">getContentAsString()</a>
<a href="#">ConditionDef.Type</a>	<a href="#">getType()</a>
String	<a href="#">getXpression()</a>
String	<a href="#">getXpressionContentAsString()</a>

## Methods

### getXpression

public String **getXpression()**

### getXpressionContentAsString

public String **getXpressionContentAsString()**

### getType

public [ConditionDef.Type](#) **getType()**

### getContentAsString

public String **getContentAsString()**

## org.ow2.bonita.facade.def.element Class ConditionDef.Type

java.lang.Object

└─ java.lang.Enum

└─ org.ow2.bonita.facade.def.element.ConditionDef.Type

### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **ConditionDef.Type**  
extends Enum

### Field Summary

public static final	<a href="#">CONDITION</a>
public static final	<a href="#">DEFAULTEXCEPTION</a>
public static final	<a href="#">EXCEPTION</a>
public static final	<a href="#">OTHERWISE</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">ConditionDef.Type()</a>
---------	-------------------------------------

### Method Summary

static <a href="#">ConditionDef.Type</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ConditionDef.Type[]</a>	<a href="#">values</a> ()

### Fields

#### CONDITION

public static final org.ow2.bonita.facade.def.element.ConditionDef.Type **CONDITION**

(continued from last page)

## OTHERWISE

```
public static final org.ow2.bonita.facade.def.element.ConditionDef.Type OTHERWISE
```

## EXCEPTION

```
public static final org.ow2.bonita.facade.def.element.ConditionDef.Type EXCEPTION
```

## DEFAULTEXCEPTION

```
public static final org.ow2.bonita.facade.def.element.ConditionDef.Type  
DEFAULTEXCEPTION
```

## Constructors

### ConditionDef.Type

```
private ConditionDef.Type()
```

## Methods

### values

```
public final static ConditionDef.Type\[\] values()
```

### valueOf

```
public static ConditionDef.Type valueOf(String name)
```



# org.ow2.bonita.facade.def.element

## Interface DeadlineDef

All Known Implementing Classes:  
[DeadlineDefImpl](#)

public interface **DeadlineDef**  
extends

### Nested Class Summary

class	<a href="#">DeadlineDef.Execution</a> DeadlineDef.Execution
-------	--

### Method Summary

String	<a href="#">getDeadlineCondition()</a>
String	<a href="#">getExceptionName()</a>
<a href="#">DeadlineDef.Execution</a>	<a href="#">getExecution()</a>

### Methods

#### getDeadlineCondition

public String **getDeadlineCondition()**

#### getExceptionName

public String **getExceptionName()**

#### getExecution

public [DeadlineDef.Execution](#) **getExecution()**

# org.ow2.bonita.facade.def.element

## Class DeadlineDef.Execution



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **DeadlineDef.Execution**  
extends Enum

### Field Summary

public static final	<a href="#">ASYNCHR</a>
public static final	<a href="#">SYNCHR</a>

Fields inherited from class java.lang.Enum
name, ordinal

### Constructor Summary

private	<a href="#">DeadlineDef.Execution()</a>
---------	---

### Method Summary

static <a href="#">DeadlineDef.Execution</a>	<a href="#">valueOf</a> (String name)
static <a href="#">DeadlineDef.Execution</a> <a href="#">[]</a>	<a href="#">values</a> ()

### Fields

**ASYNCHR**  
public static final org.ow2.bonita.facade.def.element.DeadlineDef.Execution **ASYNCHR**

**SYNCHR**  
public static final org.ow2.bonita.facade.def.element.DeadlineDef.Execution **SYNCHR**

## Constructors

### DeadlineDef.Execution

```
private DeadlineDef.Execution()
```

## Methods

### values

```
public final static DeadlineDef.Execution\[\] values()
```

---

### valueOf

```
public static DeadlineDef.Execution valueOf(String name)
```

## org.ow2.bonita.facade.def.element Interface ExternalPackageDef

All Known Implementing Classes:

[ExternalPackageDefImpl](#)

---

public interface **ExternalPackageDef**  
extends

---

### Method Summary

String	<a href="#">getHref()</a>
--------	---------------------------

---

### Methods

#### getHref

public String **getHref**()

## org.ow2.bonita.facade.def.element Interface ExternalReferenceDef

All Known Implementing Classes:

[ExternalReferenceDefImpl](#)

public interface **ExternalReferenceDef**  
extends

### Method Summary

String	<a href="#">getLocation()</a>
String	<a href="#">getNamespace()</a>
String	<a href="#">getXref()</a>

### Methods

#### getXref

public String **getXref()**

#### getLocation

public String **getLocation()**

#### getNamespace

public String **getNamespace()**

# org.ow2.bonita.facade.def.element Interface FormalParameterDef

All Known Implementing Classes:

[FormalParameterDefImpl](#)

public interface **FormalParameterDef**  
extends

## Nested Class Summary

class	<a href="#">FormalParameterDef.Mode</a> FormalParameterDef.Mode
-------	--

## Method Summary

<a href="#">DataTypeDef</a>	<a href="#">getDataType()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
String	<a href="#">getIndex()</a>
<a href="#">FormalParameterDef.Mode</a>	<a href="#">getMode()</a>

## Methods

### getId

public String **getId()**

### getDataType

public [DataTypeDef](#) **getDataType()**

### getDescription

public String **getDescription()**

(continued from last page)

## **getIndex**

```
public String getIndex()
```

---

## **getMode**

```
public FormalParameterDef.Mode getMode()
```

# org.ow2.bonita.facade.def.element

## Class FormalParameterDef.Mode



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **FormalParameterDef.Mode**  
extends Enum

### Field Summary

public static final	<a href="#">IN</a>
public static final	<a href="#">INOUT</a>
public static final	<a href="#">OUT</a>

Fields inherited from class java.lang.Enum
name, ordinal

### Constructor Summary

private	<a href="#">FormalParameterDef.Mode()</a>
---------	---

### Method Summary

static <a href="#">FormalParameterDef.Mode</a>	<a href="#">valueOf</a> (String name)
static <a href="#">FormalParameterDef.Mode[]</a>	<a href="#">values</a> ()

### Fields

**IN**  
public static final org.ow2.bonita.facade.def.element.FormalParameterDef.Mode **IN**



(continued from last page)

## OUT

```
public static final org.ow2.bonita.facade.def.element.FormalParameterDef.Mode OUT
```

## INOUT

```
public static final org.ow2.bonita.facade.def.element.FormalParameterDef.Mode INOUT
```

## Constructors

### FormalParameterDef.Mode

```
private FormalParameterDef.Mode()
```

## Methods

### values

```
public final static FormalParameterDef.Mode\[\] values()
```

### valueOf

```
public static FormalParameterDef.Mode valueOf(String name)
```

# org.ow2.bonita.facade.def.element Interface HookDef

All Known Implementing Classes:

[HookDefImpl](#)

public interface **HookDef**  
extends

## Nested Class Summary

class	<a href="#">HookDef.Event</a> HookDef.Event
-------	--

## Method Summary

String	<a href="#">getClassName()</a>
<a href="#">HookDef.Event</a>	<a href="#">getEvent()</a>
Map	<a href="#">getParameters()</a>
boolean	<a href="#">isThrowingException()</a>

## Methods

### getClassName

public String **getClassName()**

### getEvent

public [HookDef.Event](#) **getEvent()**

### isThrowingException

public boolean **isThrowingException()**

### getParameters

public Map **getParameters()**

## org.ow2.bonita.facade.def.element

### Class HookDef.Event

```

java.lang.Object
  |
  +- java.lang.Enum
        |
        +- org.ow2.bonita.facade.def.element.HookDef.Event
  
```

#### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **HookDef.Event**  
extends Enum

### Field Summary

public static final	<a href="#">onCancel</a>
public static final	<a href="#">onDeadline</a>
public static final	<a href="#">onFinish</a>
public static final	<a href="#">onReady</a>
public static final	<a href="#">onStart</a>

#### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">HookDef.Event()</a>
---------	---------------------------------

### Method Summary

static <a href="#">HookDef.Event</a>	<a href="#">valueOf</a> (String name)
static <a href="#">HookDef.Event[]</a>	<a href="#">values</a> ()

### Fields

#### onStart

public static final org.ow2.bonita.facade.def.element.HookDef.Event **onStart**

---

## onFinish

```
public static final org.ow2.bonita.facade.def.element.HookDef.Event onFinish
```

---

## onDeadline

```
public static final org.ow2.bonita.facade.def.element.HookDef.Event onDeadline
```

---

## onCancel

```
public static final org.ow2.bonita.facade.def.element.HookDef.Event onCancel
```

---

## onReady

```
public static final org.ow2.bonita.facade.def.element.HookDef.Event onReady
```

## Constructors

### HookDef.Event

```
private HookDef.Event()
```

## Methods

### values

```
public final static HookDef.Event\[\] values()
```

---

### valueOf

```
public static HookDef.Event valueOf(String name)
```

## org.ow2.bonita.facade.def.element Interface PerformerAssignDef

All Known Implementing Classes:

[PerformerAssignDefImpl](#)

public interface **PerformerAssignDef**  
extends

### Method Summary

String	<a href="#">getClassName()</a>
Map	<a href="#">getParameters()</a>

### Methods

#### getClassName

```
public String getClassName()
```

#### getParameters

```
public Map getParameters()
```

## org.ow2.bonita.facade.def.element Interface RoleMapperDef

All Known Implementing Classes:

[RoleMapperDefImpl](#)

public interface **RoleMapperDef**  
extends

### Method Summary

String	<a href="#">getClassName()</a>
Map	<a href="#">getParameters()</a>

### Methods

#### getClassName

public String **getClassName()**

#### getParameters

public Map **getParameters()**

## org.ow2.bonita.facade.def.element Interface SimulationInformationDef

All Known Implementing Classes:  
[SimulationInformationDefImpl](#)

public interface **SimulationInformationDef**  
extends

### Nested Class Summary

class	<a href="#">SimulationInformationDef.Instantiation</a> SimulationInformationDef.Instantiation
-------	--

### Method Summary

String	<a href="#">getCost()</a>
<a href="#">SimulationInformationDef.Instantiation</a>	<a href="#">getInstantiation()</a>
<a href="#">TimeEstimationDef</a>	<a href="#">getTimeEstimation()</a>

### Methods

#### getCost

public String **getCost()**

#### getTimeEstimation

public [TimeEstimationDef](#) **getTimeEstimation()**

#### getInstantiation

public [SimulationInformationDef.Instantiation](#) **getInstantiation()**

## org.ow2.bonita.facade.def.element

### Class SimulationInformationDef.Instantiation

```

java.lang.Object
  |
  +- java.lang.Enum
        |
        +- org.ow2.bonita.facade.def.element.SimulationInformationDef.Instantiation
  
```

#### All Implemented Interfaces:

java.io.Serializable, Comparable

```

public static final class SimulationInformationDef.Instantiation
extends Enum
  
```

### Field Summary

public static final	<a href="#">MULTIPLE</a>
public static final	<a href="#">ONCE</a>

#### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">SimulationInformationDef.Instantiation()</a>
---------	--

### Method Summary

static <a href="#">SimulationInformationDef.Instantiation</a>	<a href="#">valueOf</a> (String name)
static <a href="#">SimulationInformationDef.Instantiation[]</a>	<a href="#">values</a> ()

### Fields

#### ONCE

```

public static final
org.ow2.bonita.facade.def.element.SimulationInformationDef.Instantiation ONCE
  
```



(continued from last page)

## MULTIPLE

```
public static final  
org.ow2.bonita.facade.def.element.SimulationInformationDef.Instantiation MULTIPLE
```

## Constructors

### SimulationInformationDef.Instantiation

```
private SimulationInformationDef.Instantiation()
```

## Methods

### values

```
public final static SimulationInformationDef.Instantiation\[\] values()
```

---

### valueOf

```
public static SimulationInformationDef.Instantiation valueOf(String name)
```

## org.ow2.bonita.facade.def.element Interface SubFlowDef

All Known Implementing Classes:  
[SubFlowDefImpl](#)

public interface **SubFlowDef**  
extends

### Nested Class Summary

class	<a href="#">SubFlowDef.Execution</a> SubFlowDef.Execution
-------	--

### Method Summary

List	<a href="#">getActualParameters()</a>
<a href="#">SubFlowDef.Execution</a>	<a href="#">getExecution()</a>
String	<a href="#">getId()</a>

### Methods

#### getId

public String **getId()**

#### getActualParameters

public List **getActualParameters()**

#### getExecution

public [SubFlowDef.Execution](#) **getExecution()**

org.ow2.bonita.facade.def.element  
Class SubFlowDef.Execution



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class SubFlowDef.Execution  
extends Enum

Field Summary

public static final	<a href="#">ASYNCHR</a>
public static final	<a href="#">SYNCHR</a>

Fields inherited from class java.lang.Enum
name, ordinal

Constructor Summary

private	<a href="#">SubFlowDef.Execution()</a>
---------	--

Method Summary

static <a href="#">SubFlowDef.Execution</a>	<a href="#">valueOf</a> (String name)
static <a href="#">SubFlowDef.Execution</a> []	<a href="#">values</a> ()

Fields

ASYNCHR

public static final org.ow2.bonita.facade.def.element.SubFlowDef.Execution ASYNCHR

SYNCHR

public static final org.ow2.bonita.facade.def.element.SubFlowDef.Execution SYNCHR

## Constructors

### SubFlowDef.Execution

```
private SubFlowDef.Execution()
```

## Methods

### values

```
public final static SubFlowDef.Execution\[\] values()
```

---

### valueOf

```
public static SubFlowDef.Execution valueOf(String name)
```

## org.ow2.bonita.facade.def.element Interface TimeEstimationDef

All Known Implementing Classes:

[TimeEstimationDefImpl](#)

---

public interface **TimeEstimationDef**  
extends

---

### Method Summary

String	<a href="#">getDuration()</a>
String	<a href="#">getWaitingTime()</a>
String	<a href="#">getWorkingTime()</a>

---

### Methods

#### getWaitingTime

public String **getWaitingTime()**

---

#### getWorkingTime

public String **getWorkingTime()**

---

#### getDuration

public String **getDuration()**

# org.ow2.bonita.facade.def.element Interface ToolDef

All Known Implementing Classes:

[ToolDefImpl](#)

public interface **ToolDef**  
extends

## Nested Class Summary

class	<a href="#">ToolDef.Type</a> ToolDef.Type
-------	--

## Method Summary

List	<a href="#">getActualParameters()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
<a href="#">ToolDef.Type</a>	<a href="#">getType()</a>

## Methods

### getId

public String **getId()**

### getActualParameters

public List **getActualParameters()**

### getDescription

public String **getDescription()**

### getType

public [ToolDef.Type](#) **getType()**

org.ow2.bonita.facade.def.element  
Class ToolDef.Type



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **ToolDef.Type**  
extends Enum

Field Summary	
public static final	<a href="#">APPLICATION</a>
public static final	<a href="#">PROCEDURE</a>

Fields inherited from class java.lang.Enum	
name, ordinal	

Constructor Summary	
private	<a href="#">ToolDef.Type()</a>

Method Summary	
static <a href="#">ToolDef.Type</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ToolDef.Type[]</a>	<a href="#">values</a> ()

Fields

APPLICATION

public static final org.ow2.bonita.facade.def.element.ToolDef.Type **APPLICATION**

PROCEDURE

public static final org.ow2.bonita.facade.def.element.ToolDef.Type **PROCEDURE**

(continued from last page)

## Constructors

### **ToolDef.Type**

```
private ToolDef.Type()
```

## Methods

### **values**

```
public final static ToolDef.Type\[\] values()
```

---

### **valueOf**

```
public static ToolDef.Type valueOf(String name)
```



## org.ow2.bonita.facade.def.element Interface TransitionRestrictionDef

All Known Implementing Classes:  
[TransitionRestrictionDefImpl](#)

public interface **TransitionRestrictionDef**  
extends

### Nested Class Summary

class	<a href="#">TransitionRestrictionDef.JoinType</a> TransitionRestrictionDef.JoinType
class	<a href="#">TransitionRestrictionDef.SplitType</a> TransitionRestrictionDef.SplitType

### Method Summary

<a href="#">TransitionRestrictionDef.JoinType</a>	<a href="#">getJoinType()</a>
Set	<a href="#">getSplitTransitionRefIds()</a>
<a href="#">TransitionRestrictionDef.SplitType</a>	<a href="#">getSplitType()</a>

### Methods

#### getJoinType

public [TransitionRestrictionDef.JoinType](#) **getJoinType()**

#### getSplitType

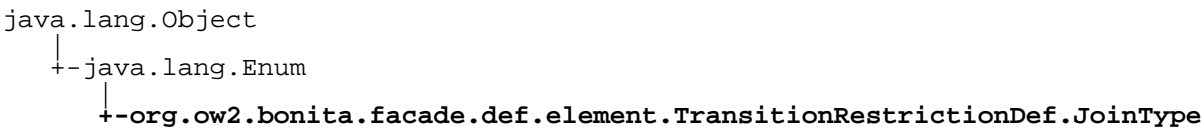
public [TransitionRestrictionDef.SplitType](#) **getSplitType()**

#### getSplitTransitionRefIds

public Set **getSplitTransitionRefIds()**

# org.ow2.bonita.facade.def.element

## Class TransitionRestrictionDef.JoinType



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **TransitionRestrictionDef.JoinType**  
extends Enum

### Field Summary

public static final	<a href="#">AND</a>
public static final	<a href="#">XOR</a>

Fields inherited from class java.lang.Enum	
name, ordinal	

### Constructor Summary

private	<a href="#">TransitionRestrictionDef.JoinType()</a>
---------	---

### Method Summary

static <a href="#">TransitionRestrictionDef.JoinType</a>	<a href="#">valueOf</a> (String name)
static <a href="#">TransitionRestrictionDef.JoinType[]</a>	<a href="#">values</a> ()

### Fields

**AND**

public static final  
org.ow2.bonita.facade.def.element.TransitionRestrictionDef.JoinType **AND**

(continued from last page)

## XOR

```
public static final  
org.ow2.bonita.facade.def.element.TransitionRestrictionDef.JoinType XOR
```

## Constructors

### TransitionRestrictionDef.JoinType

```
private TransitionRestrictionDef.JoinType()
```

## Methods

### values

```
public final static TransitionRestrictionDef.JoinType\[\] values()
```

---

### valueOf

```
public static TransitionRestrictionDef.JoinType valueOf(String name)
```

## org.ow2.bonita.facade.def.element Class TransitionRestrictionDef.SplitType

java.lang.Object

└- java.lang.Enum

└- org.ow2.bonita.facade.def.element.TransitionRestrictionDef.SplitType

### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **TransitionRestrictionDef.SplitType**  
extends Enum

### Field Summary

public static final	<a href="#">AND</a>
public static final	<a href="#">XOR</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">TransitionRestrictionDef.SplitType()</a>
---------	--

### Method Summary

static <a href="#">TransitionRestrictionDef.SplitType</a>	<a href="#">valueOf</a> (String name)
static <a href="#">TransitionRestrictionDef.SplitType[]</a>	<a href="#">values</a> ()

### Fields

#### AND

public static final  
org.ow2.bonita.facade.def.element.TransitionRestrictionDef.SplitType **AND**

(continued from last page)

## XOR

```
public static final  
org.ow2.bonita.facade.def.element.TransitionRestrictionDef.SplitType XOR
```

## Constructors

### TransitionRestrictionDef.SplitType

```
private TransitionRestrictionDef.SplitType()
```

## Methods

### values

```
public final static TransitionRestrictionDef.SplitType\[\] values()
```

---

### valueOf

```
public static TransitionRestrictionDef.SplitType valueOf(String name)
```

## org.ow2.bonita.facade.def.element Interface TypeDeclarationDef

All Known Implementing Classes:

[TypeDeclarationDefImpl](#)

public interface **TypeDeclarationDef**  
extends

### Method Summary

Set	<a href="#">getDataTypes()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
String	<a href="#">getName()</a>

### Methods

#### getName

```
public String getName()
```

#### getId

```
public String getId()
```

#### getDescription

```
public String getDescription()
```

#### getDataTypes

```
public Set getDataTypes()
```

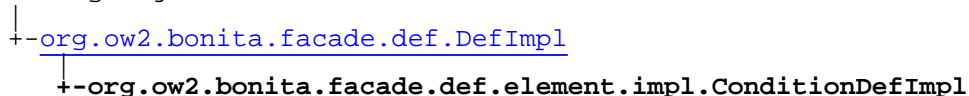
---

**Package**

**org.ow2.bonita.facade.def.element.impl**

## org.ow2.bonita.facade.def.element.impl Class ConditionDefImpl

java.lang.Object



All Implemented Interfaces:

[ConditionDef](#)

public class **ConditionDefImpl**

extends [DefImpl](#)

implements [ConditionDef](#)

### Field Summary

protected	<a href="#">contentAsString</a>
protected	<a href="#">type</a>
protected	<a href="#">xpression</a>
protected	<a href="#">xpressionContentAsString</a>

### Constructor Summary

protected	<a href="#">ConditionDefImpl()</a>
public	<a href="#">ConditionDefImpl</a> (String contentAsString, <a href="#">ConditionDef.Type</a> type, String xpression, String xpressionContentAsString)

### Method Summary

<a href="#">ConditionDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getContentAsString()</a>
<a href="#">ConditionDef.Type</a>	<a href="#">getType()</a>
String	<a href="#">getXpression()</a>
String	<a href="#">getXpressionContentAsString()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)



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Methods inherited from interface [org.ow2.bonita.facade.def.element.ConditionDef](#)

[getContentAsString](#), [getType](#), [getXpression](#), [getXpressionContentAsString](#)

---

## Fields

### contentAsString

protected java.lang.String **contentAsString**

---

### type

protected org.ow2.bonita.facade.def.element.ConditionDef.Type **type**

---

### xpression

protected java.lang.String **xpression**

---

### xpressionContentAsString

protected java.lang.String **xpressionContentAsString**

---

## Constructors

### ConditionDefImpl

protected **ConditionDefImpl**()

---

### ConditionDefImpl

```
public ConditionDefImpl(String contentAsString,  
                        ConditionDef.Type type,  
                        String xpression,  
                        String xpressionContentAsString)
```

---

## Methods

### copy

public [ConditionDefImpl](#) **copy**()

---

---

## getContentAsString

```
public String getContentAsString()
```

---

## getType

```
public ConditionDef.Type getType()
```

---

## getXpression

```
public String getXpression()
```

---

## getXpressionContentAsString

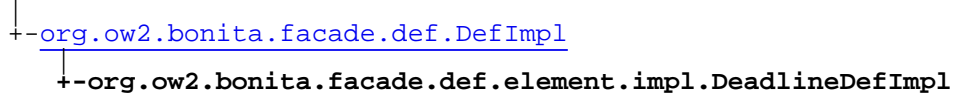
```
public String getXpressionContentAsString()
```

---

## org.ow2.bonita.facade.def.element.impl

### Class DeadlineDefImpl

java.lang.Object



All Implemented Interfaces:

[DeadlineDef](#)

public class **DeadlineDefImpl**

extends [DefImpl](#)

implements [DeadlineDef](#)

#### Field Summary

protected	<a href="#">deadlineCondition</a>
protected	<a href="#">exceptionName</a>
protected	<a href="#">execution</a>

#### Constructor Summary

protected	<a href="#">DeadlineDefImpl()</a>
protected	<a href="#">DeadlineDefImpl(String deadlineCondition, String exceptionName, <a href="#">DeadlineDef.Execution</a> execution)</a>

#### Method Summary

<a href="#">DeadlineDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getDeadlineCondition()</a>
String	<a href="#">getExceptionName()</a>
<a href="#">DeadlineDef.Execution</a>	<a href="#">getExecution()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.DeadlineDef](#)

[getDeadlineCondition](#), [getExceptionName](#), [getExecution](#)

## Fields

### deadlineCondition

protected java.lang.String **deadlineCondition**

---

### exceptionName

protected java.lang.String **exceptionName**

---

### execution

protected org.ow2.bonita.facade.def.element.DeadlineDef.Execution **execution**

---

## Constructors

### DeadlineDefImpl

protected **DeadlineDefImpl**()

---

### DeadlineDefImpl

protected **DeadlineDefImpl**(String deadlineCondition,  
String exceptionName,  
[DeadlineDef.Execution](#) execution)

---

## Methods

### copy

public [DeadlineDefImpl](#) **copy**()

---

### getDeadlineCondition

public String **getDeadlineCondition**()

---

### getExceptionName

public String **getExceptionName**()

---

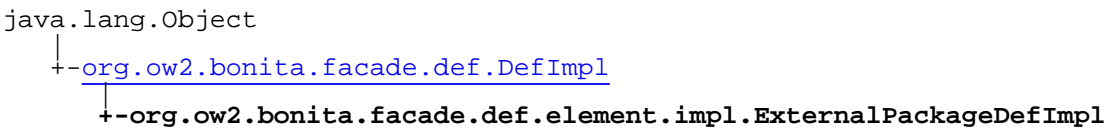
---

## getExecution

```
public DeadlineDef.Execution getExecution()
```

# org.ow2.bonita.facade.def.element.impl

## Class ExternalPackageDefImpl



All Implemented Interfaces:  
[ExternalPackageDef](#)

public class **ExternalPackageDefImpl**  
extends [DefImpl](#)  
implements [ExternalPackageDef](#)

### Field Summary

protected	<a href="#">href</a>
-----------	----------------------

### Constructor Summary

protected	<a href="#">ExternalPackageDefImpl</a> ()
public	<a href="#">ExternalPackageDefImpl</a> (String href)

### Method Summary

<a href="#">ExternalPackageDefImpl</a>	<a href="#">copy</a> ()
String	<a href="#">getHref</a> ()

#### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.element.ExternalPackageDef](#)

[getHref](#)

### Fields

**href**  
protected java.lang.String **href**

(continued from last page)

## Constructors

### ExternalPackageDefImpl

```
protected ExternalPackageDefImpl()
```

---

### ExternalPackageDefImpl

```
public ExternalPackageDefImpl(String href)
```

## Methods

### copy

```
public ExternalPackageDefImpl copy()
```

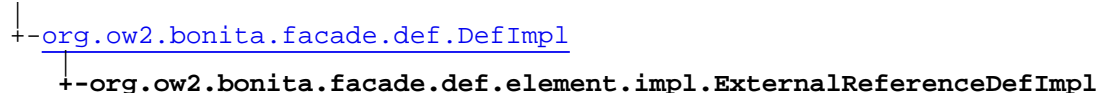
---

### getHref

```
public String getHref()
```

## org.ow2.bonita.facade.def.element.impl Class ExternalReferenceDefImpl

java.lang.Object



All Implemented Interfaces:

[ExternalReferenceDef](#)

public class **ExternalReferenceDefImpl**

extends [DefImpl](#)

implements [ExternalReferenceDef](#)

### Field Summary

protected	<a href="#">location</a>
protected	<a href="#">namespace</a>
protected	<a href="#">xref</a>

### Constructor Summary

protected	<a href="#">ExternalReferenceDefImpl()</a>
public	<a href="#">ExternalReferenceDefImpl</a> (String location, String namespace, String xref)

### Method Summary

<a href="#">ExternalReferenceDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getLocation()</a>
String	<a href="#">getNamespace()</a>
String	<a href="#">getXref()</a>

#### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.element.ExternalReferenceDef](#)

[getLocation](#), [getNamespace](#), [getXref](#)



## Fields

### location

protected java.lang.String **location**

---

### namespace

protected java.lang.String **namespace**

---

### xref

protected java.lang.String **xref**

## Constructors

### ExternalReferenceDefImpl

protected **ExternalReferenceDefImpl**()

---

### ExternalReferenceDefImpl

```
public ExternalReferenceDefImpl(String location,
                                String namespace,
                                String xref)
```

## Methods

### copy

public [ExternalReferenceDefImpl](#) **copy**()

---

### getLocation

public String **getLocation**()

---

### getNamespace

public String **getNamespace**()

---

---

## getXref

```
public String getXref()
```

## org.ow2.bonita.facade.def.element.impl Class FormalParameterDefImpl

java.lang.Object

```

+--org.ow2.bonita.facade.def.DefImpl
    +--org.ow2.bonita.facade.def.element.impl.FormalParameterDefImpl
  
```

All Implemented Interfaces:

[FormalParameterDef](#)

public class **FormalParameterDefImpl**

extends [DefImpl](#)

implements [FormalParameterDef](#)

### Field Summary

protected	<a href="#">dataType</a>
protected	<a href="#">description</a>
protected	<a href="#">id</a>
protected	<a href="#">index</a>
protected	<a href="#">mode</a>

### Constructor Summary

protected	<a href="#">FormalParameterDefImpl()</a>
public	<a href="#">FormalParameterDefImpl</a> ( <a href="#">DataTypeDefImpl</a> dataType, String description, String id, String index, <a href="#">FormalParameterDef.Mode</a> mode)

### Method Summary

<a href="#">FormalParameterDefImpl</a>	<a href="#">copy()</a>
<a href="#">DataTypeDefImpl</a>	<a href="#">getDataType()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
String	<a href="#">getIndex()</a>

<a href="#">FormalParameterDef.Mode</a>	<a href="#">getMode()</a>
---	---------------------------

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.FormalParameterDef](#)

[getDataType](#), [getDescription](#), [getId](#), [getIndex](#), [getMode](#)

Fields

dataType

protected org.ow2.bonita.facade.def.dataType.impl.DataTypeDefImpl **dataType**

description

protected java.lang.String **description**

id

protected java.lang.String **id**

index

protected java.lang.String **index**

mode

protected org.ow2.bonita.facade.def.element.FormalParameterDef.Mode **mode**

Constructors

FormalParameterDefImpl

protected **FormalParameterDefImpl()**

(continued from last page)

## FormalParameterDefImpl

```
public FormalParameterDefImpl(DataTypeDefImpl dataType,  
                               String description,  
                               String id,  
                               String index,  
                               FormalParameterDef.Mode mode)
```

## Methods

### copy

```
public FormalParameterDefImpl copy()
```

### getDataType

```
public DataTypeDefImpl getDataType()
```

### getDescription

```
public String getDescription()
```

### getId

```
public String getId()
```

### getIndex

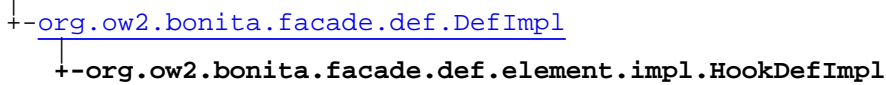
```
public String getIndex()
```

### getMode

```
public FormalParameterDef.Mode getMode()
```

## org.ow2.bonita.facade.def.element.impl Class HookDefImpl

java.lang.Object



All Implemented Interfaces:

[HookDef](#)

public class **HookDefImpl**

extends [DefImpl](#)

implements [HookDef](#)

### Field Summary

protected	<a href="#">className</a>
protected	<a href="#">event</a>
protected	<a href="#">parameters</a>
protected	<a href="#">throwingException</a>

### Constructor Summary

protected	<a href="#">HookDefImpl()</a>
public	<a href="#">HookDefImpl</a> (String className, <a href="#">HookDef.Event</a> event, Map parameters, boolean throwingException)

### Method Summary

<a href="#">HookDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getClassName()</a>
<a href="#">HookDef.Event</a>	<a href="#">getEvent()</a>
Map	<a href="#">getParameters()</a>
boolean	<a href="#">isThrowingException()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

---

Methods inherited from interface [org.ow2.bonita.facade.def.element.HookDef](#)

[getClassName](#), [getEvent](#), [getParameters](#), [isThrowingException](#)

---

## Fields

### className

protected java.lang.String **className**

---

### event

protected org.ow2.bonita.facade.def.element.HookDef.Event **event**

---

### parameters

protected java.util.Map **parameters**

---

### throwingException

protected boolean **throwingException**

---

## Constructors

### HookDefImpl

protected **HookDefImpl**()

---

### HookDefImpl

```
public HookDefImpl(String className,
                   HookDef.Event event,
                   Map parameters,
                   boolean throwingException)
```

---

## Methods

### copy

public [HookDefImpl](#) **copy**()

---

---

## getClassName

```
public String getClassName()
```

---

## getEvent

```
public HookDef.Event getEvent()
```

---

## getParameters

```
public Map getParameters()
```

---

## isThrowingException

```
public boolean isThrowingException()
```

---



# org.ow2.bonita.facade.def.element.impl

## Class PerformerAssignDefImpl

```
java.lang.Object
├-org.ow2.bonita.facade.def.DefImpl
│  └-org.ow2.bonita.facade.def.element.impl.PerformerAssignDefImpl
```

All Implemented Interfaces:  
[PerformerAssignDef](#)

public class **PerformerAssignDefImpl**  
extends [DefImpl](#)  
implements [PerformerAssignDef](#)

### Field Summary

protected	<a href="#">className</a>
protected	<a href="#">parameters</a>

### Constructor Summary

protected	<a href="#">PerformerAssignDefImpl()</a>
public	<a href="#">PerformerAssignDefImpl</a> (String className, Map parameters)

### Method Summary

<a href="#">PerformerAssignDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getClassName()</a>
Map	<a href="#">getParameters()</a>

Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>
<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>

Methods inherited from interface <a href="#">org.ow2.bonita.facade.def.element.PerformerAssignDef</a>
<a href="#">getClassName</a> , <a href="#">getParameters</a>

### Fields

(continued from last page)

---

## className

```
protected java.lang.String className
```

---

## parameters

```
protected java.util.Map parameters
```

## Constructors

### PerformerAssignDefImpl

```
protected PerformerAssignDefImpl()
```

---

### PerformerAssignDefImpl

```
public PerformerAssignDefImpl(String className,  
                               Map parameters)
```

## Methods

### copy

```
public PerformerAssignDefImpl copy()
```

---

### getClassName

```
public String getClassName()
```

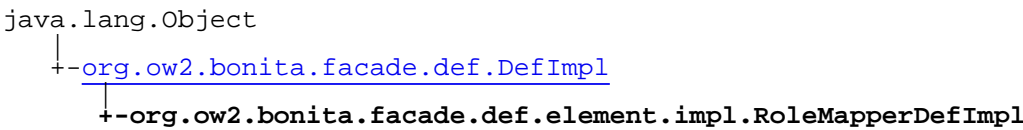
---

### getParameters

```
public Map getParameters()
```

# org.ow2.bonita.facade.def.element.impl

## Class RoleMapperDefImpl



All Implemented Interfaces:  
[RoleMapperDef](#)

public class **RoleMapperDefImpl**  
extends [DefImpl](#)  
implements [RoleMapperDef](#)

Field Summary	
protected	<a href="#">className</a>
protected	<a href="#">parameters</a>

Constructor Summary	
protected	<a href="#">RoleMapperDefImpl()</a>
public	<a href="#">RoleMapperDefImpl</a> (String className, Map parameters)

Method Summary	
<a href="#">RoleMapperDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getClassName()</a>
Map	<a href="#">getParameters()</a>

Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>	
<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>	

Methods inherited from interface <a href="#">org.ow2.bonita.facade.def.element.RoleMapperDef</a>	
<a href="#">getClassName</a> , <a href="#">getParameters</a>	

## Fields

(continued from last page)

## className

```
protected java.lang.String className
```

## parameters

```
protected java.util.Map parameters
```

## Constructors

### RoleMapperDefImpl

```
protected RoleMapperDefImpl()
```

### RoleMapperDefImpl

```
public RoleMapperDefImpl(String className,  
                          Map parameters)
```

## Methods

### copy

```
public RoleMapperDefImpl copy()
```

### getClassName

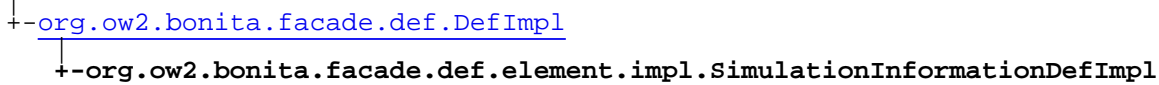
```
public String getClassName()
```

### getParameters

```
public Map getParameters()
```

## org.ow2.bonita.facade.def.element.impl Class SimulationInformationDefImpl

java.lang.Object



All Implemented Interfaces:

[SimulationInformationDef](#)

public class **SimulationInformationDefImpl**

extends [DefImpl](#)

implements [SimulationInformationDef](#)

### Field Summary

protected	<a href="#">cost</a>
protected	<a href="#">instantiation</a>
protected	<a href="#">timeEstimation</a>

### Constructor Summary

protected	<a href="#">SimulationInformationDefImpl()</a>
public	<a href="#">SimulationInformationDefImpl(String cost, SimulationInformationDef.Instantiation instantiation, TimeEstimationDefImpl timeEstimation)</a>

### Method Summary

<a href="#">SimulationInformationDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getCost()</a>
<a href="#">SimulationInformationDef.Instantiation</a>	<a href="#">getInstantiation()</a>
<a href="#">TimeEstimationDefImpl</a>	<a href="#">getTimeEstimation()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.SimulationInformationDef](#)

[getCost](#), [getInstantiation](#), [getTimeEstimation](#)

## Fields

### cost

protected java.lang.String **cost**

---

### instantiation

protected org.ow2.bonita.facade.def.element.SimulationInformationDef.Instantiation  
**instantiation**

---

### timeEstimation

protected org.ow2.bonita.facade.def.element.impl.TimeEstimationDefImpl **timeEstimation**

---

## Constructors

### SimulationInformationDefImpl

protected **SimulationInformationDefImpl**()

---

### SimulationInformationDefImpl

```
public SimulationInformationDefImpl(String cost,  
                                   SimulationInformationDef.Instantiation  
instantiation,  
                                   TimeEstimationDefImpl timeEstimation)
```

---

## Methods

### copy

public [SimulationInformationDefImpl](#) **copy**()

---

### getCost

public String **getCost**()

---

### getInstantiation

public [SimulationInformationDef.Instantiation](#) **getInstantiation**()

---

(continued from last page)

---

## getTimeEstimation

```
public TimeEstimationDefImpl getTimeEstimation( )
```

## org.ow2.bonita.facade.def.element.impl

### Class SubFlowDefImpl

java.lang.Object

```

+--org.ow2.bonita.facade.def.DefImpl
    |
    +--org.ow2.bonita.facade.def.element.impl.SubFlowDefImpl
  
```

All Implemented Interfaces:

[SubFlowDef](#)

public class **SubFlowDefImpl**

extends [DefImpl](#)

implements [SubFlowDef](#)

#### Field Summary

protected	<a href="#">actualParameters</a>
protected	<a href="#">execution</a>
protected	<a href="#">id</a>

#### Constructor Summary

protected	<a href="#">SubFlowDefImpl()</a>
public	<a href="#">SubFlowDefImpl</a> (List actualParameters, <a href="#">SubFlowDef.Execution</a> execution, String id)

#### Method Summary

<a href="#">SubFlowDefImpl</a>	<a href="#">copy()</a>
List	<a href="#">getActualParameters()</a>
<a href="#">SubFlowDef.Execution</a>	<a href="#">getExecution()</a>
String	<a href="#">getId()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.SubFlowDef](#)

[getActualParameters](#), [getExecution](#), [getId](#)



## Fields

### actualParameters

```
protected java.util.List actualParameters
```

---

### execution

```
protected org.ow2.bonita.facade.def.element.SubFlowDef.Execution execution
```

---

### id

```
protected java.lang.String id
```

---

## Constructors

### SubFlowDefImpl

```
protected SubFlowDefImpl()
```

---

### SubFlowDefImpl

```
public SubFlowDefImpl(List actualParameters,  
                      SubFlowDef.Execution execution,  
                      String id)
```

---

## Methods

### copy

```
public SubFlowDefImpl copy()
```

---

### getActualParameters

```
public List getActualParameters()
```

---

### getExecution

```
public SubFlowDef.Execution getExecution()
```

---

---

## getId

```
public String getId()
```

## org.ow2.bonita.facade.def.element.impl Class TimeEstimationDefImpl

java.lang.Object

```

+--org.ow2.bonita.facade.def.DefImpl
    |
    +--org.ow2.bonita.facade.def.element.impl.TimeEstimationDefImpl
  
```

All Implemented Interfaces:

[TimeEstimationDef](#)

public class **TimeEstimationDefImpl**

extends [DefImpl](#)

implements [TimeEstimationDef](#)

### Field Summary

protected	<a href="#">duration</a>
protected	<a href="#">waitingTime</a>
protected	<a href="#">workingTime</a>

### Constructor Summary

protected	<a href="#">TimeEstimationDefImpl()</a>
public	<a href="#">TimeEstimationDefImpl</a> (String duration, String waitingTime, String workingTime)

### Method Summary

<a href="#">TimeEstimationDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getDuration()</a>
String	<a href="#">getWaitingTime()</a>
String	<a href="#">getWorkingTime()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.TimeEstimationDef](#)

[getDuration](#), [getWaitingTime](#), [getWorkingTime](#)

## Fields

### **duration**

protected java.lang.String **duration**

---

### **waitingTime**

protected java.lang.String **waitingTime**

---

### **workingTime**

protected java.lang.String **workingTime**

## Constructors

### **TimeEstimationDefImpl**

protected **TimeEstimationDefImpl**()

---

### **TimeEstimationDefImpl**

```
public TimeEstimationDefImpl(String duration,
                             String waitingTime,
                             String workingTime)
```

## Methods

### **copy**

public [TimeEstimationDefImpl](#) **copy**()

---

### **getDuration**

public String **getDuration**()

---

### **getWaitingTime**

public String **getWaitingTime**()

---

---

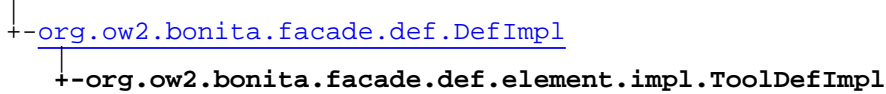
## **getWorkingTime**

```
public String getWorkingTime()
```

# org.ow2.bonita.facade.def.element.impl

## Class ToolDefImpl

java.lang.Object



All Implemented Interfaces:

[ToolDef](#)

public class **ToolDefImpl**

extends [DefImpl](#)

implements [ToolDef](#)

### Field Summary

protected	<a href="#">actualParameters</a>
protected	<a href="#">description</a>
protected	<a href="#">id</a>
protected	<a href="#">type</a>

### Constructor Summary

protected	<a href="#">ToolDefImpl()</a>
protected	<a href="#">ToolDefImpl</a> (List actualParameters, String description, String id, <a href="#">ToolDef.Type</a> type)

### Method Summary

<a href="#">ToolDefImpl</a>	<a href="#">copy()</a>
List	<a href="#">getActualParameters()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
<a href="#">ToolDef.Type</a>	<a href="#">getType()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

---

Methods inherited from interface [org.ow2.bonita.facade.def.element.ToolDef](#)

[getActualParameters](#), [getDescription](#), [getId](#), [getType](#)

---

## Fields

### actualParameters

protected java.util.List **actualParameters**

---

### description

protected java.lang.String **description**

---

### id

protected java.lang.String **id**

---

### type

protected org.ow2.bonita.facade.def.element.ToolDef.Type **type**

---

## Constructors

### ToolDefImpl

protected **ToolDefImpl**()

---

### ToolDefImpl

protected **ToolDefImpl**(List actualParameters,  
String description,  
String id,  
[ToolDef.Type](#) type)

---

## Methods

### copy

public [ToolDefImpl](#) **copy**()

---

---

## getActualParameters

```
public List getActualParameters()
```

---

## getDescription

```
public String getDescription()
```

---

## getId

```
public String getId()
```

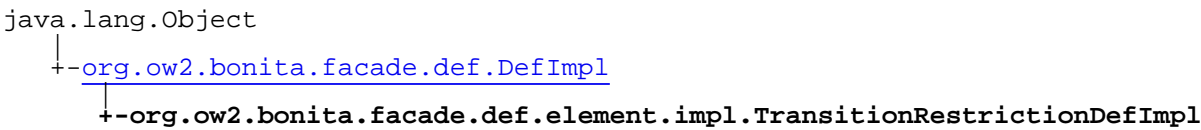
---

## getType

```
public ToolDef.Type getType()
```



org.ow2.bonita.facade.def.element.impl  
Class TransitionRestrictionDefImpl



All Implemented Interfaces:  
[TransitionRestrictionDef](#)

public class **TransitionRestrictionDefImpl**  
extends [DefImpl](#)  
implements [TransitionRestrictionDef](#)

Field Summary

protected	<a href="#">joinType</a>
protected	<a href="#">splitTransitionRefIds</a>
protected	<a href="#">splitType</a>

Constructor Summary

protected	<a href="#">TransitionRestrictionDefImpl()</a>
public	<a href="#">TransitionRestrictionDefImpl(TransitionRestrictionDef.JoinType joinType, TransitionRestrictionDef.SplitType splitType, Set splitTransitionRefIds)</a>

Method Summary

<a href="#">TransitionRestrictionDefImpl</a>	<a href="#">copy()</a>
<a href="#">TransitionRestrictionDef.JoinType</a>	<a href="#">getJoinType()</a>
Set	<a href="#">getSplitTransitionRefIds()</a>
<a href="#">TransitionRestrictionDef.SplitType</a>	<a href="#">getSplitType()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)  
  
[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.TransitionRestrictionDef](#)  
  
[getJoinType](#), [getSplitTransitionRefIds](#), [getSplitType](#)

## Fields

### joinType

protected org.ow2.bonita.facade.def.element.TransitionRestrictionDef.JoinType **joinType**

---

### splitType

protected org.ow2.bonita.facade.def.element.TransitionRestrictionDef.SplitType **splitType**

---

### splitTransitionRefIds

protected java.util.Set **splitTransitionRefIds**

---

## Constructors

### TransitionRestrictionDefImpl

protected **TransitionRestrictionDefImpl**()

---

### TransitionRestrictionDefImpl

public **TransitionRestrictionDefImpl**([TransitionRestrictionDef.JoinType](#) joinType,  
[TransitionRestrictionDef.SplitType](#) splitType,  
Set splitTransitionRefIds)

---

## Methods

### copy

public [TransitionRestrictionDefImpl](#) **copy**()

---

### getJoinType

public [TransitionRestrictionDef.JoinType](#) **getJoinType**()

---

### getSplitType

public [TransitionRestrictionDef.SplitType](#) **getSplitType**()

---

---

## **getSplitTransitionRefIds**

```
public Set getSplitTransitionRefIds()
```

# org.ow2.bonita.facade.def.element.impl

## Class TypeDeclarationDefImpl

java.lang.Object

└-[org.ow2.bonita.facade.def.DefImpl](#)

└-org.ow2.bonita.facade.def.element.impl.TypeDeclarationDefImpl

All Implemented Interfaces:

[TypeDeclarationDef](#)

public class **TypeDeclarationDefImpl**

extends [DefImpl](#)

implements [TypeDeclarationDef](#)

### Field Summary

protected	<a href="#">dataTypes</a>
protected	<a href="#">description</a>
protected	<a href="#">id</a>
protected	<a href="#">name</a>

### Constructor Summary

protected	<a href="#">TypeDeclarationDefImpl</a> ()
public	<a href="#">TypeDeclarationDefImpl</a> (Set dataTypes, String description, String id, String name)

### Method Summary

<a href="#">TypeDeclarationDefImpl</a>	<a href="#">copy</a> ()
Set	<a href="#">getDataTypes</a> ()
String	<a href="#">getDescription</a> ()
String	<a href="#">getId</a> ()
String	<a href="#">getName</a> ()

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.element.TypeDeclarationDef](#)

[getDataTypes](#), [getDescription](#), [getId](#), [getName](#)

## Fields

### dataTypes

protected java.util.Set **dataTypes**

### description

protected java.lang.String **description**

### id

protected java.lang.String **id**

### name

protected java.lang.String **name**

## Constructors

### TypeDeclarationDefImpl

protected **TypeDeclarationDefImpl**()

### TypeDeclarationDefImpl

```
public TypeDeclarationDefImpl(Set dataTypes,  
                               String description,  
                               String id,  
                               String name)
```

## Methods

### copy

public [TypeDeclarationDefImpl](#) **copy**()

---

## getDataTypes

```
public Set getDataTypes()
```

---

## getDescription

```
public String getDescription()
```

---

## getId

```
public String getId()
```

---

## getName

```
public String getName()
```

---

---

**Package**

**org.ow2.bonita.facade.def.majorElement**

# org.ow2.bonita.facade.def.majorElement Interface ActivityDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[ActivityDefImpl](#)

public interface **ActivityDef**  
extends [MajorElementDef](#)

## Nested Class Summary

class	<a href="#">ActivityDef.FinishMode</a> ActivityDef.FinishMode
class	<a href="#">ActivityDef.StartMode</a> ActivityDef.StartMode

## Method Summary

String	<a href="#">getBlockId()</a>
Set	<a href="#">getDataFields()</a>
Set	<a href="#">getDeadlines()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getDocumentation()</a>
<a href="#">ActivityDef.FinishMode</a>	<a href="#">getFinishMode()</a>
Set	<a href="#">getHooks()</a>
String	<a href="#">getIcon()</a>
String	<a href="#">getLimit()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getPerformer()</a>
<a href="#">PerformerAssignDef</a>	<a href="#">getPerformerAssign()</a>



String	<a href="#"><u>getPriority()</u></a>
<a href="#"><u>SimulationInformationDef</u></a>	<a href="#"><u>getSimulationInformation()</u></a>
<a href="#"><u>ActivityDef.StartMode</u></a>	<a href="#"><u>getStartMode()</u></a>
<a href="#"><u>SubFlowDef</u></a>	<a href="#"><u>getSubFlow()</u></a>
Set	<a href="#"><u>getTools()</u></a>
Set	<a href="#"><u>getTransitionRestrictions()</u></a>
boolean	<a href="#"><u>isNoImplementation()</u></a>
boolean	<a href="#"><u>isRoute()</u></a>

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Methods

### getPackageId

```
public String getPackageId()
```

### getDeploymentId

```
public String getDeploymentId()
```

### getDescription

```
public String getDescription()
```

### getLimit

```
public String getLimit()
```

### isRoute

```
public boolean isRoute()
```

---

## isNoImplementation

```
public boolean isNoImplementation()
```

---

---

## getSubFlow

```
public SubFlowDef getSubFlow()
```

---

---

## getTools

```
public Set getTools()
```

---

---

## getBlockId

```
public String getBlockId()
```

---

---

## getPerformer

```
public String getPerformer()
```

---

---

## getStartMode

```
public ActivityDef.StartMode getStartMode()
```

---

---

## getFinishMode

```
public ActivityDef.FinishMode getFinishMode()
```

---

---

## getPriority

```
public String getPriority()
```

---

---

## getDeadlines

```
public Set getDeadlines()
```

---

---

## getSimulationInformation

```
public SimulationInformationDef getSimulationInformation()
```

---

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---

## getIcon

```
public String getIcon()
```

---

## getDocumentation

```
public String getDocumentation()
```

---

## getTransitionRestrictions

```
public Set getTransitionRestrictions()
```

---

## getDataFields

```
public Set getDataFields()
```

---

## getHooks

```
public Set getHooks()
```

---

## getPerformerAssign

```
public PerformerAssignDef getPerformerAssign()
```

## org.ow2.bonita.facade.def.majorElement Class ActivityDef.StartMode

java.lang.Object

└- java.lang.Enum

└- org.ow2.bonita.facade.def.majorElement.ActivityDef.StartMode

All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **ActivityDef.StartMode**  
extends Enum

### Field Summary

public static final	<a href="#">Automatic</a>
public static final	<a href="#">Manual</a>

Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">ActivityDef.StartMode()</a>
---------	---

### Method Summary

static <a href="#">ActivityDef.StartMode</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ActivityDef.StartMode</a> []	<a href="#">values</a> ()

### Fields

#### Automatic

public static final org.ow2.bonita.facade.def.majorElement.ActivityDef.StartMode  
**Automatic**

#### Manual

public static final org.ow2.bonita.facade.def.majorElement.ActivityDef.StartMode  
**Manual**

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## Constructors

### ActivityDef.StartMode

```
private ActivityDef.StartMode()
```

## Methods

### values

```
public final static ActivityDef.StartMode\[\] values()
```

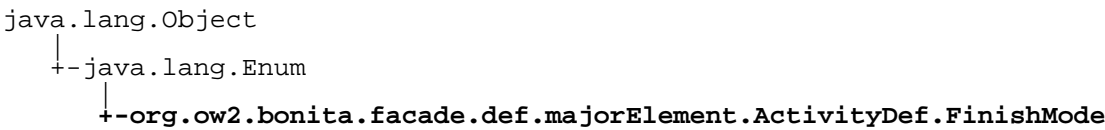
---

### valueOf

```
public static ActivityDef.StartMode valueOf(String name)
```

# org.ow2.bonita.facade.def.majorElement

## Class ActivityDef.FinishMode



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **ActivityDef.FinishMode**  
extends Enum

### Field Summary

public static final	<a href="#">Automatic</a>
public static final	<a href="#">Manual</a>

Fields inherited from class java.lang.Enum
name, ordinal

### Constructor Summary

private	<a href="#">ActivityDef.FinishMode()</a>
---------	--

### Method Summary

static <a href="#">ActivityDef.FinishMode</a> <a href="#">e</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ActivityDef.FinishMode</a> <a href="#">e[]</a>	<a href="#">values</a> ()

### Fields

#### Automatic

public static final org.ow2.bonita.facade.def.majorElement.ActivityDef.FinishMode  
**Automatic**

(continued from last page)

## Manual

```
public static final org.ow2.bonita.facade.def.majorElement.ActivityDef.FinishMode
Manual
```

## Constructors

### ActivityDef.FinishMode

```
private ActivityDef.FinishMode()
```

## Methods

### values

```
public final static ActivityDef.FinishMode\[\] values()
```

### valueOf

```
public static ActivityDef.FinishMode valueOf(String name)
```

# org.ow2.bonita.facade.def.majorElement Interface ApplicationDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[ApplicationDefImpl](#)

public interface **ApplicationDef**  
extends [MajorElementDef](#)

## Method Summary

String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
<a href="#">ExternalReferenceDef</a>	<a href="#">getExternalReference()</a>
List	<a href="#">getFormalParameters()</a>
String	<a href="#">getPackageId()</a>

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Methods

### getPackageId

```
public String getPackageId()
```

### getDeploymentId

```
public String getDeploymentId()
```

### getDescription

```
public String getDescription()
```



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## **getFormalParameters**

```
public List getFormalParameters()
```

---

## **getExternalReference**

```
public ExternalReferenceDef getExternalReference()
```

# org.ow2.bonita.facade.def.majorElement Interface DataFieldDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[DataFieldDefImpl](#)

public interface **DataFieldDef**  
extends [MajorElementDef](#)

## Method Summary

<a href="#">DataTypeDef</a>	<a href="#">getDataType()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getInitialValue()</a>
String	<a href="#">getLength()</a>
String	<a href="#">getPackageId()</a>
boolean	<a href="#">isArray()</a>

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Methods

### getPackageId

public String **getPackageId()**

### getDeploymentId

public String **getDeploymentId()**

(continued from last page)

---

## getDataType

```
public DataTypeDef getDataType()
```

---

## getInitialValue

```
public String getInitialValue()
```

---

## getLength

```
public String getLength()
```

---

## getDescription

```
public String getDescription()
```

---

## isArray

```
public boolean isArray()
```

## org.ow2.bonita.facade.def.majorElement Interface MajorElementDef

All Subinterfaces:

[ActivityDef](#), [ApplicationDef](#), [DataFieldDef](#), [PackageDef](#), [ParticipantDef](#), [ProcessDef](#), [TransitionDef](#)

public interface **MajorElementDef**  
extends

### Method Summary

String	<a href="#">getId()</a>
String	<a href="#">getName()</a>

### Methods

#### **getId**

public String **getId()**

#### **getName**

public String **getName()**

## org.ow2.bonita.facade.def.majorElement Interface PackageDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[PackageDefImpl](#)

public interface **PackageDef**

extends [MajorElementDef](#), org.ow2.bonita.services.record.Record

### Nested Class Summary

class	<a href="#">PackageDef.GraphConformance</a> PackageDef.GraphConformance
class	<a href="#">PackageDef.PublicationStatus</a> PackageDef.PublicationStatus

### Method Summary

String	<a href="#">getAuthor()</a>
Set	<a href="#">getClassDependencies()</a>
String	<a href="#">getCodepage()</a>
<a href="#">PackageDef.GraphConformance</a>	<a href="#">getConformanceClass()</a>
String	<a href="#">getCostUnit()</a>
String	<a href="#">getCountrykey()</a>
String	<a href="#">getCreated()</a>
String	<a href="#">getDeployedBy()</a>
Date	<a href="#">getDeployedDate()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getDocumentation()</a>
Set	<a href="#">getExternalPackages()</a>

Set	<a href="#"><code>getPackageDependencies()</code></a>
String	<a href="#"><code>getPriorityUnit()</code></a>
<a href="#"><code>PackageDef.PublicationStatus</code></a>	<a href="#"><code>getPublicationStatus()</code></a>
Set	<a href="#"><code>getResponsibles()</code></a>
String	<a href="#"><code>getScriptGrammar()</code></a>
String	<a href="#"><code>getScriptType()</code></a>
String	<a href="#"><code>getScriptVersion()</code></a>
Set	<a href="#"><code>getTypeDeclarations()</code></a>
String	<a href="#"><code>getUndeployedBy()</code></a>
Date	<a href="#"><code>getUndeployedDate()</code></a>
String	<a href="#"><code>getVendor()</code></a>
String	<a href="#"><code>getVersion()</code></a>
String	<a href="#"><code>getXPDLVersion()</code></a>

Methods inherited from interface [`org.ow2.bonita.facade.def.majorElement.MajorElementDef`](#)

[`getId`](#), [`getName`](#)

## Methods

### **getDeploymentId**

```
public String getDeploymentId()
```

### **getDeployedDate**

```
public Date getDeployedDate()
```

### **getUndeployedDate**

```
public Date getUndeployedDate()
```

---

### **getDeployedBy**

```
public String getDeployedBy()
```

---

### **getUndeployedBy**

```
public String getUndeployedBy()
```

---

### **getXPDLVersion**

```
public String getXPDLVersion()
```

---

### **getVendor**

```
public String getVendor()
```

---

### **getCreated**

```
public String getCreated()
```

---

### **getDescription**

```
public String getDescription()
```

---

### **getDocumentation**

```
public String getDocumentation()
```

---

### **getPriorityUnit**

```
public String getPriorityUnit()
```

---

### **getCostUnit**

```
public String getCostUnit()
```

---

### **getAuthor**

```
public String getAuthor()
```

---

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---

## getVersion

```
public String getVersion()
```

---

## getCodepage

```
public String getCodepage()
```

---

## getCountrykey

```
public String getCountrykey()
```

---

## getResponsibles

```
public Set getResponsibles()
```

---

## getPublicationStatus

```
public PackageDef.PublicationStatus getPublicationStatus()
```

---

## getConformanceClass

```
public PackageDef.GraphConformance getConformanceClass()
```

---

## getScriptType

```
public String getScriptType()
```

---

## getScriptVersion

```
public String getScriptVersion()
```

---

## getScriptGrammar

```
public String getScriptGrammar()
```

---



---

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## **getExternalPackages**

```
public Set getExternalPackages()
```

---

## **getTypeDeclarations**

```
public Set getTypeDeclarations()
```

---

## **getPackageDependencies**

```
public Set getPackageDependencies()
```

---

## **getClassDependencies**

```
public Set getClassDependencies()
```

## org.ow2.bonita.facade.def.majorElement Class PackageDef.PublicationStatus

java.lang.Object

└─ java.lang.Enum

└─ org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus

### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **PackageDef.PublicationStatus**  
extends Enum

### Field Summary

public static final	<a href="#">RELEASED</a>
public static final	<a href="#">UNDER_REVISION</a>
public static final	<a href="#">UNDER_TEST</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">PackageDef.PublicationStatus()</a>
---------	--

### Method Summary

static <a href="#">PackageDef.PublicationStatus</a>	<a href="#">valueOf</a> (String name)
static <a href="#">PackageDef.PublicationStatus[]</a>	<a href="#">values</a> ()

### Fields

#### UNDER\_REVISION

public static final  
org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus **UNDER\_REVISION**

(continued from last page)

## RELEASED

```
public static final
org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus RELEASED
```

---

## UNDER\_TEST

```
public static final
org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus UNDER_TEST
```

## Constructors

### PackageDef.PublicationStatus

```
private PackageDef.PublicationStatus()
```

## Methods

### values

```
public final static PackageDef.PublicationStatus\[\] values()
```

---

### valueOf

```
public static PackageDef.PublicationStatus valueOf(String name)
```

## org.ow2.bonita.facade.def.majorElement Class PackageDef.GraphConformance

java.lang.Object

└─ java.lang.Enum

└─ org.ow2.bonita.facade.def.majorElement.PackageDef.GraphConformance

### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **PackageDef.GraphConformance**  
extends Enum

### Field Summary

public static final	<a href="#">FULL_BLOCKED</a>
public static final	<a href="#">LOOP_BLOCKED</a>
public static final	<a href="#">NON_BLOCKED</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">PackageDef.GraphConformance()</a>
---------	---

### Method Summary

static <a href="#">PackageDef.GraphConformance</a>	<a href="#">valueOf</a> (String name)
static <a href="#">PackageDef.GraphConformance[]</a>	<a href="#">values</a> ()

### Fields

#### FULL\_BLOCKED

public static final org.ow2.bonita.facade.def.majorElement.PackageDef.GraphConformance  
**FULL\_BLOCKED**

(continued from last page)

## LOOP\_BLOCKED

```
public static final org.ow2.bonita.facade.def.majorElement.PackageDef.GraphConformance  
LOOP_BLOCKED
```

---

## NON\_BLOCKED

```
public static final org.ow2.bonita.facade.def.majorElement.PackageDef.GraphConformance  
NON_BLOCKED
```

## Constructors

### PackageDef.GraphConformance

```
private PackageDef.GraphConformance()
```

## Methods

### values

```
public final static PackageDef.GraphConformance\[\] values()
```

---

### valueOf

```
public static PackageDef.GraphConformance valueOf(String name)
```

# org.ow2.bonita.facade.def.majorElement Interface ParticipantDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[ParticipantDefImpl](#)

public interface **ParticipantDef**  
extends [MajorElementDef](#)

## Nested Class Summary

class	<a href="#">ParticipantDef.ParticipantType</a> ParticipantDef.ParticipantType
-------	--

## Method Summary

String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
<a href="#">ExternalReferenceDef</a>	<a href="#">getExternalReference()</a>
String	<a href="#">getPackageId()</a>
<a href="#">ParticipantDef.ParticipantType</a>	<a href="#">getParticipantType()</a>
<a href="#">RoleMapperDef</a>	<a href="#">getRoleMapper()</a>

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Methods

### getPackageId

public String **getPackageId()**

### getDeploymentId

public String **getDeploymentId()**

---

## getDescription

```
public String getDescription()
```

---

---

## getParticipantType

```
public ParticipantDef.ParticipantType getParticipantType()
```

---

---

## getExternalReference

```
public ExternalReferenceDef getExternalReference()
```

---

---

## getRoleMapper

```
public RoleMapperDef getRoleMapper()
```

---

## org.ow2.bonita.facade.def.majorElement Class ParticipantDef.ParticipantType

java.lang.Object

└─ java.lang.Enum

└─ org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType

### All Implemented Interfaces:

java.io.Serializable, Comparable

public static final class **ParticipantDef.ParticipantType**  
extends Enum

### Field Summary

public static final	<a href="#">HUMAN</a>
public static final	<a href="#">ORGANIZATIONAL_UNIT</a>
public static final	<a href="#">RESOURCE</a>
public static final	<a href="#">RESOURCE_SET</a>
public static final	<a href="#">ROLE</a>
public static final	<a href="#">SYSTEM</a>

### Fields inherited from class java.lang.Enum

name, ordinal

### Constructor Summary

private	<a href="#">ParticipantDef.ParticipantType()</a>
---------	--

### Method Summary

static <a href="#">ParticipantDef.ParticipantType</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ParticipantDef.ParticipantType[]</a>	<a href="#">values</a> ()

### Fields



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---

## RESOURCE\_SET

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType RESOURCE_SET
```

---

## RESOURCE

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType RESOURCE
```

---

## ROLE

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType ROLE
```

---

## ORGANIZATIONAL\_UNIT

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType
ORGANIZATIONAL_UNIT
```

---

## HUMAN

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType HUMAN
```

---

## SYSTEM

```
public static final
org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType SYSTEM
```

## Constructors

### ParticipantDef.ParticipantType

```
private ParticipantDef.ParticipantType()
```

## Methods

### values

```
public final static ParticipantDef.ParticipantType\[\] values()
```

---

## valueOf

```
public static ParticipantDef.ParticipantType valueOf(String name)
```

## org.ow2.bonita.facade.def.majorElement Interface ProcessDef

All Superinterfaces:

[MajorElementDef](#)

All Known Implementing Classes:

[ProcessDefImpl](#)

public interface **ProcessDef**  
extends [MajorElementDef](#)

### Nested Class Summary

class	<a href="#">ProcessDef.AccessLevel</a> ProcessDef.AccessLevel
class	<a href="#">ProcessDef.DurationUnit</a> ProcessDef.DurationUnit

### Method Summary

<a href="#">ProcessDef.AccessLevel</a> <u>1</u>	<a href="#">getAccessLevel()</a>
String	<a href="#">getAuthor()</a>
String	<a href="#">getCodepage()</a>
String	<a href="#">getCountrykey()</a>
String	<a href="#">getCreated()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
<a href="#">ProcessDef.DurationUnit</a> <u>it</u>	<a href="#">getDurationUnit()</a>
List	<a href="#">getFormalParameters()</a>
String	<a href="#">getLimit()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getPriority()</a>
<a href="#">PackageDef.PublicationStatus</a>	<a href="#">getPublicationStatus()</a>

Set	<a href="#"><u>getResponsibles()</u></a>
<a href="#"><u>TimeEstimationDef</u></a>	<a href="#"><u>getTimeEstimation()</u></a>
String	<a href="#"><u>getValidFrom()</u></a>
String	<a href="#"><u>getValidTo()</u></a>
String	<a href="#"><u>getVersion()</u></a>

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Methods

### getPackageId

```
public String getPackageId()
```

### getDeploymentId

```
public String getDeploymentId()
```

### getAccessLevel

```
public ProcessDef.AccessLevel getAccessLevel()
```

### getCreated

```
public String getCreated()
```

### getDescription

```
public String getDescription()
```

### getPriority

```
public String getPriority()
```

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---

## getLimit

```
public String getLimit()
```

---

---

## getValidFrom

```
public String getValidFrom()
```

---

---

## getValidTo

```
public String getValidTo()
```

---

---

## getTimeEstimation

```
public TimeEstimationDef getTimeEstimation()
```

---

---

## getDurationUnit

```
public ProcessDef.DurationUnit getDurationUnit()
```

---

---

## getAuthor

```
public String getAuthor()
```

---

---

## getVersion

```
public String getVersion()
```

---

---

## getCodepage

```
public String getCodepage()
```

---

---

## getCountrykey

```
public String getCountrykey()
```

---

---

## getResponsibles

```
public Set getResponsibles()
```

---

(continued from last page)

---

## getPublicationStatus

```
public PackageDef.PublicationStatus getPublicationStatus()
```

---

## getFormalParameters

```
public List getFormalParameters()
```

# org.ow2.bonita.facade.def.majorElement

## Class ProcessDef.DurationUnit



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **ProcessDef.DurationUnit**  
extends Enum

### Field Summary

public static final	<a href="#">D</a>
public static final	<a href="#">h</a>
public static final	<a href="#">m</a>
public static final	<a href="#">M</a>
public static final	<a href="#">s</a>
public static final	<a href="#">y</a>

Fields inherited from class java.lang.Enum
name, ordinal

### Constructor Summary

private	<a href="#">ProcessDef.DurationUnit()</a>
---------	---

### Method Summary

static <a href="#">ProcessDef.DurationUnit</a> <a href="#">it</a>	<a href="#">valueOf</a> (String name)
static <a href="#">ProcessDef.DurationUnit</a> <a href="#">it[]</a>	<a href="#">values</a> ()

### Fields

(continued from last page)

**Y**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit Y
```

**M**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit M
```

**D**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit D
```

**h**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit h
```

**m**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit m
```

**s**

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit s
```

## Constructors

### ProcessDef.DurationUnit

```
private ProcessDef.DurationUnit()
```

## Methods

### values

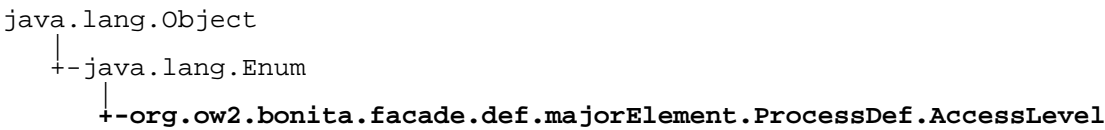
```
public final static ProcessDef.DurationUnit\[\] values()
```

### valueOf

```
public static ProcessDef.DurationUnit valueOf(String name)
```



# org.ow2.bonita.facade.def.majorElement Class ProcessDef.AccessLevel



All Implemented Interfaces:  
java.io.Serializable, Comparable

public static final class **ProcessDef.AccessLevel**  
extends Enum

## Field Summary

public static final	<a href="#">PRIVATE</a>
public static final	<a href="#">PUBLIC</a>

Fields inherited from class java.lang.Enum
name, ordinal

## Constructor Summary

private	<a href="#">ProcessDef.AccessLevel()</a>
---------	--

## Method Summary

static <a href="#">ProcessDef.AccessLevel</a> I	<a href="#">valueOf</a> (String name)
static <a href="#">ProcessDef.AccessLevel</a> I[]	<a href="#">values</a> ()

## Fields

### PUBLIC

public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.AccessLevel  
**PUBLIC**

(continued from last page)

## PRIVATE

```
public static final org.ow2.bonita.facade.def.majorElement.ProcessDef.AccessLevel  
PRIVATE
```

## Constructors

### ProcessDef.AccessLevel

```
private ProcessDef.AccessLevel()
```

## Methods

### values

```
public final static ProcessDef.AccessLevel\[\] values()
```

### valueOf

```
public static ProcessDef.AccessLevel valueOf(String name)
```

# org.ow2.bonita.facade.def.majorElement Interface TransitionDef

All Superinterfaces:  
[MajorElementDef](#)

All Known Implementing Classes:  
[TransitionDefImpl](#)

public interface **TransitionDef**  
extends [MajorElementDef](#)

Method Summary	
<a href="#">ConditionDef</a>	<a href="#">getCondition()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getFrom()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getTo()</a>
Methods inherited from interface <a href="#">org.ow2.bonita.facade.def.majorElement.MajorElementDef</a>	
<a href="#">getId</a> , <a href="#">getName</a>	

## Methods

**getPackageId**  
public String **getPackageId()**

**getDeploymentId**  
public String **getDeploymentId()**

**getFrom**  
public String **getFrom()**

---

## getTo

```
public String getTo()
```

---

## getCondition

```
public ConditionDef getCondition()
```

---

## getDescription

```
public String getDescription()
```

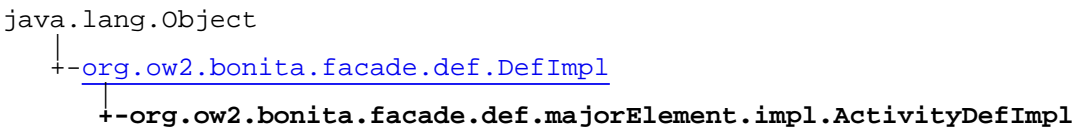
---

Package

**org.ow2.bonita.facade.def.majorElement  
.impl**

# org.ow2.bonita.facade.def.majorElement.impl

## Class ActivityDefImpl



All Implemented Interfaces:  
[ActivityDef](#)

public class **ActivityDefImpl**  
extends [DefImpl](#)  
implements [ActivityDef](#)

Field Summary	
protected	<a href="#">blockId</a>
protected	<a href="#">dataFields</a>
protected	<a href="#">deadlines</a>
protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">documentation</a>
protected	<a href="#">finishMode</a>
protected	<a href="#">hooks</a>
protected	<a href="#">icon</a>
protected	<a href="#">id</a>
protected	<a href="#">limit</a>
protected	<a href="#">name</a>
protected	<a href="#">noImplementation</a>
protected	<a href="#">packageId</a>
protected	<a href="#">performer</a>

protected	<a href="#">performerAssign</a>
protected	<a href="#">priority</a>
protected	<a href="#">route</a>
protected	<a href="#">simulationInformation</a>
protected	<a href="#">startMode</a>
protected	<a href="#">subFlow</a>
protected	<a href="#">tools</a>
protected	<a href="#">transitionRestrictions</a>

## Constructor Summary

protected	<a href="#">ActivityDefImpl()</a>
public	<a href="#">ActivityDefImpl</a> (String packageId, String deploymentId, String blockId, Set deadlines, String description, String documentation, <a href="#">ActivityDef.FinishMode</a> finishMode, String icon, String id, String limit, String name, String performer, String priority, <a href="#">SimulationInformationDefImpl</a> simulationInformation, <a href="#">ActivityDef.StartMode</a> startMode, <a href="#">SubFlowDefImpl</a> subFlow, Set tools, Set transitionRestrictions, boolean noImplementation, boolean route, Set hooks, <a href="#">PerformerAssignDefImpl</a> performerAssign, Set dataFields)

## Method Summary

<a href="#">ActivityDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getBlockId()</a>
Set	<a href="#">getDataFields()</a>
Set	<a href="#">getDeadlines()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getDocumentation()</a>
<a href="#">ActivityDef.FinishMode</a>	<a href="#">getFinishMode()</a>
Set	<a href="#">getHooks()</a>
String	<a href="#">getIcon()</a>

String	<a href="#">getId()</a>
String	<a href="#">getLimit()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getPerformer()</a>
<a href="#">PerformerAssignDefImpl</a>	<a href="#">getPerformerAssign()</a>
String	<a href="#">getPriority()</a>
<a href="#">SimulationInformationDefImpl</a>	<a href="#">getSimulationInformation()</a>
<a href="#">ActivityDef.StartMode</a>	<a href="#">getStartMode()</a>
<a href="#">SubFlowDefImpl</a>	<a href="#">getSubFlow()</a>
Set	<a href="#">getTools()</a>
Set	<a href="#">getTransitionRestrictions()</a>
boolean	<a href="#">isNoImplementation()</a>
boolean	<a href="#">isRoute()</a>

#### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.ActivityDef](#)

[getBlockId](#), [getDataFields](#), [getDeadlines](#), [getDeploymentId](#), [getDescription](#), [getDocumentation](#), [getFinishMode](#), [getHooks](#), [getIcon](#), [getLimit](#), [getPackageId](#), [getPerformer](#), [getPerformerAssign](#), [getPriority](#), [getSimulationInformation](#), [getStartMode](#), [getSubFlow](#), [getTools](#), [getTransitionRestrictions](#), [isNoImplementation](#), [isRoute](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### packageId

protected java.lang.String **packageId**



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---

## deploymentId

protected java.lang.String **deploymentId**

---

---

## blockId

protected java.lang.String **blockId**

---

---

## deadlines

protected java.util.Set **deadlines**

---

---

## description

protected java.lang.String **description**

---

---

## documentation

protected java.lang.String **documentation**

---

---

## finishMode

protected org.ow2.bonita.facade.def.majorElement.ActivityDef.FinishMode **finishMode**

---

---

## icon

protected java.lang.String **icon**

---

---

## id

protected java.lang.String **id**

---

---

## limit

protected java.lang.String **limit**

---

(continued from last page)

---

## name

protected java.lang.String **name**

---

## performer

protected java.lang.String **performer**

---

## priority

protected java.lang.String **priority**

---

## simulationInformation

protected org.ow2.bonita.facade.def.element.impl.SimulationInformationDefImpl  
**simulationInformation**

---

## startMode

protected org.ow2.bonita.facade.def.majorElement.ActivityDef.StartMode **startMode**

---

## subFlow

protected org.ow2.bonita.facade.def.element.impl.SubFlowDefImpl **subFlow**

---

## tools

protected java.util.Set **tools**

---

## transitionRestrictions

protected java.util.Set **transitionRestrictions**

---

## noImplementation

protected boolean **noImplementation**

---

## route

protected boolean **route**

---

(continued from last page)

---

## hooks

```
protected java.util.Set hooks
```

---

## performerAssign

```
protected org.ow2.bonita.facade.def.element.impl.PerformerAssignDefImpl  
performerAssign
```

---

## dataFields

```
protected java.util.Set dataFields
```

## Constructors

### ActivityDefImpl

```
protected ActivityDefImpl()
```

---

### ActivityDefImpl

```
public ActivityDefImpl(String packageId,  
                      String deploymentId,  
                      String blockId,  
                      Set deadlines,  
                      String description,  
                      String documentation,  
                      ActivityDef.FinishMode finishMode,  
                      String icon,  
                      String id,  
                      String limit,  
                      String name,  
                      String performer,  
                      String priority,  
                      SimulationInformationDefImpl simulationInformation,  
                      ActivityDef.StartMode startMode,  
                      SubFlowDefImpl subFlow,  
                      Set tools,  
                      Set transitionRestrictions,  
                      boolean noImplementation,  
                      boolean route,  
                      Set hooks,  
                      PerformerAssignDefImpl performerAssign,  
                      Set dataFields)
```

## Methods

(continued from last page)

---

## copy

```
public ActivityDefImpl copy()
```

---

## getPackageId

```
public String getPackageId()
```

---

## getDeploymentId

```
public String getDeploymentId()
```

---

## getBlockId

```
public String getBlockId()
```

---

## getDeadlines

```
public Set getDeadlines()
```

---

## getDescription

```
public String getDescription()
```

---

## getDocumentation

```
public String getDocumentation()
```

---

## getFinishMode

```
public ActivityDef.FinishMode getFinishMode()
```

---

## getIcon

```
public String getIcon()
```

---

## getId

```
public String getId()
```

---

(continued from last page)

---

## getLimit

```
public String getLimit()
```

---

---

## getName

```
public String getName()
```

---

---

## getPerformer

```
public String getPerformer()
```

---

---

## getPriority

```
public String getPriority()
```

---

---

## getSimulationInformation

```
public SimulationInformationDefImpl getSimulationInformation()
```

---

---

## getStartMode

```
public ActivityDef.StartMode getStartMode()
```

---

---

## getSubFlow

```
public SubFlowDefImpl getSubFlow()
```

---

---

## getTools

```
public Set getTools()
```

---

---

## getTransitionRestrictions

```
public Set getTransitionRestrictions()
```

---

(continued from last page)

---

## isNoImplementation

```
public boolean isNoImplementation()
```

---

## isRoute

```
public boolean isRoute()
```

---

## getHooks

```
public Set getHooks()
```

---

## getPerformerAssign

```
public PerformerAssignDefImpl getPerformerAssign()
```

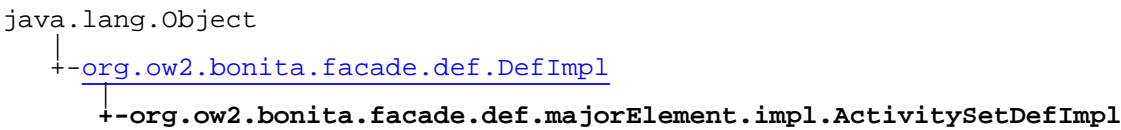
---

## getDataFields

```
public Set getDataFields()
```

---

# org.ow2.bonita.facade.def.majorElement.impl Class ActivitySetDefImpl



public class **ActivitySetDefImpl**  
extends [DefImpl](#)

Field Summary	
protected	<a href="#">activities</a>
protected	<a href="#">id</a>
protected	<a href="#">transitions</a>

Constructor Summary	
protected	<a href="#">ActivitySetDefImpl()</a>
public	<a href="#">ActivitySetDefImpl</a> (String id, Set activities, Set transitions)

Method Summary	
<a href="#">ActivitySetDefImpl</a>	<a href="#">copy()</a>
Set	<a href="#">getActivities()</a>
String	<a href="#">getId()</a>
Set	<a href="#">getTransitions()</a>

Methods inherited from class <a href="#">org.ow2.bonita.facade.def.DefImpl</a>	
<a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a> , <a href="#">copy</a>	

## Fields

**id**  
protected java.lang.String **id**

---

## activities

protected java.util.Set **activities**

---

## transitions

protected java.util.Set **transitions**

---

## Constructors

### ActivitySetDefImpl

protected **ActivitySetDefImpl**()

---

### ActivitySetDefImpl

```
public ActivitySetDefImpl(String id,  
                           Set activities,  
                           Set transitions)
```

---

## Methods

### copy

public [ActivitySetDefImpl](#) **copy**()

---

### getId

public String **getId**()

---

### getActivities

public Set **getActivities**()

---

### getTransitions

public Set **getTransitions**()

---



## org.ow2.bonita.facade.def.majorElement.impl

### Class ApplicationDefImpl

java.lang.Object

└-[org.ow2.bonita.facade.def.DefImpl](#)

└-org.ow2.bonita.facade.def.majorElement.impl.ApplicationDefImpl

All Implemented Interfaces:

[ApplicationDef](#)

public class **ApplicationDefImpl**

extends [DefImpl](#)

implements [ApplicationDef](#)

#### Field Summary

protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">externalReference</a>
protected	<a href="#">formalParameters</a>
protected	<a href="#">id</a>
protected	<a href="#">name</a>
protected	<a href="#">packageId</a>

#### Constructor Summary

protected	<a href="#">ApplicationDefImpl()</a>
public	<a href="#">ApplicationDefImpl</a> (String packageId, String deploymentId, String description, <a href="#">ExternalReferenceDefImpl</a> externalReference, List formalParameters, String id, String name)

#### Method Summary

<a href="#">ApplicationDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>

<a href="#">ExternalReferenceDefImpl</a>	<a href="#">getExternalReference()</a>
List	<a href="#">getFormalParameters()</a>
String	<a href="#">getId()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.ApplicationDef](#)

[getDeploymentId](#), [getDescription](#), [getExternalReference](#), [getFormalParameters](#), [getPackageId](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### packageId

protected java.lang.String **packageId**

### deploymentId

protected java.lang.String **deploymentId**

### description

protected java.lang.String **description**

### externalReference

protected org.ow2.bonita.facade.def.element.impl.ExternalReferenceDefImpl  
**externalReference**

### formalParameters

protected java.util.List **formalParameters**

(continued from last page)

---

**id**

```
protected java.lang.String id
```

---

**name**

```
protected java.lang.String name
```

---

## Constructors

**ApplicationDefImpl**

```
protected ApplicationDefImpl()
```

---

**ApplicationDefImpl**

```
public ApplicationDefImpl(String packageId,  
                          String deploymentId,  
                          String description,  
                          ExternalReferenceDefImpl externalReference,  
                          List formalParameters,  
                          String id,  
                          String name)
```

## Methods

**copy**

```
public ApplicationDefImpl copy()
```

---

**getPackageId**

```
public String getPackageId()
```

---

**getDeploymentId**

```
public String getDeploymentId()
```

---

**getDescription**

```
public String getDescription()
```

---

(continued from last page)

---

## getExternalReference

```
public ExternalReferenceDefImpl getExternalReference()
```

---

## getFormalParameters

```
public List getFormalParameters()
```

---

## getId

```
public String getId()
```

---

## getName

```
public String getName()
```

## org.ow2.bonita.facade.def.majorElement.impl Class DataFieldDefImpl

java.lang.Object

```

+--org.ow2.bonita.facade.def.DefImpl
    +--org.ow2.bonita.facade.def.majorElement.impl.DataFieldDefImpl
  
```

All Implemented Interfaces:

[DataFieldDef](#)

public class **DataFieldDefImpl**

extends [DefImpl](#)

implements [DataFieldDef](#)

### Field Summary

protected	<a href="#">activityDataField</a>
protected	<a href="#">array</a>
protected	<a href="#">dataType</a>
protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">id</a>
protected	<a href="#">initialValue</a>
protected	<a href="#">length</a>
protected	<a href="#">name</a>
protected	<a href="#">packageId</a>

### Constructor Summary

protected	<a href="#">DataFieldDefImpl()</a>
public	<a href="#">DataFieldDefImpl</a> (String packageId, String deploymentId, <a href="#">DataTypeDefImpl</a> dataType, String description, String id, String initialValue, String length, String name, boolean array, boolean activityDataField)

### Method Summary

<a href="#">DataFieldDefImpl</a>	<a href="#">copy()</a>
<a href="#">DataTypeDefImpl</a>	<a href="#">getDataType()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getId()</a>
String	<a href="#">getInitialValue()</a>
String	<a href="#">getLength()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>
boolean	<a href="#">isActivityDataField()</a>
boolean	<a href="#">isArray()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.DataFieldDef](#)

[getDataType](#), [getDeploymentId](#), [getDescription](#), [getInitialValue](#), [getLength](#), [getPackageId](#), [isArray](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### packageId

protected java.lang.String **packageId**

### deploymentId

protected java.lang.String **deploymentId**

(continued from last page)

---

## dataType

protected org.ow2.bonita.facade.def.dataType.impl.DataTypeDefImpl **dataType**

---

## description

protected java.lang.String **description**

---

## id

protected java.lang.String **id**

---

## initialValue

protected java.lang.String **initialValue**

---

## length

protected java.lang.String **length**

---

## name

protected java.lang.String **name**

---

## array

protected boolean **array**

---

## activityDataField

protected boolean **activityDataField**

---

## Constructors

### DataFieldDefImpl

protected **DataFieldDefImpl()**

---

(continued from last page)

## DataFieldDefImpl

```
public DataFieldDefImpl(String packageId,  
                        String deploymentId,  
                        DataTypeDefImpl dataType,  
                        String description,  
                        String id,  
                        String initialValue,  
                        String length,  
                        String name,  
                        boolean array,  
                        boolean activityDataField)
```

## Methods

### copy

```
public DataFieldDefImpl copy()
```

### getPackageId

```
public String getPackageId()
```

### getDeploymentId

```
public String getDeploymentId()
```

### getDataType

```
public DataTypeDefImpl getDataType()
```

### getDescription

```
public String getDescription()
```

### getId

```
public String getId()
```

### getInitialValue

```
public String getInitialValue()
```



---

## getLength

```
public String getLength()
```

---

## getName

```
public String getName()
```

---

## isArray

```
public boolean isArray()
```

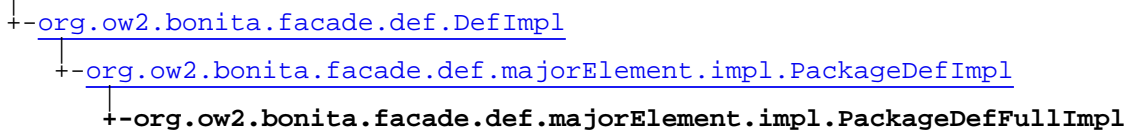
---

## isActivityDataField

```
public boolean isActivityDataField()
```

## org.ow2.bonita.facade.def.majorElement.impl Class PackageDefFullImpl

java.lang.Object



All Implemented Interfaces:

[PackageDef](#)

public class **PackageDefFullImpl**  
extends [PackageDefImpl](#)

### Field Summary

protected	<a href="#">applications</a>
protected	<a href="#">dataFields</a>
protected	<a href="#">dbid</a>
protected	<a href="#">participants</a>
protected	<a href="#">processes</a>

### Fields inherited from class [org.ow2.bonita.facade.def.majorElement.impl.PackageDefImpl](#)

[author](#), [classDependencies](#), [codepage](#), [conformanceClass](#), [costUnit](#), [countrykey](#), [created](#), [deployedBy](#), [deployedDate](#), [deploymentId](#), [description](#), [documentation](#), [externalPackages](#), [id](#), [name](#), [packageDependencies](#), [priorityUnit](#), [publicationStatus](#), [responsibles](#), [scriptGrammar](#), [scriptType](#), [scriptVersion](#), [typeDeclarations](#), [undeployedBy](#), [undeployedDate](#), [vendor](#), [version](#), [xpdlVersion](#)

### Constructor Summary

protected	<a href="#">PackageDefFullImpl()</a>
public	<a href="#">PackageDefFullImpl(String id)</a>
public	<a href="#">PackageDefFullImpl(String deploymentId, Date deployedDate, String deployedBy, String id, String name, String author, Set classDependencies, String codepage, <a href="#">PackageDef.GraphConformance</a> conformanceClass, String costUnit, String countrykey, String created, String description, String documentation, Set externalPackages, Set packageDependencies, String priorityUnit, <a href="#">PackageDef.PublicationStatus</a> publicationStatus, Set responsibles, String scriptType, String scriptVersion, String scriptGrammar, Set typeDeclarations, String vendor, String version, String xpdlVersion, Set applications, Set dataFields, Set processes)</a>

## Method Summary

Set	<a href="#"><u>getApplications()</u></a>
Set	<a href="#"><u>getDataFields()</u></a>
Set	<a href="#"><u>getParticipants()</u></a>
Set	<a href="#"><u>getProcesses()</u></a>
void	<a href="#"><u>setUndeployedBy</u></a> (String undeployedBy)
void	<a href="#"><u>setUndeployedDate</u></a> (Date undeployedDate)

### Methods inherited from class [org.ow2.bonita.facade.def.majorElement.impl.PackageDefImpl](#)

[copy](#), [getAuthor](#), [getClassDependencies](#), [getCodepage](#), [getConformanceClass](#), [getCostUnit](#), [getCountrykey](#), [getCreated](#), [getDeployedBy](#), [getDeployedDate](#), [getDeploymentId](#), [getDescription](#), [getDocumentation](#), [getExternalPackages](#), [getId](#), [getName](#), [getPackageDependencies](#), [getPriorityUnit](#), [getPublicationStatus](#), [getResponsibles](#), [getScriptGrammar](#), [getScriptType](#), [getScriptVersion](#), [getTypeDeclarations](#), [getUndeployedBy](#), [getUndeployedDate](#), [getVendor](#), [getVersion](#), [getXpdlVersion](#), [getXPDLVersion](#)

### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.PackageDef](#)

[getAuthor](#), [getClassDependencies](#), [getCodepage](#), [getConformanceClass](#), [getCostUnit](#), [getCountrykey](#), [getCreated](#), [getDeployedBy](#), [getDeployedDate](#), [getDeploymentId](#), [getDescription](#), [getDocumentation](#), [getExternalPackages](#), [getPackageDependencies](#), [getPriorityUnit](#), [getPublicationStatus](#), [getResponsibles](#), [getScriptGrammar](#), [getScriptType](#), [getScriptVersion](#), [getTypeDeclarations](#), [getUndeployedBy](#), [getUndeployedDate](#), [getVendor](#), [getVersion](#), [getXPDLVersion](#)

### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### dbid

protected long **dbid**

### participants

protected java.util.Set **participants**

(continued from last page)

---

## applications

protected java.util.Set **applications**

---

## dataFields

protected java.util.Set **dataFields**

---

## processes

protected java.util.Set **processes**

## Constructors

### PackageDefFullImpl

protected **PackageDefFullImpl**()

---

### PackageDefFullImpl

public **PackageDefFullImpl**(String id)

---

(continued from last page)

## PackageDefFullImpl

```
public PackageDefFullImpl(String deploymentId,
    Date deployedDate,
    String deployedBy,
    String id,
    String name,
    String author,
    Set classDependencies,
    String codepage,
    PackageDef.GraphConformance conformanceClass,
    String costUnit,
    String countrykey,
    String created,
    String description,
    String documentation,
    Set externalPackages,
    Set packageDependencies,
    String priorityUnit,
    PackageDef.PublicationStatus publicationStatus,
    Set responsables,
    String scriptType,
    String scriptVersion,
    String scriptGrammar,
    Set typeDeclarations,
    String vendor,
    String version,
    String xpdlVersion,
    Set participants,
    Set applications,
    Set dataFields,
    Set processes)
```

## Methods

### getParticipants

```
public Set getParticipants()
```

### getApplications

```
public Set getApplications()
```

### getDataFields

```
public Set getDataFields()
```

### getProcesses

```
public Set getProcesses()
```

(continued from last page)

## **setUndeployedDate**

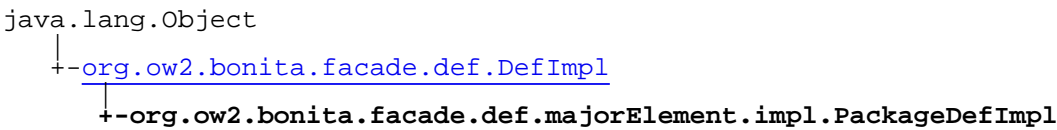
```
public void setUndeployedDate(Date undeployedDate)
```

---

## **setUndeployedBy**

```
public void setUndeployedBy(String undeployedBy)
```

# org.ow2.bonita.facade.def.majorElement.impl Class PackageDefImpl



All Implemented Interfaces:  
[PackageDef](#)

Direct Known Subclasses:  
[PackageDefFullImpl](#)

public class **PackageDefImpl**  
extends [DefImpl](#)  
implements [PackageDef](#)

Field Summary		
protected		<a href="#">author</a>
protected		<a href="#">classDependencies</a>
protected		<a href="#">codepage</a>
protected		<a href="#">conformanceClass</a>
protected		<a href="#">costUnit</a>
protected		<a href="#">countrykey</a>
protected		<a href="#">created</a>
protected		<a href="#">deployedBy</a>
protected		<a href="#">deployedDate</a>
protected		<a href="#">deploymentId</a>
protected		<a href="#">description</a>
protected		<a href="#">documentation</a>
protected		<a href="#">externalPackages</a>
protected		<a href="#">id</a>

protected	<a href="#">name</a>
protected	<a href="#">packageDependencies</a>
protected	<a href="#">priorityUnit</a>
protected	<a href="#">publicationStatus</a>
protected	<a href="#">responsibles</a>
protected	<a href="#">scriptGrammar</a>
protected	<a href="#">scriptType</a>
protected	<a href="#">scriptVersion</a>
protected	<a href="#">typeDeclarations</a>
protected	<a href="#">undeployedBy</a>
protected	<a href="#">undeployedDate</a>
protected	<a href="#">vendor</a>
protected	<a href="#">version</a>
protected	<a href="#">xpdlVersion</a>

## Constructor Summary

protected	<a href="#">PackageDefImpl</a> ()
	<a href="#">PackageDefImpl</a> (String id)
protected	<a href="#">PackageDefImpl</a> (String deploymentId, Date deployedDate, String deployedBy, Date undeployedDate, String undeployedBy, String id, String name, String author, Set classDependencies, String codepage, <a href="#">PackageDef.GraphConformance</a> conformanceClass, String costUnit, String countrykey, String created, String description, String documentation, Set externalPackages, Set packageDependencies, String priorityUnit, <a href="#">PackageDef.PublicationStatus</a> publicationStatus, Set responsables, String scriptType, String scriptVersion, String scriptGrammar, Set typeDeclarations, String vendor, String version, String xpdlVersion)

## Method Summary

<a href="#">PackageDefImpl</a>	<a href="#">copy</a> ()
String	<a href="#">getAuthor</a> ()



Set	<a href="#"><u>getClassDependencies()</u></a>
String	<a href="#"><u>getCodepage()</u></a>
<a href="#"><u>PackageDef.GraphConformance</u></a>	<a href="#"><u>getConformanceClass()</u></a>
String	<a href="#"><u>getCostUnit()</u></a>
String	<a href="#"><u>getCountrykey()</u></a>
String	<a href="#"><u>getCreated()</u></a>
String	<a href="#"><u>getDeployedBy()</u></a>
Date	<a href="#"><u>getDeployedDate()</u></a>
String	<a href="#"><u>getDeploymentId()</u></a>
String	<a href="#"><u>getDescription()</u></a>
String	<a href="#"><u>getDocumentation()</u></a>
Set	<a href="#"><u>getExternalPackages()</u></a>
String	<a href="#"><u>getId()</u></a>
String	<a href="#"><u>getName()</u></a>
Set	<a href="#"><u>getPackageDependencies()</u></a>
String	<a href="#"><u>getPriorityUnit()</u></a>
<a href="#"><u>PackageDef.PublicationStatus</u></a>	<a href="#"><u>getPublicationStatus()</u></a>
Set	<a href="#"><u>getResponsibles()</u></a>
String	<a href="#"><u>getScriptGrammar()</u></a>
String	<a href="#"><u>getScriptType()</u></a>
String	<a href="#"><u>getScriptVersion()</u></a>
Set	<a href="#"><u>getTypeDeclarations()</u></a>
String	<a href="#"><u>getUndeployedBy()</u></a>
Date	<a href="#"><u>getUndeployedDate()</u></a>

String	<a href="#">getVendor()</a>
String	<a href="#">getVersion()</a>
String	<a href="#">getXpdlVersion()</a>
String	<a href="#">getXPDLVersion()</a>

#### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.PackageDef](#)

[getAuthor](#), [getClassDependencies](#), [getCodepage](#), [getConformanceClass](#), [getCostUnit](#), [getCountrykey](#), [getCreated](#), [getDeployedBy](#), [getDeployedDate](#), [getDeploymentId](#), [getDescription](#), [getDocumentation](#), [getExternalPackages](#), [getPackageDependencies](#), [getPriorityUnit](#), [getPublicationStatus](#), [getResponsibles](#), [getScriptGrammar](#), [getScriptType](#), [getScriptVersion](#), [getTypeDeclarations](#), [getUndeployedBy](#), [getUndeployedDate](#), [getVendor](#), [getVersion](#), [getXPDLVersion](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### deploymentId

protected java.lang.String **deploymentId**

### deployedDate

protected java.util.Date **deployedDate**

### undeployedDate

protected java.util.Date **undeployedDate**

### deployedBy

protected java.lang.String **deployedBy**

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---

## undeployedBy

protected java.lang.String **undeployedBy**

---

## id

protected java.lang.String **id**

---

## name

protected java.lang.String **name**

---

## author

protected java.lang.String **author**

---

## classDependencies

protected java.util.Set **classDependencies**

---

## codepage

protected java.lang.String **codepage**

---

## conformanceClass

protected org.ow2.bonita.facade.def.majorElement.PackageDef.GraphConformance  
**conformanceClass**

---

## costUnit

protected java.lang.String **costUnit**

---

## countrykey

protected java.lang.String **countrykey**

---

## created

protected java.lang.String **created**

---

(continued from last page)

---

## description

protected java.lang.String **description**

---

## documentation

protected java.lang.String **documentation**

---

## externalPackages

protected java.util.Set **externalPackages**

---

## packageDependencies

protected java.util.Set **packageDependencies**

---

## priorityUnit

protected java.lang.String **priorityUnit**

---

## publicationStatus

protected org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus  
**publicationStatus**

---

## responsibles

protected java.util.Set **responsibles**

---

## scriptType

protected java.lang.String **scriptType**

---

## scriptVersion

protected java.lang.String **scriptVersion**

---

(continued from last page)

---

## scriptGrammar

protected java.lang.String **scriptGrammar**

---

## typeDeclarations

protected java.util.Set **typeDeclarations**

---

## vendor

protected java.lang.String **vendor**

---

## version

protected java.lang.String **version**

---

## xpdlVersion

protected java.lang.String **xpdlVersion**

---

## Constructors

### PackageDefImpl

protected **PackageDefImpl**()

---

### PackageDefImpl

**PackageDefImpl**(String id)

---

(continued from last page)

## PackageDefImpl

```
protected PackageDefImpl(String deploymentId,
    Date deployedDate,
    String deployedBy,
    Date undeployedDate,
    String undeployedBy,
    String id,
    String name,
    String author,
    Set classDependencies,
    String codepage,
    PackageDef.GraphConformance conformanceClass,
    String costUnit,
    String countrykey,
    String created,
    String description,
    String documentation,
    Set externalPackages,
    Set packageDependencies,
    String priorityUnit,
    PackageDef.PublicationStatus publicationStatus,
    Set responsables,
    String scriptType,
    String scriptVersion,
    String scriptGrammar,
    Set typeDeclarations,
    String vendor,
    String version,
    String xpdlVersion)
```

## Methods

### copy

```
public PackageDefImpl copy()
```

### getId

```
public String getId()
```

### getName

```
public String getName()
```

### getAuthor

```
public String getAuthor()
```

### getCodepage

```
public String getCodepage()
```

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---

## getConformanceClass

```
public PackageDef.GraphConformance getConformanceClass()
```

---

## getCostUnit

```
public String getCostUnit()
```

---

## getCountrykey

```
public String getCountrykey()
```

---

## getCreated

```
public String getCreated()
```

---

## getDescription

```
public String getDescription()
```

---

## getDocumentation

```
public String getDocumentation()
```

---

## getExternalPackages

```
public Set getExternalPackages()
```

---

## getPriorityUnit

```
public String getPriorityUnit()
```

---

## getPublicationStatus

```
public PackageDef.PublicationStatus getPublicationStatus()
```

---

(continued from last page)

---

## getResponsibles

```
public Set getResponsibles()
```

---

---

## getScriptType

```
public String getScriptType()
```

---

---

## getScriptVersion

```
public String getScriptVersion()
```

---

---

## getScriptGrammar

```
public String getScriptGrammar()
```

---

---

## getTypeDeclarations

```
public Set getTypeDeclarations()
```

---

---

## getVendor

```
public String getVendor()
```

---

---

## getVersion

```
public String getVersion()
```

---

---

## getXPDLVersion

```
public String getXPDLVersion()
```

---

---

## getClassDependencies

```
public Set getClassDependencies()
```

---

---

## getPackageDependencies

```
public Set getPackageDependencies()
```

---



---

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---

---

## **getXpdlVersion**

```
public String getXpdlVersion()
```

---

---

## **getDeploymentId**

```
public String getDeploymentId()
```

---

---

## **getDeployedDate**

```
public Date getDeployedDate()
```

---

---

## **getDeployedBy**

```
public String getDeployedBy()
```

---

---

## **getUndeployedDate**

```
public Date getUndeployedDate()
```

---

---

## **getUndeployedBy**

```
public String getUndeployedBy()
```

---

# org.ow2.bonita.facade.def.majorElement.impl

## Class ParticipantDefImpl

java.lang.Object

└─ [org.ow2.bonita.facade.def.DefImpl](#)

└─ [org.ow2.bonita.facade.def.majorElement.impl.ParticipantDefImpl](#)

All Implemented Interfaces:

[ParticipantDef](#)

public class **ParticipantDefImpl**

extends [DefImpl](#)

implements [ParticipantDef](#)

Field Summary	
protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">externalReference</a>
protected	<a href="#">id</a>
protected	<a href="#">name</a>
protected	<a href="#">packageId</a>
protected	<a href="#">participantType</a>
protected	<a href="#">roleMapper</a>

Constructor Summary	
protected	<a href="#">ParticipantDefImpl()</a>
public	<a href="#">ParticipantDefImpl</a> (String packageId, String deploymentId, String description, <a href="#">RoleMapperDefImpl</a> roleMapper, <a href="#">ExternalReferenceDefImpl</a> externalReference, String id, <a href="#">ParticipantDef.ParticipantType</a> participantType, String name)

Method Summary	
<a href="#">ParticipantDefImpl</a>	<a href="#">copy()</a>
String	<a href="#">getDeploymentId()</a>

String	<a href="#">getDescription()</a>
<a href="#">ExternalReferenceDefImpl</a>	<a href="#">getExternalReference()</a>
String	<a href="#">getId()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>
<a href="#">ParticipantDef.ParticipantType</a>	<a href="#">getParticipantType()</a>
<a href="#">RoleMapperDefImpl</a>	<a href="#">getRoleMapper()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.ParticipantDef](#)

[getDeploymentId](#), [getDescription](#), [getExternalReference](#), [getPackageId](#), [getParticipantType](#), [getRoleMapper](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### packageId

protected java.lang.String **packageId**

### deploymentId

protected java.lang.String **deploymentId**

### description

protected java.lang.String **description**

### externalReference

protected org.ow2.bonita.facade.def.element.impl.ExternalReferenceDefImpl **externalReference**

(continued from last page)

---

## id

protected java.lang.String **id**

---

## participantType

protected org.ow2.bonita.facade.def.majorElement.ParticipantDef.ParticipantType  
**participantType**

---

## name

protected java.lang.String **name**

---

## roleMapper

protected org.ow2.bonita.facade.def.element.impl.RoleMapperDefImpl **roleMapper**

## Constructors

### ParticipantDefImpl

protected **ParticipantDefImpl**()

---

### ParticipantDefImpl

```
public ParticipantDefImpl(String packageId,  
                          String deploymentId,  
                          String description,  
                          RoleMapperDefImpl roleMapper,  
                          ExternalReferenceDefImpl externalReference,  
                          String id,  
                          ParticipantDef.ParticipantType participantType,  
                          String name)
```

## Methods

### copy

public [ParticipantDefImpl](#) **copy**()

---

### getPackageId

public String **getPackageId**()

(continued from last page)

---

## getDeploymentId

```
public String getDeploymentId()
```

---

## getDescription

```
public String getDescription()
```

---

## getExternalReference

```
public ExternalReferenceDefImpl getExternalReference()
```

---

## getId

```
public String getId()
```

---

## getParticipantType

```
public ParticipantDef.ParticipantType getParticipantType()
```

---

## getName

```
public String getName()
```

---

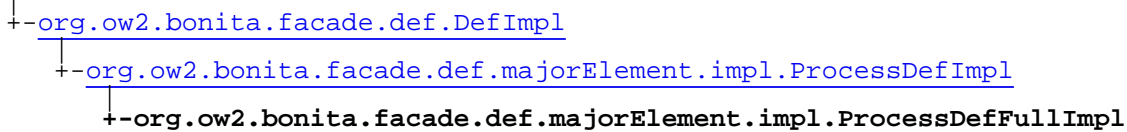
## getRoleMapper

```
public RoleMapperDefImpl getRoleMapper()
```

---

## org.ow2.bonita.facade.def.majorElement.impl Class ProcessDefFullImpl

java.lang.Object



All Implemented Interfaces:

[ProcessDef](#)

public class **ProcessDefFullImpl**  
extends [ProcessDefImpl](#)

### Field Summary

protected	<a href="#">activities</a>
protected	<a href="#">activitySets</a>
protected	<a href="#">applications</a>
protected	<a href="#">dataFields</a>
protected	<a href="#">participants</a>
protected	<a href="#">transitions</a>

Fields inherited from class [org.ow2.bonita.facade.def.majorElement.impl.ProcessDefImpl](#)

[accessLevel](#), [author](#), [codepage](#), [countrykey](#), [created](#), [dbid](#), [deploymentId](#), [description](#), [durationUnit](#), [formalParameters](#), [id](#), [limit](#), [name](#), [packageId](#), [priority](#), [publicationStatus](#), [responsibles](#), [timeEstimation](#), [validFrom](#), [validTo](#), [version](#)

### Constructor Summary

protected	<a href="#">ProcessDefFullImpl()</a>
public	<a href="#">ProcessDefFullImpl</a> (String packageId, String deploymentId, <a href="#">ProcessDef.AccessLevel</a> accessLevel, String author, String codepage, String countrykey, String created, String description, <a href="#">ProcessDef.DurationUnit</a> durationUnit, List formalParameters, String id, String limit, String name, String priority, <a href="#">PackageDef.PublicationStatus</a> publicationStatus, Set responsables, <a href="#">TimeEstimationDefImpl</a> timeEstimation, String validFrom, String validTo, String version, Set dataFields, Set participants, Set activities, Set transitions, Set activitySets, Set applications)

### Method Summary

Set	<a href="#"><u>getActivities()</u></a>
Set	<a href="#"><u>getActivitySets()</u></a>
Set	<a href="#"><u>getApplications()</u></a>
Set	<a href="#"><u>getDataFields()</u></a>
Set	<a href="#"><u>getParticipants()</u></a>
Set	<a href="#"><u>getTransitions()</u></a>

#### Methods inherited from class [org.ow2.bonita.facade.def.majorElement.impl.ProcessDefImpl](#)

[copy](#), [getAccessLevel](#), [getAuthor](#), [getCodepage](#), [getCountrykey](#), [getCreated](#), [getDeploymentId](#), [getDescription](#), [getDurationUnit](#), [getFormalParameters](#), [getId](#), [getLimit](#), [getName](#), [getPackageId](#), [getPriority](#), [getPublicationStatus](#), [getResponsibles](#), [getTimeEstimation](#), [getValidFrom](#), [getValidTo](#), [getVersion](#)

#### Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.ProcessDef](#)

[getAccessLevel](#), [getAuthor](#), [getCodepage](#), [getCountrykey](#), [getCreated](#), [getDeploymentId](#), [getDescription](#), [getDurationUnit](#), [getFormalParameters](#), [getLimit](#), [getPackageId](#), [getPriority](#), [getPublicationStatus](#), [getResponsibles](#), [getTimeEstimation](#), [getValidFrom](#), [getValidTo](#), [getVersion](#)

#### Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### dataFields

```
protected java.util.Set dataFields
```

### participants

```
protected java.util.Set participants
```

### activities

```
protected java.util.Set activities
```

---

## transitions

protected java.util.Set **transitions**

---

## activitySets

protected java.util.Set **activitySets**

---

## applications

protected java.util.Set **applications**

---

## Constructors

### ProcessDefFullImpl

protected **ProcessDefFullImpl**()

---

### ProcessDefFullImpl

```
public ProcessDefFullImpl(String packageId,
    String deploymentId,
    ProcessDef.AccessLevel accessLevel,
    String author,
    String codepage,
    String countrykey,
    String created,
    String description,
    ProcessDef.DurationUnit durationUnit,
    List formalParameters,
    String id,
    String limit,
    String name,
    String priority,
    PackageDef.PublicationStatus publicationStatus,
    Set responsables,
    TimeEstimationDefImpl timeEstimation,
    String validFrom,
    String validTo,
    String version,
    Set dataFields,
    Set participants,
    Set activities,
    Set transitions,
    Set activitySets,
    Set applications)
```

## Methods



---

(continued from last page)

## **getDataFields**

```
public Set getDataFields()
```

---

## **getParticipants**

```
public Set getParticipants()
```

---

## **getActivities**

```
public Set getActivities()
```

---

## **getTransitions**

```
public Set getTransitions()
```

---

## **getActivitySets**

```
public Set getActivitySets()
```

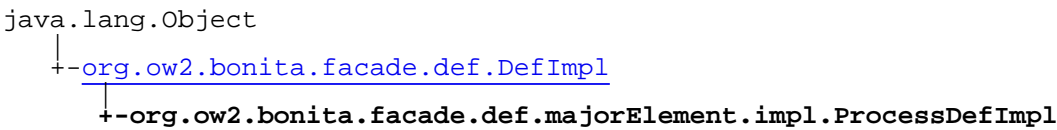
---

## **getApplications**

```
public Set getApplications()
```

---

# org.ow2.bonita.facade.def.majorElement.impl Class ProcessDefImpl



All Implemented Interfaces:  
[ProcessDef](#)

Direct Known Subclasses:  
[ProcessDefFullImpl](#)

public class **ProcessDefImpl**  
extends [DefImpl](#)  
implements [ProcessDef](#)

Field Summary	
protected	<a href="#">accessLevel</a>
protected	<a href="#">author</a>
protected	<a href="#">codepage</a>
protected	<a href="#">countrykey</a>
protected	<a href="#">created</a>
protected	<a href="#">dbid</a>
protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">durationUnit</a>
protected	<a href="#">formalParameters</a>
protected	<a href="#">id</a>
protected	<a href="#">limit</a>
protected	<a href="#">name</a>
protected	<a href="#">packageId</a>

protected	<a href="#">priority</a>
protected	<a href="#">publicationStatus</a>
protected	<a href="#">responsibles</a>
protected	<a href="#">timeEstimation</a>
protected	<a href="#">validFrom</a>
protected	<a href="#">validTo</a>
protected	<a href="#">version</a>

## Constructor Summary

protected	<a href="#">ProcessDefImpl()</a>
protected	<a href="#">ProcessDefImpl</a> (String packageId, String deploymentId, <a href="#">ProcessDef.AccessLevel</a> accessLevel, String author, String codepage, String countrykey, String created, String description, <a href="#">ProcessDef.DurationUnit</a> durationUnit, List formalParameters, String id, String limit, String name, String priority, <a href="#">PackageDef.PublicationStatus</a> publicationStatus, Set responsibles, <a href="#">TimeEstimationDefImpl</a> timeEstimation, String validFrom, String validTo, String version)

## Method Summary

<a href="#">ProcessDefImpl</a>	<a href="#">copy()</a>
<a href="#">ProcessDef.AccessLevel</a>	<a href="#">getAccessLevel()</a>
String	<a href="#">getAuthor()</a>
String	<a href="#">getCodepage()</a>
String	<a href="#">getCountrykey()</a>
String	<a href="#">getCreated()</a>
String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
<a href="#">ProcessDef.DurationUnit</a>	<a href="#">getDurationUnit()</a>
List	<a href="#">getFormalParameters()</a>
String	<a href="#">getId()</a>

String	<a href="#">getLimit()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getPriority()</a>
<a href="#">PackageDef.PublicationStatus</a>	<a href="#">getPublicationStatus()</a>
Set	<a href="#">getResponsibles()</a>
<a href="#">TimeEstimationDefImpl</a>	<a href="#">getTimeEstimation()</a>
String	<a href="#">getValidFrom()</a>
String	<a href="#">getValidTo()</a>
String	<a href="#">getVersion()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.ProcessDef](#)

[getAccessLevel](#), [getAuthor](#), [getCodepage](#), [getCountrykey](#), [getCreated](#), [getDeploymentId](#), [getDescription](#), [getDurationUnit](#), [getFormalParameters](#), [getLimit](#), [getPackageId](#), [getPriority](#), [getPublicationStatus](#), [getResponsibles](#), [getTimeEstimation](#), [getValidFrom](#), [getValidTo](#), [getVersion](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### dbid

protected long **dbid**

### packageId

protected java.lang.String **packageId**

(continued from last page)

---

## deploymentId

protected java.lang.String **deploymentId**

---

## accessLevel

protected org.ow2.bonita.facade.def.majorElement.ProcessDef.AccessLevel **accessLevel**

---

## author

protected java.lang.String **author**

---

## codepage

protected java.lang.String **codepage**

---

## countrykey

protected java.lang.String **countrykey**

---

## created

protected java.lang.String **created**

---

## description

protected java.lang.String **description**

---

## durationUnit

protected org.ow2.bonita.facade.def.majorElement.ProcessDef.DurationUnit **durationUnit**

---

## formalParameters

protected java.util.List **formalParameters**

---

## id

protected java.lang.String **id**

---

(continued from last page)

---

## limit

protected java.lang.String **limit**

---

## name

protected java.lang.String **name**

---

## priority

protected java.lang.String **priority**

---

## publicationStatus

protected org.ow2.bonita.facade.def.majorElement.PackageDef.PublicationStatus  
**publicationStatus**

---

## responsibles

protected java.util.Set **responsibles**

---

## timeEstimation

protected org.ow2.bonita.facade.def.element.impl.TimeEstimationDefImpl **timeEstimation**

---

## validFrom

protected java.lang.String **validFrom**

---

## validTo

protected java.lang.String **validTo**

---

## version

protected java.lang.String **version**

---

## Constructors

(continued from last page)

## ProcessDefImpl

```
protected ProcessDefImpl()
```

---

## ProcessDefImpl

```
protected ProcessDefImpl(String packageId,  
                          String deploymentId,  
                          ProcessDef.AccessLevel accessLevel,  
                          String author,  
                          String codepage,  
                          String countrykey,  
                          String created,  
                          String description,  
                          ProcessDef.DurationUnit durationUnit,  
                          List formalParameters,  
                          String id,  
                          String limit,  
                          String name,  
                          String priority,  
                          PackageDef.PublicationStatus publicationStatus,  
                          Set responsables,  
                          TimeEstimationDefImpl timeEstimation,  
                          String validFrom,  
                          String validTo,  
                          String version)
```

## Methods

### copy

```
public ProcessDefImpl copy()
```

---

### getPackageId

```
public String getPackageId()
```

---

### getDeploymentId

```
public String getDeploymentId()
```

---

### getAccessLevel

```
public ProcessDef.AccessLevel getAccessLevel()
```

---

### getAuthor

```
public String getAuthor()
```

(continued from last page)

---

## getCodepage

```
public String getCodepage()
```

---

## getCountrykey

```
public String getCountrykey()
```

---

## getCreated

```
public String getCreated()
```

---

## getDescription

```
public String getDescription()
```

---

## getDurationUnit

```
public ProcessDef.DurationUnit getDurationUnit()
```

---

## getFormalParameters

```
public List getFormalParameters()
```

---

## getId

```
public String getId()
```

---

## getLimit

```
public String getLimit()
```

---

## getName

```
public String getName()
```

---



(continued from last page)

---

## getPriority

```
public String getPriority()
```

---

## getResponsibles

```
public Set getResponsibles()
```

---

## getTimeEstimation

```
public TimeEstimationDefImpl getTimeEstimation()
```

---

## getValidFrom

```
public String getValidFrom()
```

---

## getValidTo

```
public String getValidTo()
```

---

## getVersion

```
public String getVersion()
```

---

## getPublicationStatus

```
public PackageDef.PublicationStatus getPublicationStatus()
```

## org.ow2.bonita.facade.def.majorElement.impl Class TransitionDefImpl

java.lang.Object

└- [org.ow2.bonita.facade.def.DefImpl](#)

└- [org.ow2.bonita.facade.def.majorElement.impl.TransitionDefImpl](#)

All Implemented Interfaces:

[TransitionDef](#)

public class **TransitionDefImpl**

extends [DefImpl](#)

implements [TransitionDef](#)

### Field Summary

protected	<a href="#">condition</a>
protected	<a href="#">deploymentId</a>
protected	<a href="#">description</a>
protected	<a href="#">from</a>
protected	<a href="#">id</a>
protected	<a href="#">name</a>
protected	<a href="#">packageId</a>
protected	<a href="#">to</a>

### Constructor Summary

protected	<a href="#">TransitionDefImpl()</a>
public	<a href="#">TransitionDefImpl</a> (String packageId, String deploymentId, <a href="#">ConditionDefImpl</a> condition, String description, String from, String id, String name, String to)

### Method Summary

<a href="#">TransitionDefImpl</a>	<a href="#">copy()</a>
<a href="#">ConditionDefImpl</a>	<a href="#">getCondition()</a>

String	<a href="#">getDeploymentId()</a>
String	<a href="#">getDescription()</a>
String	<a href="#">getFrom()</a>
String	<a href="#">getId()</a>
String	<a href="#">getName()</a>
String	<a href="#">getPackageId()</a>
String	<a href="#">getTo()</a>

Methods inherited from class [org.ow2.bonita.facade.def.DefImpl](#)

[copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#), [copy](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.TransitionDef](#)

[getCondition](#), [getDeploymentId](#), [getDescription](#), [getFrom](#), [getPackageId](#), [getTo](#)

Methods inherited from interface [org.ow2.bonita.facade.def.majorElement.MajorElementDef](#)

[getId](#), [getName](#)

## Fields

### packageId

protected java.lang.String **packageId**

### deploymentId

protected java.lang.String **deploymentId**

### condition

protected org.ow2.bonita.facade.def.element.impl.ConditionDefImpl **condition**

### description

protected java.lang.String **description**

---

## from

protected java.lang.String **from**

---

## id

protected java.lang.String **id**

---

## name

protected java.lang.String **name**

---

## to

protected java.lang.String **to**

---

## Constructors

### TransitionDefImpl

protected **TransitionDefImpl**()

---

### TransitionDefImpl

```
public TransitionDefImpl(String packageId,  
                        String deploymentId,  
                        ConditionDefImpl condition,  
                        String description,  
                        String from,  
                        String id,  
                        String name,  
                        String to)
```

---

## Methods

### copy

public [TransitionDefImpl](#) **copy**()

---

### getPackageId

public String **getPackageId**()

---

---

## getDeploymentId

```
public String getDeploymentId()
```

---

## getCondition

```
public ConditionDefImpl getCondition()
```

---

## getDescription

```
public String getDescription()
```

---

## getFrom

```
public String getFrom()
```

---

## getId

```
public String getId()
```

---

## getName

```
public String getName()
```

---

## getTo

```
public String getTo()
```

---

**Package**

**org.ow2.bonita.facade.exception**

## org.ow2.bonita.facade.exception Class ActivityDefNotFoundException

```
java.lang.Object
├-- java.lang.Throwable
│   ├── java.lang.Exception
│   │   ├── org.ow2.bonita.util.BonitaException
│   │   └── org.ow2.bonita.facade.exception.ActivityDefNotFoundException
```

### All Implemented Interfaces:

java.io.Serializable

```
public class ActivityDefNotFoundException
    extends org.ow2.bonita.util.BonitaException
```

### Field Summary

private final	<a href="#">activityId</a>
private final	<a href="#">processId</a>

### Constructor Summary

public	<a href="#">ActivityDefNotFoundException</a> (String processId, String activityId)
--------	--

### Method Summary

String	<a href="#">getActivityId()</a>
String	<a href="#">getProcessId()</a>

### Fields

#### processId

```
private final java.lang.String processId
```

#### activityId

```
private final java.lang.String activityId
```

### Constructors

(continued from last page)

## ActivityDefNotFoundException

```
public ActivityDefNotFoundException(String processId,  
                                   String activityId)
```

## Methods

### getActivityId

```
public String getActivityId()
```

---

### getProcessId

```
public String getProcessId()
```



## org.ow2.bonita.facade.exception Class ActivityNotFoundException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- org.ow2.bonita.util.BonitaException
        |-- org.ow2.bonita.facade.exception.ActivityNotFoundException

```

### All Implemented Interfaces:

java.io.Serializable

```

public class ActivityNotFoundException
extends org.ow2.bonita.util.BonitaException

```

### Field Summary

private final	<a href="#">activityId</a>
private final	<a href="#">instanceId</a>

### Constructor Summary

public	<a href="#">ActivityNotFoundException</a> (String instanceId, String activityId)
--------	--

### Method Summary

String	<a href="#">getActivityId()</a>
String	<a href="#">getInstanceId()</a>

### Fields

#### instanceId

private final java.lang.String **instanceId**

#### activityId

private final java.lang.String **activityId**

### Constructors

(continued from last page)

## ActivityNotFoundException

```
public ActivityNotFoundException(String instanceId,  
                                String activityId)
```

## Methods

### getActivityId

```
public String getActivityId()
```

---

### getInstanceId

```
public String getInstanceId()
```

## org.ow2.bonita.facade.exception Class BonitaInternalException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- java.lang.RuntimeException
        |-- org.ow2.bonita.util.BonitaRuntimeException
          |-- org.ow2.bonita.facade.exception.BonitaInternalException

```

### All Implemented Interfaces:

java.io.Serializable

```

public class BonitaInternalException
extends org.ow2.bonita.util.BonitaRuntimeException

```

Thrown if an internal Bonita error occurred. Please contact Bonita Team at Bull SAS.

## Constructor Summary

public	<a href="#">BonitaInternalException</a> (String message, Throwable cause) Constructs a BonitaInternalException with the specified detail message and the throwable cause.
public	<a href="#">BonitaInternalException</a> (String message) Constructs a BonitaInternalException with the specified detail message.

## Method Summary

static <a href="#">BonitaInternalException</a> on	<a href="#">build</a> (RuntimeException exception)
---	--

## Constructors

### BonitaInternalException

```

public BonitaInternalException(String message,
                               Throwable cause)

```

Constructs a BonitaInternalException with the specified detail message and the throwable cause.

#### Parameters:

message - msg the detail message.  
cause - exception causing the abort.

### BonitaInternalException

```

public BonitaInternalException(String message)

```

(continued from last page)

Constructs a BonitaInternalException with the specified detail message.

**Parameters:**

message - the detail message.

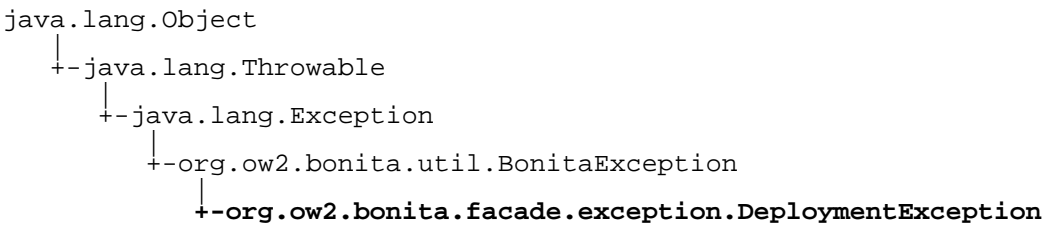
## Methods

### **build**

```
public static BonitaInternalException build(RuntimeException exception)
```

# org.ow2.bonita.facade.exception

## Class DeploymentException



All Implemented Interfaces:  
java.io.Serializable

```
public class DeploymentException
extends org.ow2.bonita.util.BonitaException
```

Exception indicating a failure during the deployment operation.

### Field Summary

private final	<a href="#">className</a>
private final	<a href="#">packageId</a>

### Constructor Summary

public	<a href="#">DeploymentException</a> (String msg) Constructs an DeploymentException with the specified detail message.
public	<a href="#">DeploymentException</a> (String msg, Throwable cause) Constructs a DeploymentException with the specified detail message and the throwable cause.
public	<a href="#">DeploymentException</a> (String msg, String className) Constructs a DeploymentException with the specified detail message and className parameter.
public	<a href="#">DeploymentException</a> (String msg, String className, String packageId) Constructs a DeploymentException with the specified detail message and className, packageId parameters.

### Method Summary

String	<a href="#">getclassName</a> ()
String	<a href="#">getpackageId</a> ()

### Fields

(continued from last page)

## className

```
private final java.lang.String className
```

## packageId

```
private final java.lang.String packageId
```

## Constructors

### DeploymentException

```
public DeploymentException(String msg)
```

Constructs an DeploymentException with the specified detail message. ClassName and packageId are set to null.

**Parameters:**

msg - the detail message.

### DeploymentException

```
public DeploymentException(String msg,  
                           Throwable cause)
```

Constructs a DeploymentException with the specified detail message and the throwable cause. ClassName and packageId are set to null.

**Parameters:**

msg - the detail message.

cause - exception causing the abort.

### DeploymentException

```
public DeploymentException(String msg,  
                           String className)
```

Constructs a DeploymentException with the specified detail message and className parameter. PackageId is set to null.

**Parameters:**

msg - the detail message.

className - the name of the class to deploy.

### DeploymentException

```
public DeploymentException(String msg,  
                           String className,  
                           String packageId)
```

Constructs a DeploymentException with the specified detail message and className, packageId parameters.

**Parameters:**

msg - the detail message.

className - the name of the class to deploy.

packageId - the id of the package.

## Methods

### **getclassName**

```
public String getclassName()
```

---

### **getpackageId**

```
public String getpackageId()
```

## org.ow2.bonita.facade.exception Class IllegalTaskStateException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- org.ow2.bonita.util.BonitaException
        |-- org.ow2.bonita.facade.exception.IllegalTaskStateException

```

### All Implemented Interfaces:

java.io.Serializable

```

public class IllegalTaskStateException
extends org.ow2.bonita.util.BonitaException

```

This exception is thrown when the current state differs from the expected states.

### Field Summary

private final	<a href="#"><code>currentState</code></a>
private final	<a href="#"><code>expectedStates</code></a>
private final	<a href="#"><code>taskId</code></a>

### Constructor Summary

public	<a href="#"><code>IllegalTaskStateException</code></a> (String msg, String taskId, Set expectedStates, org.ow2.bonita.util.Constants.TaskState currentState) Constructs an IllegalTaskStateException.
--------	--

### Method Summary

org.ow2.bonita.util.Constants.TaskState	<a href="#"><code>getCurrentState()</code></a>
Set	<a href="#"><code>getExpectedStates()</code></a>
String	<a href="#"><code>getTaskId()</code></a>

### Fields

#### taskId

```
private final java.lang.String taskId
```



---

## expectedStates

```
private final java.util.Set expectedStates
```

---

## currentState

```
private final org.ow2.bonita.util.Constants.TaskState currentState
```

---

## Constructors

### IllegalTaskStateException

```
public IllegalTaskStateException(String msg,  
                                String taskId,  
                                Set expectedStates,  
                                org.ow2.bonita.util.Constants.TaskState currentState)
```

Constructs an IllegalTaskStateException.

#### Parameters:

msg - the detail message.

taskId - the task Id.

expectedStates - the expected states.

currentState - the current state.

## Methods

### getTaskId

```
public String getTaskId()
```

---

### getExpectedStates

```
public Set getExpectedStates()
```

---

### getCurrentState

```
public org.ow2.bonita.util.Constants.TaskState getCurrentState()
```

---

## org.ow2.bonita.facade.exception Class InstanceNotFoundException

```
java.lang.Object
├-- java.lang.Throwable
│   ├── java.lang.Exception
│   │   ├── org.ow2.bonita.util.BonitaException
│   │   └-- org.ow2.bonita.facade.exception.InstanceNotFoundException
```

### All Implemented Interfaces:

java.io.Serializable

```
public class InstanceNotFoundException
extends org.ow2.bonita.util.BonitaException
```

### Field Summary

private final	<a href="#"><u>instanceId</u></a>
---------------	-----------------------------------

### Constructor Summary

public	<a href="#"><u>InstanceNotFoundException</u></a> (String instanceId)
--------	--

### Method Summary

String	<a href="#"><u>getInstanceId</u></a> ()
--------	---

### Fields

#### instanceId

```
private final java.lang.String instanceId
```

### Constructors

#### InstanceNotFoundException

```
public InstanceNotFoundException(String instanceId)
```

### Methods

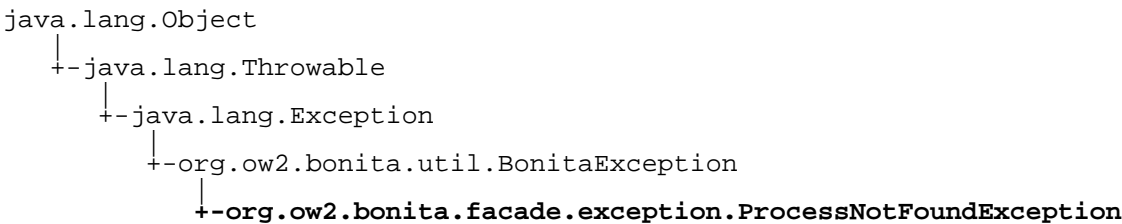
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## **getInstanceId**

```
public String getInstanceId()
```

# org.ow2.bonita.facade.exception

## Class ProcessNotFoundException



All Implemented Interfaces:  
java.io.Serializable

```
public class ProcessNotFoundException
extends org.ow2.bonita.util.BonitaException
```

Signal that a process was not found.

Field Summary	
private final	<a href="#">processId</a>

Constructor Summary	
public	<a href="#">ProcessNotFoundException</a> (String processId)

Method Summary	
String	<a href="#">getProcessId</a> ()

### Fields

**processId**  
private final java.lang.String **processId**

### Constructors

**ProcessNotFoundException**  
public **ProcessNotFoundException**(String processId)

### Methods

(continued from last page)

## **getProcessId**

```
public String getProcessId()
```

## org.ow2.bonita.facade.exception Class TaskNotFoundException

```
java.lang.Object
├-- java.lang.Throwable
│   ├── java.lang.Exception
│   │   ├── org.ow2.bonita.util.BonitaException
│   │   └-- org.ow2.bonita.facade.exception.TaskNotFoundException
```

### All Implemented Interfaces:

java.io.Serializable

```
public class TaskNotFoundException
extends org.ow2.bonita.util.BonitaException
```

### Field Summary

private final	<a href="#">taskId</a>
---------------	------------------------

### Constructor Summary

public	<a href="#">TaskNotFoundException</a> (String taskId)
--------	---

### Method Summary

String	<a href="#">getTaskId</a> ()
--------	------------------------------

### Fields

#### taskId

private final java.lang.String **taskId**

### Constructors

#### TaskNotFoundException

public **TaskNotFoundException**(String taskId)

### Methods

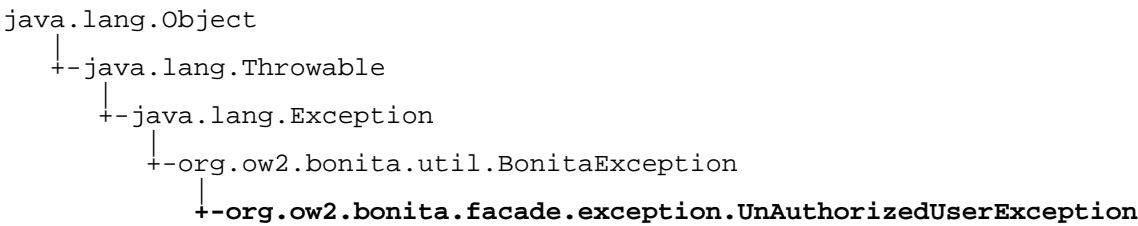
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## **getTaskId**

```
public String getTaskId()
```

# org.ow2.bonita.facade.exception

## Class UnAuthorizedUserException



All Implemented Interfaces:  
java.io.Serializable

public class **UnAuthorizedUserException**  
extends org.ow2.bonita.util.BonitaException

This exception is thrown when a user attempts to execute an unauthorized action.

Field Summary	
private final	<a href="#">instanceId</a>
private final	<a href="#">taskId</a>
private final	<a href="#">userId</a>

Constructor Summary	
public	<a href="#">UnAuthorizedUserException</a> (String msg, String instanceId, String userId) Constructs an UnAuthorizedUserException for instance.
public	<a href="#">UnAuthorizedUserException</a> (String msg, String instanceId, String taskId, String userId) Constructs an UnAuthorizedUserException for task.

Method Summary	
String	<a href="#">getInstanceId()</a>
String	<a href="#">getTaskId()</a>
String	<a href="#">getuserId()</a>

## Fields

### instanceId

private final java.lang.String **instanceId**



(continued from last page)

---

## taskId

```
private final java.lang.String taskId
```

---

## userId

```
private final java.lang.String userId
```

---

## Constructors

### UnAuthorizedUserException

```
public UnAuthorizedUserException(String msg,  
                                String instanceId,  
                                String userId)
```

Constructs an UnAuthorizedUserException for instance. TaskId is set to null.

**Parameters:**

msg - the detail message.  
instanceId - the instance id.  
userId - the user id.

---

### UnAuthorizedUserException

```
public UnAuthorizedUserException(String msg,  
                                String instanceId,  
                                String taskId,  
                                String userId)
```

Constructs an UnAuthorizedUserException for task.

**Parameters:**

msg - the detail message.  
instanceId - the instance id.  
taskId - the task id.  
userId - the user id.

---

## Methods

### getTaskId

```
public String getTaskId()
```

---

### getInstanceId

```
public String getInstanceId()
```

---

---

## getuserId

```
public String getuserId()
```

## org.ow2.bonita.facade.exception Class VariableNotFoundException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- org.ow2.bonita.util.BonitaException
        |-- org.ow2.bonita.facade.exception.VariableNotFoundException

```

### All Implemented Interfaces:

```
java.io.Serializable
```

```

public class VariableNotFoundException
extends org.ow2.bonita.util.BonitaException

```

### Field Summary

private final	<a href="#">activityId</a>
private final	<a href="#">instanceId</a>
private final	<a href="#">variableId</a>

### Constructor Summary

public	<a href="#">VariableNotFoundException</a> (String instanceId, String activityId, String variableId)
public	<a href="#">VariableNotFoundException</a> (String instanceId, String variableId)

### Method Summary

String	<a href="#">getActivityId()</a>
String	<a href="#">getInstanceId()</a>
String	<a href="#">getVariableId()</a>

### Fields

#### instanceId

```
private final java.lang.String instanceId
```

---

## activityId

```
private final java.lang.String activityId
```

---

## variableId

```
private final java.lang.String variableId
```

---

## Constructors

### VariableNotFoundException

```
public VariableNotFoundException(String instanceId,  
                                   String activityId,  
                                   String variableId)
```

---

### VariableNotFoundException

```
public VariableNotFoundException(String instanceId,  
                                   String variableId)
```

---

## Methods

### getActivityId

```
public String getActivityId()
```

---

### getInstanceId

```
public String getInstanceId()
```

---

### getVariableId

```
public String getVariableId()
```

---

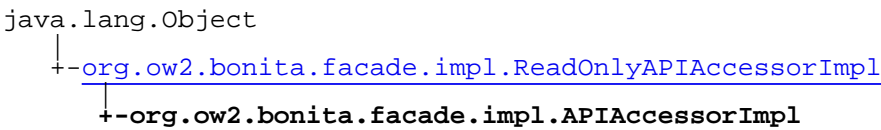
---

**Package**

**org.ow2.bonita.facade.impl**

# org.ow2.bonita.facade.impl

## Class APIAccessorImpl



All Implemented Interfaces:  
[APIAccessor](#), [ReadOnlyAPIAccessor](#)

public class **APIAccessorImpl**  
extends [ReadOnlyAPIAccessorImpl](#)  
implements [ReadOnlyAPIAccessor](#), [APIAccessor](#)

### Constructor Summary

public	<a href="#">APIAccessorImpl()</a>
--------	-----------------------------------

### Method Summary

<a href="#">DeployerAPI</a>	<a href="#">getDeployerAPI()</a>
<a href="#">RuntimeAPI</a>	<a href="#">getRuntimeAPI()</a>

Methods inherited from class [org.ow2.bonita.facade.impl.ReadOnlyAPIAccessorImpl](#)  
[getDefinitionAPI](#), [getQueryAPI](#), [getRuntimeAPI](#)

Methods inherited from interface [org.ow2.bonita.facade.ReadOnlyAPIAccessor](#)  
[getDefinitionAPI](#), [getQueryAPI](#), [getRuntimeAPI](#)

Methods inherited from interface [org.ow2.bonita.facade.APIAccessor](#)  
[getDeployerAPI](#), [getRuntimeAPI](#)

Methods inherited from interface [org.ow2.bonita.facade.ReadOnlyAPIAccessor](#)  
[getDefinitionAPI](#), [getQueryAPI](#), [getRuntimeAPI](#)

### Constructors

#### APIAccessorImpl

public **APIAccessorImpl()**

(continued from last page)

## Methods

### **getRuntimeAPI**

```
public RuntimeAPI getRuntimeAPI()
```

---

### **getDeployerAPI**

```
public DeployerAPI getDeployerAPI()
```

## org.ow2.bonita.facade.impl Class DefinitionAPIImpl

java.lang.Object

└-org.ow2.bonita.facade.impl.DefinitionAPIImpl

All Implemented Interfaces:

[DefinitionAPI](#)

public class **DefinitionAPIImpl**

extends Object

implements [DefinitionAPI](#)

### Constructor Summary

public	<a href="#">DefinitionAPIImpl()</a>
--------	-------------------------------------

### Method Summary

void	<a href="#">add</a> (Set src, Set dest)
void	<a href="#">add</a> (Object src, Set dest)
<a href="#">PackageDefFullImpl</a>	<a href="#">getDefinitionLastPackage</a> (String packageId)
<a href="#">ProcessDefFullImpl</a>	<a href="#">getDefinitionLastProcess</a> (String processId)
<a href="#">PackageDefFullImpl</a>	<a href="#">getDefinitionPackage</a> (String packageId, String deploymentId)
Set	<a href="#">getDefinitionPackages</a> ()
Set	<a href="#">getDefinitionPackages</a> (String packageId)
<a href="#">ProcessDefFullImpl</a>	<a href="#">getDefinitionProcess</a> (String processId, String deploymentId)
Set	<a href="#">getDefinitionProcessActivities</a> (String processId, String deploymentId)
Set	<a href="#">getDefinitionProcesses</a> ()
Set	<a href="#">getDefinitionProcesses</a> (String processId)
org.ow2.bonita.repository.DefinitionRepository	<a href="#">getDefinitionRepository</a> ()
<a href="#">PackageDef</a>	<a href="#">getDeployedPackage</a> (String packageId)



Set	<a href="#">getDeployedPackages()</a>
<a href="#">ProcessDef</a>	<a href="#">getDeployedProcess</a> (String processId)
Set	<a href="#">getDeployedProcesses()</a>
org.ow2.bonita.services.record.History	<a href="#">getHistory()</a>
<a href="#">PackageDefFullImpl</a>	<a href="#">getHistoryPackage</a> (String packageId, String deploymentId)
Set	<a href="#">getHistoryPackages()</a>
Set	<a href="#">getHistoryPackages</a> (String packageId)
<a href="#">ProcessDefFullImpl</a>	<a href="#">getHistoryProcess</a> (String processId, String deploymentId)
Set	<a href="#">getHistoryProcessActivities</a> (String processId, String deploymentId)
Set	<a href="#">getHistoryProcesses()</a>
Set	<a href="#">getHistoryProcesses</a> (String processId)
<a href="#">PackageDef</a>	<a href="#">getInternalLastPackage</a> (Set packages)
<a href="#">PackageDefFullImpl</a>	<a href="#">getInternalPackage</a> (String packageId, String deploymentId)
<a href="#">ProcessDefFullImpl</a>	<a href="#">getInternalPackageProcess</a> (String packageId, String deploymentId, String processId)
Set	<a href="#">getInternalPackageProcesses</a> (String packageId, String deploymentId)
Set	<a href="#">getInternalPackages</a> (String packageId)
<a href="#">ProcessDefFullImpl</a>	<a href="#">getInternalProcess</a> (String processId, String deploymentId)
Set	<a href="#">getInternalProcesses</a> (String processId)
Set	<a href="#">getInternalProcessParticipants</a> (String processId, String deploymentId)
<a href="#">PackageDef</a>	<a href="#">getLastPackage</a> (String packageId)
<a href="#">ProcessDef</a>	<a href="#">getLastProcess</a> (String processId)
<a href="#">PackageDef</a>	<a href="#">getPackage</a> (String packageId, String deploymentId)
String	<a href="#">getPackageId</a> (String deploymentId, String packageName)

<a href="#"><u>ProcessDef</u></a>	<a href="#"><u>getPackageProcess</u></a> (String packageId, String deploymentId, String processId)
Set	<a href="#"><u>getPackageProcesses</u></a> (String packageId, String deploymentId)
Set	<a href="#"><u>getPackages</u></a> ()
Set	<a href="#"><u>getPackages</u></a> (String packageId)
<a href="#"><u>ProcessDef</u></a>	<a href="#"><u>getProcess</u></a> (String processId, String deploymentId)
Set	<a href="#"><u>getProcessActivities</u></a> (String processId, String deploymentId)
<a href="#"><u>ActivityDef</u></a>	<a href="#"><u>getProcessActivity</u></a> (String processId, String deploymentId, String activityId)
String	<a href="#"><u>getProcessActivityId</u></a> (String processId, String deploymentId, String activityName)
Set	<a href="#"><u>getProcesses</u></a> ()
Set	<a href="#"><u>getProcesses</u></a> (String processId)
String	<a href="#"><u>getProcessId</u></a> (String deploymentId, String processName)
<a href="#"><u>ParticipantDef</u></a>	<a href="#"><u>getProcessParticipant</u></a> (String processId, String deploymentId, String participantId)
String	<a href="#"><u>getProcessParticipantId</u></a> (String processId, String deploymentId, String participantName)
Set	<a href="#"><u>getProcessParticipants</u></a> (String processId, String deploymentId)

#### Methods inherited from interface [org.ow2.bonita.facade.DefinitionAPI](#)

[getDeployedPackage](#), [getDeployedPackages](#), [getDeployedProcess](#), [getDeployedProcesses](#), [getLastPackage](#), [getLastProcess](#), [getPackage](#), [getPackageId](#), [getPackageProcess](#), [getPackageProcesses](#), [getPackages](#), [getPackages](#), [getProcess](#), [getProcessActivities](#), [getProcessActivity](#), [getProcessActivityId](#), [getProcesses](#), [getProcesses](#), [getProcessId](#), [getProcessParticipant](#), [getProcessParticipantId](#), [getProcessParticipants](#)

## Constructors

### DefinitionAPIImpl

```
public DefinitionAPIImpl()
```

## Methods

(continued from last page)

---

## add

```
private void add(Object src,  
                Set dest)
```

---

## add

```
private void add(Set src,  
                Set dest)
```

---

## getInternalLastPackage

```
private PackageDef getInternalLastPackage(Set packages)
```

---

## getInternalProcesses

```
private Set getInternalProcesses(String processId)
```

---

## getInternalPackages

```
private Set getInternalPackages(String packageId)
```

---

## getInternalPackageProcesses

```
private Set getInternalPackageProcesses(String packageId,  
                                         String deploymentId)
```

---

## getInternalPackageProcess

```
private ProcessDefFullImpl getInternalPackageProcess(String packageId,  
                                                    String deploymentId,  
                                                    String processId)
```

---

## getInternalPackage

```
private PackageDefFullImpl getInternalPackage(String packageId,  
                                             String deploymentId)
```

---

## getInternalProcess

```
public ProcessDefFullImpl getInternalProcess(String processId,  
                                             String deploymentId)
```

(continued from last page)

---

## getInternalProcessParticipants

```
public Set getInternalProcessParticipants(String processId,  
    String deploymentId)
```

---

## getDefinitionRepository

```
private org.ow2.bonita.repository.DefinitionRepository getDefinitionRepository()
```

---

## getDefinitionPackages

```
private Set getDefinitionPackages()
```

---

## getDefinitionPackages

```
private Set getDefinitionPackages(String packageId)
```

---

## getDefinitionPackage

```
private PackageDefFullImpl getDefinitionPackage(String packageId,  
    String deploymentId)
```

---

## getDefinitionLastPackage

```
private PackageDefFullImpl getDefinitionLastPackage(String packageId)
```

---

## getDefinitionProcesses

```
private Set getDefinitionProcesses()
```

---

## getDefinitionProcesses

```
private Set getDefinitionProcesses(String processId)
```

---

## getDefinitionProcess

```
private ProcessDefFullImpl getDefinitionProcess(String processId,  
    String deploymentId)
```

---

## getDefinitionLastProcess

```
private ProcessDefFullImpl getDefinitionLastProcess(String processId)
```

---

---

## getDefinitionProcessActivities

```
private Set getDefinitionProcessActivities(String processId,  
                                           String deploymentId)
```

---

---

## getHistory

```
private org.ow2.bonita.services.record.History getHistory()
```

---

---

## getHistoryPackages

```
private Set getHistoryPackages()
```

---

---

## getHistoryPackages

```
private Set getHistoryPackages(String packageId)
```

---

---

## getHistoryPackage

```
private PackageDefFullImpl getHistoryPackage(String packageId,  
                                              String deploymentId)
```

---

---

## getHistoryProcesses

```
private Set getHistoryProcesses()
```

---

---

## getHistoryProcesses

```
private Set getHistoryProcesses(String processId)
```

---

---

## getHistoryProcess

```
private ProcessDefFullImpl getHistoryProcess(String processId,  
                                              String deploymentId)
```

---

---

## getHistoryProcessActivities

```
private Set getHistoryProcessActivities(String processId,  
    String deploymentId)
```

---

---

## getLastPackage

```
public PackageDef getLastPackage(String packageId)
```

---

---

## getLastProcess

```
public ProcessDef getLastProcess(String processId)
```

---

---

## getPackage

```
public PackageDef getPackage(String packageId,  
    String deploymentId)
```

---

---

## getPackageProcess

```
public ProcessDef getPackageProcess(String packageId,  
    String deploymentId,  
    String processId)
```

---

---

## getPackageProcesses

```
public Set getPackageProcesses(String packageId,  
    String deploymentId)
```

---

---

## getPackages

```
public Set getPackages()
```

---

---

## getPackages

```
public Set getPackages(String packageId)
```

---

---

## getProcess

```
public ProcessDef getProcess(String processId,  
    String deploymentId)
```

---

## getProcessActivities

```
public Set getProcessActivities(String processId,  
                                String deploymentId)
```

---

## getProcessActivity

```
public ActivityDef getProcessActivity(String processId,  
                                       String deploymentId,  
                                       String activityId)
```

---

## getProcessParticipant

```
public ParticipantDef getProcessParticipant(String processId,  
                                             String deploymentId,  
                                             String participantId)
```

---

## getProcessParticipants

```
public Set getProcessParticipants(String processId,  
                                   String deploymentId)
```

---

## getProcesses

```
public Set getProcesses()
```

---

## getProcesses

```
public Set getProcesses(String processId)
```

---

## getProcessParticipantId

```
public String getProcessParticipantId(String processId,  
                                       String deploymentId,  
                                       String participantName)
```

---

## getProcessActivityId

```
public String getProcessActivityId(String processId,  
                                    String deploymentId,  
                                    String activityName)
```

---

(continued from last page)

## getProcessId

```
public String getProcessId(String deploymentId,  
    String processName)
```

---

## getPackageId

```
public String getPackageId(String deploymentId,  
    String packageName)
```

---

## getDeployedPackage

```
public PackageDef getDeployedPackage(String packageId)
```

---

## getDeployedPackages

```
public Set getDeployedPackages()
```

---

## getDeployedProcess

```
public ProcessDef getDeployedProcess(String processId)
```

---

## getDeployedProcesses

```
public Set getDeployedProcesses()
```

---



## org.ow2.bonita.facade.impl Class DeployerAPIImpl

java.lang.Object

└─org.ow2.bonita.facade.impl.DeployerAPIImpl

All Implemented Interfaces:

[DeployerAPI](#)

public class **DeployerAPIImpl**  
extends Object  
implements [DeployerAPI](#)

### Field Summary

private static	<a href="#">log</a>
----------------	---------------------

### Constructor Summary

public	<a href="#">DeployerAPIImpl()</a>
--------	-----------------------------------

### Method Summary

org.ow2.bonita.deploy ment.PackageKey	<a href="#">deploy</a> (org.ow2.bonita.deployment.Deployment deployment)
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (byte[] barFile)
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.io.File barFile)
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.io.InputStream barFileInputStream)
org.ow2.bonita.deploy ment.PackageKey	<a href="#">deployBar</a> (java.net.URL barFile)
void	<a href="#">deployClass</a> (String className, byte[] clazz)
void	<a href="#">deployClasses</a> (Map classes)
void	<a href="#">deployClassesInJar</a> (byte[] classesArchive)
java.io.File	<a href="#">explodeJarFile</a> (byte[] jarFile, String destDirName)
Map	<a href="#">getClasses</a> (java.io.File tmpDir)
String	<a href="#">getClassName</a> (java.io.File classFile, java.io.File baseDir)

void	<a href="#">getMatchingFiles</a> (java.io.File dir, List matchingFiles, String extension)
List	<a href="#">getMatchingFiles</a> (java.io.File baseDir, String extension)
void	<a href="#">removeClass</a> (String className)
void	<a href="#">removeClasses</a> (String[] classNames)
void	<a href="#">undeploy</a> (String packageId)

Methods inherited from interface [org.ow2.bonita.facade.DeployerAPI](#)

[deploy](#), [deployBar](#), [deployBar](#), [deployBar](#), [deployBar](#), [deployClass](#), [deployClasses](#), [deployClassesInJar](#), [removeClass](#), [removeClasses](#), [undeploy](#)

## Fields

### log

```
private static java.util.logging.Logger log
```

## Constructors

### DeployerAPIImpl

```
public DeployerAPIImpl()
```

## Methods

### deploy

```
public org.ow2.bonita.deployment.PackageKey
deploy(org.ow2.bonita.deployment.Deployment deployment)
```

### deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(java.io.InputStream
barFileInputStream)
    throws DeploymentException
```

### deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(java.net.URL barFile)
    throws DeploymentException
```

(continued from last page)

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(java.io.File barFile)
    throws DeploymentException
```

---

## deployBar

```
public org.ow2.bonita.deployment.PackageKey deployBar(byte[] barFile)
    throws DeploymentException
```

---

## getClassName

```
private String getClassName(java.io.File classFile,
    java.io.File baseDir)
```

---

## getMatchingFiles

```
private List getMatchingFiles(java.io.File baseDir,
    String extension)
```

---

## getMatchingFiles

```
private void getMatchingFiles(java.io.File dir,
    List matchingFiles,
    String extension)
```

---

## explodeJarFile

```
private java.io.File explodeJarFile(byte[] jarFile,
    String destDirName)
    throws DeploymentException
```

---

## getClasses

```
private Map getClasses(java.io.File tmpDir)
    throws DeploymentException
```

---

## deployClass

```
public void deployClass(String className,
    byte[] clazz)
    throws DeploymentException
```

---

## deployClassesInJar

```
public void deployClassesInJar(byte[] classesArchive)
    throws DeploymentException
```

---

## deployClasses

```
public void deployClasses(Map classes)
    throws DeploymentException
```

---

## undeploy

```
public void undeploy(String packageId)
```

---

## removeClass

```
public void removeClass(String className)
    throws DeploymentException
```

---

## removeClasses

```
public void removeClasses(String[] classNames)
    throws DeploymentException
```

## org.ow2.bonita.facade.impl Class QueryAPIImpl

java.lang.Object

└─org.ow2.bonita.facade.impl.QueryAPIImpl

All Implemented Interfaces:

[QueryAPI](#)

public class **QueryAPIImpl**  
extends Object  
implements [QueryAPI](#)

### Constructor Summary

public	<a href="#">QueryAPIImpl</a> ( )
--------	----------------------------------

### Method Summary

Map	<a href="#">getActivities</a> (String instanceId)
org.ow2.bonita.services.record.ActivityRecord	<a href="#">getActivity</a> (String instanceId, String activityId)
org.ow2.bonita.services.record.History	<a href="#">getHistory</a> ( )
org.ow2.bonita.services.record.InstanceRecord	<a href="#">getInstance</a> (String instanceId)
Map	<a href="#">getInstances</a> (String processId)
org.ow2.bonita.services.record.Journal	<a href="#">getJournal</a> ( )
org.ow2.bonita.services.record.TaskRecord	<a href="#">getTask</a> (String taskId)
Map	<a href="#">getTasks</a> (String instanceId)

Methods inherited from interface [org.ow2.bonita.facade.QueryAPI](#)

[getActivities](#), [getActivity](#), [getInstance](#), [getInstances](#), [getTask](#), [getTasks](#)

### Constructors

(continued from last page)

## QueryAPIImpl

```
public QueryAPIImpl()
```

## Methods

### getJournal

```
private org.ow2.bonita.services.record.Journal getJournal()
```

### getHistory

```
private org.ow2.bonita.services.record.History getHistory()
```

### getInstance

```
public org.ow2.bonita.services.record.InstanceRecord getInstance(String instanceId)
```

### getInstances

```
public Map getInstances(String processId)
```

### getActivity

```
public org.ow2.bonita.services.record.ActivityRecord getActivity(String instanceId,  
    String activityId)
```

### getActivities

```
public Map getActivities(String instanceId)
```

### getTask

```
public org.ow2.bonita.services.record.TaskRecord getTask(String taskId)
```

### getTasks

```
public Map getTasks(String instanceId)
```

# org.ow2.bonita.facade.impl

## Class ReadOnlyAPIAccessorImpl

java.lang.Object

↳org.ow2.bonita.facade.impl.ReadOnlyAPIAccessorImpl

All Implemented Interfaces:

[ReadOnlyAPIAccessor](#)

Direct Known Subclasses:

[APIAccessorImpl](#)

public class **ReadOnlyAPIAccessorImpl**  
extends Object  
implements [ReadOnlyAPIAccessor](#)

Constructor Summary	
public	<a href="#">ReadOnlyAPIAccessorImpl()</a>

Method Summary	
<a href="#">DefinitionAPI</a>	<a href="#">getDefinitionAPI()</a>
<a href="#">QueryAPI</a>	<a href="#">getQueryAPI()</a>
<a href="#">RuntimeReadOnlyAPI</a>	<a href="#">getRuntimeAPI()</a>

Methods inherited from interface <a href="#">org.ow2.bonita.facade.ReadOnlyAPIAccessor</a>
<a href="#">getDefinitionAPI</a> , <a href="#">getQueryAPI</a> , <a href="#">getRuntimeAPI</a>

## Constructors

### ReadOnlyAPIAccessorImpl

public **ReadOnlyAPIAccessorImpl()**

## Methods

### getRuntimeAPI

public [RuntimeReadOnlyAPI](#) **getRuntimeAPI()**

---

## getQueryAPI

```
public QueryAPI getQueryAPI()
```

---

## getDefinitionAPI

```
public DefinitionAPI getDefinitionAPI()
```



## org.ow2.bonita.facade.impl

### Class RuntimeAPIImpl

java.lang.Object

└-[org.ow2.bonita.facade.impl.RuntimeReadOnlyAPIImpl](#)  
 └-[org.ow2.bonita.facade.impl.RuntimeAPIImpl](#)

All Implemented Interfaces:

[RuntimeAPI](#), [RuntimeReadOnlyAPI](#)

public class **RuntimeAPIImpl**  
 extends [RuntimeReadOnlyAPIImpl](#)  
 implements [RuntimeReadOnlyAPI](#), [RuntimeAPI](#)

Fields inherited from class [org.ow2.bonita.facade.impl.RuntimeReadOnlyAPIImpl](#)

[LOG](#), [queryAPI](#)

### Constructor Summary

public [RuntimeAPIImpl](#)()

### Method Summary

void [deleteAllInstances](#)(String processId)

void [deleteInstance](#)(String instanceId)

void [finishTask](#)(String taskId)

String [instantiateProcess](#)(String processId)  
 Create an instance of the specified process and return the instanceId

String [instantiateProcess](#)(String processId, Map variables)

void [resumeTask](#)(String taskId)

void [setVariable](#)(String instanceId, String variableId, Object variableValue)

void [setVariable](#)(String instanceId, String activityId, String variableId, Object variableValue)

void [startTask](#)(String taskId)

void [suspendTask](#)(String taskId)

Methods inherited from class [org.ow2.bonita.facade.impl.RuntimeReadOnlyAPIImpl](#)

[getInstance](#), [getTask](#), [getTaskList](#), [getTaskList](#), [getVariable](#), [getVariable](#), [getVariableDefinitions](#), [getVariableDefinitions](#), [getVariables](#), [getVariables](#), [getVariablesInitialValue](#), [getXpdlProcess](#)

Methods inherited from interface [org.ow2.bonita.facade.RuntimeReadOnlyAPI](#)

[getTaskList](#), [getTaskList](#), [getVariable](#), [getVariable](#), [getVariableDefinitions](#), [getVariableDefinitions](#), [getVariables](#), [getVariables](#)

Methods inherited from interface [org.ow2.bonita.facade.RuntimeAPI](#)

[deleteAllInstances](#), [deleteInstance](#), [finishTask](#), [instantiateProcess](#), [instantiateProcess](#), [resumeTask](#), [setVariable](#), [setVariable](#), [startTask](#), [suspendTask](#)

Methods inherited from interface [org.ow2.bonita.facade.RuntimeReadOnlyAPI](#)

[getTaskList](#), [getTaskList](#), [getVariable](#), [getVariable](#), [getVariableDefinitions](#), [getVariableDefinitions](#), [getVariables](#), [getVariables](#)

## Constructors

### RuntimeAPIImpl

```
public RuntimeAPIImpl()
```

## Methods

### instantiateProcess

```
public String instantiateProcess(String processId)
    throws ProcessNotFoundException
```

Create an instance of the specified process and return the instanceId

### instantiateProcess

```
public String instantiateProcess(String processId,
    Map variables)
    throws ProcessNotFoundException
```

### deleteInstance

```
public void deleteInstance(String instanceId)
```

### deleteAllInstances

```
public void deleteAllInstances(String processId)
```

---

## startTask

```
public void startTask(String taskId)
    throws TaskNotFoundException,
           IllegalTaskStateException
```

---

## finishTask

```
public void finishTask(String taskId)
    throws TaskNotFoundException,
           IllegalTaskStateException
```

---

## suspendTask

```
public void suspendTask(String taskId)
    throws TaskNotFoundException,
           IllegalTaskStateException,
           UnauthorizedUserException
```

---

## resumeTask

```
public void resumeTask(String taskId)
    throws TaskNotFoundException,
           IllegalTaskStateException,
           UnauthorizedUserException
```

---

## setVariable

```
public void setVariable(String instanceId,
                        String variableId,
                        Object variableValue)
    throws InstanceNotFoundException
```

---

## setVariable

```
public void setVariable(String instanceId,
                        String activityId,
                        String variableId,
                        Object variableValue)
    throws InstanceNotFoundException,
           ActivityNotFoundException
```

# org.ow2.bonita.facade.impl

## Class RuntimeReadOnlyAPIImpl

java.lang.Object

└-org.ow2.bonita.facade.impl.RuntimeReadOnlyAPIImpl

All Implemented Interfaces:

[RuntimeReadOnlyAPI](#)

Direct Known Subclasses:

[RuntimeAPIImpl](#)

public class **RuntimeReadOnlyAPIImpl**

extends Object

implements [RuntimeReadOnlyAPI](#)

### Field Summary

protected static final	<a href="#">LOG</a>
protected final	<a href="#">queryAPI</a>

### Constructor Summary

public	<a href="#">RuntimeReadOnlyAPIImpl()</a>
--------	--

### Method Summary

org.ow2.bonita.runtime.XpdlInstance	<a href="#">getInstance</a> (String instanceId)
org.ow2.bonita.services.record.TaskRecord	<a href="#">getTask</a> (String taskId)
Collection	<a href="#">getTaskList</a> (org.ow2.bonita.util.Constants.TaskState taskState)
Collection	<a href="#">getTaskList</a> (String instanceId, org.ow2.bonita.util.Constants.TaskState taskState)
Object	<a href="#">getVariable</a> (String instanceId, String variableId)
Object	<a href="#">getVariable</a> (String instanceId, String activityId, String variableId)
Map	<a href="#">getVariableDefinitions</a> (String processId)
Map	<a href="#">getVariableDefinitions</a> (String processId, String activityId)
Map	<a href="#">getVariables</a> (String instanceId)

Map	<a href="#">getVariables</a> (String instanceId, String activityId)
Map	<a href="#">getVariablesInitialValue</a> (List variableDefinitions)
org.ow2.bonita.definition.XpdlProcess	<a href="#">getXpdlProcess</a> (String processId)

Methods inherited from interface <a href="#">org.ow2.bonita.facade.RuntimeReadOnlyAPI</a>
<a href="#">getTaskList</a> , <a href="#">getTaskList</a> , <a href="#">getVariable</a> , <a href="#">getVariable</a> , <a href="#">getVariableDefinitions</a> , <a href="#">getVariableDefinitions</a> , <a href="#">getVariables</a> , <a href="#">getVariables</a>

## Fields

### LOG

protected static final java.util.logging.Logger **LOG**

### queryAPI

protected final org.ow2.bonita.facade.QueryAPI **queryAPI**

## Constructors

### RuntimeReadOnlyAPIImpl

public RuntimeReadOnlyAPIImpl()

## Methods

### getTaskList

public Collection **getTaskList**(String instanceId,  
org.ow2.bonita.util.Constants.TaskState taskState)  
throws [InstanceNotFoundException](#)

### getTaskList

public Collection **getTaskList**(org.ow2.bonita.util.Constants.TaskState taskState)

### getTask

protected org.ow2.bonita.services.record.TaskRecord **getTask**(String taskId)  
throws [TaskNotFoundException](#)

(continued from last page)

---

## getVariables

```
public Map getVariables(String instanceId,  
    String activityId)  
    throws ActivityNotFoundException
```

---

## getVariable

```
public Object getVariable(String instanceId,  
    String activityId,  
    String variableId)  
    throws InstanceNotFoundException,  
        ActivityNotFoundException,  
        VariableNotFoundException
```

---

## getVariables

```
public Map getVariables(String instanceId)  
    throws InstanceNotFoundException
```

---

## getVariable

```
public Object getVariable(String instanceId,  
    String variableId)  
    throws InstanceNotFoundException,  
        VariableNotFoundException
```

---

## getVariablesInitialValue

```
private Map getVariablesInitialValue(List variableDefinitions)
```

---

## getVariableDefinitions

```
public Map getVariableDefinitions(String processId,  
    String activityId)  
    throws ProcessNotFoundException,  
        ActivityNotFoundException
```

---

## getVariableDefinitions

```
public Map getVariableDefinitions(String processId)  
    throws ProcessNotFoundException
```

---

(continued from last page)

## **getXpdlProcess**

```
protected org.ow2.bonita.definition.XpdlProcess getXpdlProcess(String processId)
    throws ProcessNotFoundException
```

---

## **getInstance**

```
protected org.ow2.bonita.runtime.XpdlInstance getInstance(String instanceId)
```

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