

## Chapter 10

# Available Workflow Event Descriptors

This chapter contains an extract of the Javadocs for the event descriptor classes. Only the methods that are meant to be used inside a work item are documented.

This chapter contains the following sections:

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## Class `EMailEventDescriptor`

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```
public class
net.juniper.smgmt.net.juniper.smgmt.workflow.engine.adapters.EMailEvent
Descriptor extends
net.juniper.smgmt.net.juniper.smgmt.workflow.engine.EventDescriptor
```

This event descriptor holds the information that allows the E-mail Adapter to properly generate events to the interested work items. The adapter uses a set of key-value pairs to decide which work items it sends an event to when an e-mail is received. A descriptor is created when a message has been parsed.

The criterion is the session information encapsulated in an e-mail message; that is, the `InputParameters` of a Send Email work item.

The result is the information that is expected back; that is, the `OutputParameters` of both e-mail work items.

The adapter then tries to match this event with the descriptors provided by the work items. When a match is made, the event is sent to the source of the event descriptors. More than one match can be made. A copy of the event will be sent to each work item that provided a matching event descriptor.

#### Constructor Detail

##### **EEmailEventDescriptor**

**public EEmailEventDescriptor()**

#### Method Detail

##### **addCriteria**

```
public void addCriteria(java.lang.String key,
                       java.lang.String value)
```

Adds new criteria. The key is the name of the parameter, and the value is its value as in the session information in the message.

Parameters:

Key – java.lang.String

Value – java.lang.String

##### **getCriteria**

```
public java.util.Properties getCriteria()
```

Returns the set of criteria embedded in the event descriptor.

Returns: java.util.Properties

##### **getResult**

```
public java.lang.String getResult(java.lang.String key)
```

**Get a result parameter given its name.**

**Returns: java.lang.String[]**

## Class ProcessEventDescriptor

```
public class net.juniper.smgmt.workflow.engine.adapters.ProcessEventDescriptor
    extends net.juniper.smgmt.workflow.engine.EventDescriptor
```

This event descriptor holds the information that starts an external process and receives back some results when used with the ProcessAdapter. The communication to and from the process is made through the token.

When a descriptor is created by a work item, it carries the input token to that process, and when it comes back from the event adapter, it carries the output token. The use of the token is optional, but if you do not use it as an input, then you are forbidden to use it as an output.

The input token does not need to be an exact copy of the work item input token, because it may contain only the attributes relevant to the external process. In the same sense, the output token may contain only the attributes created or modified by the process. The success or failure of the process is encoded in the token.

#### Constructor Detail

##### ProcessEventDescriptor

```
public EMailEventDescriptor()
```

#### Method Detail

##### getCmdLine

```
public java.lang.String getCmdLine()
```

Gets the command line used to start the external process. If the process fails to execute, the cause is reported here.

Returns: java.lang.String

##### getExecuted

```
public boolean getExecuted()
```

Returns true if the process was able to execute and terminate normally. It does not mean that it was successful, which is encoded in the token.

Returns: boolean

##### getToken

```
public net.juniper.sgmt.workflow.WFToken getToken()
```

Gets the token embedded in the descriptor. It contains the token produced by the executed process.

Returns: net.juniper.sgmt.workflow.WFToken

##### setCmdLine

```
public void setCmdLine(java.lang.String newCmdLine)
```

Sets the command line used to start the external process.

Parameters: newCmdLine - java.lang.String

##### setToken

```
public void setToken(net.juniper.sgmt.workflow.WFToken newToken)
```

Sets the token embedded in the descriptor. This token is sent to the external process.

Parameters: newToken - net.juniper.sgmt.workflow.WFToken

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## Class TimerEventDescriptor

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```
public class net.juniper.smgmt.workflow.engine.adapters.TimerEventDescriptor
    extends net.juniper.smgmt.workflow.engine.EventDescriptor
```

This is a timer event. The duetime property contains the instant that the work item requires the event to be issued by the adapter.

### Constructor Detail

```
TimerEventDescriptor  
public EMailEventDescriptor()
```

### Method Detail

#### **getDuetime**

```
public long getDuetime()
```

Gets the due time.

Returns: long

#### **setDuetime**

```
public void setDuetime(long newDuetime)
```

Sets the due time.

Parameters: newDuetime - long

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