

# Decision Tool Plugin

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## Usages

- **Decision Tool Plugin** is used in a route in a process flow to decide the next transition to flow to after the route.
- Decision Tool Plugin will override the transition rule in the process flow if mapped to a route.
- A useable Decision Tool Plugin must extend [org.joget.workflow.model.DecisionPluginDefault](#) abstract class.

## Abstract Class

### [org.joget.workflow.model.DecisionPluginDefault](#)

- Under wflow-wfengine module
- Extended [org.joget.plugin.base.ExtDefaultPlugin](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- Implemented [org.joget.plugin.property.model.PropertyEditable](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- A base abstract class to develop a Decision Tool Plugin.

### Method Detail

#### Abstract Methods

[getDecision](#)

```
public DecisionResult getDecision(String processDefId, String processId, String routeId, Map<String, String> variables);
```

Return the DecisionResult based on the current process state.

#### Parameters

- processDefId - the process definition id
- processId - the process instance id
- routeId - the route id of this tool mapped
- variables - the workflow variables values

**Return** [org.joget.workflow.model.DecisionResult](#)

## POJO Class

### [org.joget.workflow.model.DecisionResult](#)

### Method Detail

#### Getter/Setter Methods

[getIsAndSplit](#)

```
public Boolean getIsAndSplit();
```

The split type of next transitions is AND

setsAndSplit

```
public void setIsAndSplit(Boolean isAndSplit);
```

Set the split type of next transitions to AND

getAuditData

```
public String getAuditData();
```

The data to be store to audit trail table

setAuditData

```
public void setAuditData(String auditData);
```

Set the data to be store to audit trail table

getVariables

```
public Map<String, String> getVariables();
```

The workflow variable and its value to be update

setVariable

```
public void setVariable(String name, String value);
```

Set the workflow variable & value to update

getTransitions

```
public Collection<String> getTransitions();
```

The transitions name/id to flow to after the route

addTransition

```
public void addTransition(String idOrName);
```

Add transition id/name to the list of transitions to flow to after the route.

## Related Community Plugins

- **Bean Shell Decision Tool**  
org.joget.apps.app.lib.BeanShellDecisionPlugin (wflow-core)
- **Simple Rules Decision Tool**  
org.joget.apps.app.lib.RulesDecisionPlugin (wflow-core)