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Welcome to Bonita Open Solution!


Use this QuickStart Guide to get started with Bonita Open Solution and become familiar with designing a process with its graphic tools.

Download, install, and launch Bonita Open Solution 5.1

Download Bonita All-in-One. When the zipped folder has been downloaded, extract all files. To launch Bonita Open Solution and begin designing a process:

- open the unzipped bonita-all-in-one folder (if you have not installed a shortcut icon on your desktop),
- launch the BonitaStudio application file for your operating system.

QuickStart Overview and Tutorial

The Overview may help you to begin working with Bonita Open Solution quickly, particularly if you are already familiar with Bonita. After the Overview is a Tutorial that will take you through creating, running, and managing a Process step by step.

QuickStart Overview

You can also go directly to User Experience ( on the Tool Bar) where existing Processes and Cases are managed.
Bonita Studio

When you click New to enter Bonita Studio, the Whiteboard is ready to begin:

1. Draw your Process directly on the Whiteboard

2. Begin with a Start and the first Step
   - Click the Step to use the Context Palette
   - Or use the Palette to activate the Tools – click the element, drag to the Whiteboard

3. Define Details for the selected element, including:
   - Name
   - Step Type (Human, Automatic, Subprocess)
   - Process (global) and Step (local) Data variables
   - Step Actors (Group, Individual)
   - Connectors (to external systems)
   - Transition Conditions (if-then)

4. Click Run to deploy a completed Process

5. Click User Experience to start and manage Process Cases

Figure 2. Bonita Studio ready to design a new Process
Bonita User Experience:

Processes and cases can be managed in an email-like interface with:
- Stars
- Labels
- Read and unread options

Figure 3. Bonita User Experience provides an in-box to manage Processes and Cases
QuickStart Tutorial

Follow the QuickStart tutorial example to:

- Design a complete Process graphically in Bonita Studio, as you
  - Draw Steps and Transitions using the graphic tools in the Bonita Studio Palette
  - Create an iteration and add a Gate
  - Add Conditions to Transitions
  - Add Details to the Process (global variables) and to Individual Steps (local variables)
- Run the Process you create
- Complete a Process Case and interact with the manual Steps
- See the Process, and the Cases you will create, in Bonita User Experience

Prepare to Design a Process Graphically in Bonita Studio

Design a simple process, Web Purchase:

1. A customer orders an item from a web store.
2. A company sales employee processes the request manually (approves it, rejects it, or adds more information to the order).
3. If/when the customer's order is approved, he/she pays for the order.
4. The customer chooses whether to have the item shipped by Express Delivery.
5. The transaction is archived.

The Process will look like this when completed:

![Completed Web Purchase Process](image)

Figure 4. Completed **Web Purchase** Process

(It might be helpful to keep this handy as you design the Process.)
Launch Bonita Studio


Draw Steps and Transitions

Start by defining the Steps to create a Web Purchase process.

The first step in this Process is to review and process a customer’s order. (In this tutorial, you’ll define the customer order after defining the process to handle it.)

Click the initial Step, if necessary, to highlight it. Note that its Context Palette is highlighted too.

![Figure 5. Begin a new Process with a Start and a Step](image)

Go to the Details panel, click General if necessary to highlight it, and enter:

![Figure 6. Enter General Details for Sales Review](image)
Before adding the next Steps, define who will take action in this Step - the Actor(s). (For the purpose of this tutorial, the Actor(s) defined for the initial Step will be defined as the Process Initiator. For all other Human (manual) Steps, the Actor will be the admin (you). This will give you full access to test all interactive parts of the process, as if you were an end user, after you Run it.)

Click the Actors in Details for Sales Review:

![Image of creating a group of actors for Sales Review]

Figure 7. Create a Group of Actors for Sales Review

Complete the wizards:

![Image of selecting a connector for the group]

Figure 8. Select the option to manually enter names for a User List

Select Bonita and User List

Select Group and Create
Figure 9. Name the Group

![User List window with Name set to Sales Employees and Description set to Employees authorized to handle web sales.]

Enter
Name: Sales Employees
Description: Employees authorized to handle web sales

Figure 10. Define the Actors in this Group

![User List window with Names or variable set to admin,john,james,jack.]

Enter
Users: admin,john,james,jack
The Group you just created will now show in the list of Groups available for this Step.

Figure 11. The newly created Group shows up in the Groups list for the Sales Review Step

You’ll come back to this Step later to add additional Details.

At this point in the process, the sales employee can choose to:

1) validate the request and the customer can pay; OR
2) reject the request; OR
3) enter more information relevant to the customer’s order.

Accordingly, next add 3 Steps, all connected to Sales Review.

Sales Review should still be highlighted. (If not, click it.) The Context Palette to the right of the Step is highlighted too.

Figure 12. Use the Context Palette to draw new elements on the Whiteboard
Be sure that the new Step is highlighted. Go to **Details** and click **General** to name it:

![Diagram of Step highlighting and naming process](image)

**Figure 13.** Name a new Step and enter its General Details

Click on **Actors** to define:

![Diagram of Actors definition](image)

**Figure 14.** Define the Actors for this Step

- **Enter**
  - **Name**: Pay
  - **Description**: Customer completes credit card payment form
  - **Activity type**: Human
  - **Priority**: Normal
Now add the other 2 Steps connected to Sales Review. First, **Reject**. In Details -> General:

![Diagram showing the Add Reject Step and define its General Details]

**Figure 16. Add Reject Step and define its General Details**

- **Name**: Reject
- **Description**: Request is rejected
- **Activity type**: Automatic

**Figure 15. Select the Process Initiator as the Actor for this Step**
Then, **More Info**. In **Details -> General**: 

![Diagram](image1)

**Enter in General**
- **Name**: More Info
- **Description**: Sales employee enters additional information
- **Activity type**: Human
- **Priority**: Normal

**Figure 17. Add More Info Step and define its General Details**

Then in **Details -> Actors -> Group**, select **Choose**:

![Diagram](image2)

**Figure 18. Choose the Group of Actors for More Info**
Complete the **Assign Actors** wizard:

![Assign Actors Wizard](image)

**Figure 19.** Select the already defined Group *Sales Employees*

You’ll add the information that determines the necessary conditions (if-then) for each of these 3 Transition paths later.
Rename the Pool from My Process to Web Purchase. Click on the Pool to deselect all elements. Click on MyProcess -> Details -> Pool:

![Diagram](image)

Figure 20. Rename this Pool

Rename the Process Diagram from MyProcessDiagram to Web Purchase Diagram. Click outside the Pool to deselect all elements. Click on MyProcessDiagram -> Details -> Diagram:

![Diagram](image)

Enter
Name: Web Purchase
Version: 1.0
Description: Simple item purchase from Web site - tutorial example

Figure 21. Rename this Process Diagram
Save the Process. The Whiteboard tab is now labeled **Web Purchase Diagram (1.0)** and the Pool is now labeled **Web_Purchase**. Continue the Process definition.

As the customer completes the Pay Step, he/she will choose whether the item is to be sent express. Click **Pay** and use the Context Palette to add a new Step. Name it **Express Delivery**.

![Diagram showing the Pay Step and Express Delivery Step]

Figure 22. Add **Express Delivery** Step and define its General Details.

**Enter**
- **Name**: Express Delivery
- **Description**: Send item via 3-day delivery
- **Activity type**: Automatic
End this Process by archiving the interaction. Add a Step after Express Delivery, go to Details -> General, and name it Archive.

![Diagram showing process flow]

Figure 23. Add Archive Step and define its General Details

Now that all the Steps have been defined, add the Transitions to connect them.

As “no-express-delivery” requests will also be archived, add a Transition between Pay and Archive. Select ➔ Transition from the Palette, click Pay and drag the arrow to Archive.

As rejected requests will also be archived, add a Transition between Reject and Archive. Select ➔ Transition, then Reject and drag to Archive.

End the process – highlight Archive and add an End.
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Click and drag the individual elements in your Process to rearrange them if you wish. Unruly transition arrows can be moved manually by selecting the Transition, and clicking or unclicking the Automatic layout box in its Details.

![Diagram of Process elements]

Figure 24. Add an End and rearrange the Process elements on the Whiteboard

The general sequence of the Process is nearly defined. Now add missing information to complete it.

Create an Iteration and add an XOR gate

Note that More Info has an input but no output. In this simple tutorial example Process, the output will be returned to the sales employee so he/she can add information and complete the approval.

However, Sales Review will then have two inputs. A Gate will define how these inputs should be treated. Sales Review can proceed with either input, so an XOR Gate is needed.

![Diagram of XOR Gate setup]

- Select Gate from Palette and place it on the Whiteboard.
- Change Gate Type to XOR.
- Draw Transition between More Info and Gate. (Select \(\rightarrow\) from the Palette, click More Info and drag the arrow to Gate.)
- Delete Transition Start - Sales Review (with a right click or with Delete on the keyboard)
- Draw new Transition Start - Gate.
- Draw new Transition Gate - Sales Review.

Figure 25. Add an XOR Gate

Note: If there is no XOR gate to resolve multiple inputs, Bonita Open Solution treats them as XOR by default. The Step will take the first to arrive and proceed.
Add Conditions to Transitions

Note that Sales Review has 3 outputs, and each Case of the Process will follow only one of them. One way to define how a Process will “choose” to follow which path is to define specific Data in the Details of Sales Review. Then define a Condition for each Transition.

Select Sales Review and in its Details, add Data:

![Diagram of Sales Review Details]

Figure 26. Add Data to Details for Sales Review

In the next wizard, define the Data type as a list, give it a name, and add the list items.
Add a new variable
Create a new variable for this process (global) or this task (local)

<table>
<thead>
<tr>
<th>Name</th>
<th>decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Multiple options require a decision</td>
</tr>
</tbody>
</table>

Data type: List

<table>
<thead>
<tr>
<th>Name</th>
<th>Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Multiple options require a decision</td>
</tr>
</tbody>
</table>

List:

- Approve
- Reject

Add an item:

<table>
<thead>
<tr>
<th>Item name</th>
<th>More Info</th>
</tr>
</thead>
</table>

**Enter**
Name: decision
Description: Multiple options require a decision

**Select**
Data type: List
Name: Approval
Description: Decision to approve, reject, or add more info

**Add**
Approve, Reject, and More Info

Figure 27. Define a list for Sales Review
Figure 28. Select a default value for the List

The list variable now shows in **Sales Review -> Details -> Data**.

Figure 29. Newly created Data (variable) shows up in Data for this Step
Associate each Transition output from Sales Review with its associated decision Condition. Select each Transition in turn:

![Transition details](image)

**Sales Review - Pay:**
- Name: if approved
- Conditions: decision=="Approve"

**Sales Review – Reject:**
- Name: if not approved
- Conditions: decision=="Reject"

**Sales Review - More Info:**
- Name: add a comment
- Conditions: decision=="More Info"

Figure 30. Define Conditions for Transitions

The Name of each Transition now shows on the Process. Click and drag to move them if you wish.

![Transition names](image)

Figure 31. Transition Names appear on Whiteboard

Note that Pay has two outputs, too. You’ll return to modify its Details in a similar way. But first...
Add Details to Process/Steps

Complete the Details, beginning with Data, for the global Process Web Purchase. This information will be used to generate the form that the customer completes to begin the process. Global data is accessible to any Step in the Process; while local data is available only to the Step where it is defined.

Add 4 global Data variables: 3 Text and one List. Click on the Pool, go to Web Purchase Details, select Data, then Add.

Figure 32. Add Data to Details for Web Purchase Process (global variable)

Continue, and Add customerPhone and customerEmail as simple Text variables with no default values.
For the last variable, add a List.

![Add new variable dialog box](image)

**Figure 33.** Define a list at Process level (global list variable)

- **Enter**
  - Name: products
  - Description: Available products

- **Select**
  - Data type: List
  - Name: Promotional Products
  - Description: Special prices online

- **Add**
  - TV
  - mobile phone
  - laptop
Select a default:

![Add a new variable dialog box](image)

Figure 34. Select a default value for the list

Note that **Web Purchase -> Details -> Data** now contains 4 global variables.

![Data variables](image)

Figure 35. Newly created Data (variables) show up in Data for the Process
Now complete the details for the More Info and Pay Steps:

Go to More Info -> Data and select Add:

![Add a new variable](image)

**Enter**
- **Name**: comment
- **Description**: Additional information supplied by sales employee
- **Data type**: Text

Figure 36. Add Data to Details for More Info

The new variable now shows in Details.

![More Info Details](image)

Figure 37. Newly created Data (variable) shows up in Data for this Step
Go to Pay ->Data and select Add.

Add 2 text variables and 1 Boolean variable:

Add 2 text variables:
- **Name**: creditCardNumber
- **Description**: Customer's Credit Card
- **Data type**: Text

and

- **Name**: expirationDate
- **Description**: Card valid until
- **Data type**: Date
- **Default value**: Now

And Add a Boolean yes/no for the choice of express delivery:

- **Name**: chooseExpressDelivery
- **Description**: If yes – send express; if no – send regular post
- **Data type**: Boolean
- **Default value**: true

![Figure 38. Newly created Data (variables) show up in Data for this Step](image-url)
Here is where you'll define the conditions for each output path.

Add “if-then” **Conditions** to 2 **Transitions**.

Select the **Transition** between Pay and Express Delivery.

**Figure 39. Add a Condition to a Transition**

Select the **Transition** between Pay and Archive. Change its name to “if no.” In the **Conditions** field, enter `chooseExpressDelivery == false`.

The Name of each Transition now shows on the Process.

**Figure 40. Transition Names appear on Whiteboard**

The Process is now complete and ready to deploy/run. **Be sure to save your Process.** “Run” will always run the last saved version.
Run a Process

To Run (deploy) your process, click the Run icon from the Task bar or select Run from the Menu bar.

After a few moments, Bonita Open Solution will present a series of status messages. The deployment is successful. Note that you are logged in as the Admin.

The Process can now run Step by Step. The forms are presented in the default Bonita Form and default Bonita Web Application, which you have not customized in this tutorial.

The deployment is successful.

Figure 41. *Web Purchase* Process Case initial form (customer order form)

At each Step, you can take action as you have previously defined it. (Note that you as Administrator are testing the manual actions of the Customer (Initiator) at the beginning of the Process and at Pay, and of the Sales Employee at *Sales Review* and *More Info.*)

Figure 42. Fill in *Web Purchase* Process customer order form to start a Case
The information entered by the “customer” is presented for approval in the Sales Review Step. You can now Approve, Reject, or request to enter More Information. Note that the Step candidates include the individuals you have identified as Sales Employees, plus the admin.

Figure 43. Choose a Decision at Sales Review Step

Figure 44. Fill in form presented at More Info Step
As “Sales Employee”: select Approve and Submit

Figure 45. Fill in form presented (again, after iteration) at Sales Review Step

As “Customer”: Fill in Credit Card Number and Expiration Date, select Express Delivery and Submit

Figure 46. Fill in form presented at Pay Step

Note that at this step, the form would be presented to the Initiator, but by default the admin has access to activate it.
Figure 47. **Web Purchase** Case completed

Click on **Bonita User Experience** (circled in red) to open.
Complete a Process Case

Use Bonita User Experience to run multiple Cases of this Process. Note that you can also open the User Experience by clicking on the User XP icon on the Task bar in Bonita Studio.

Your inbox now contains a record of all the actions you have been involved in. You can look at these actions at any time.

Figure 48. Bonita User Experience with completed Web Purchase Process test Case
Click the case to expand it.

**Figure 49. Web Purchase Process test Case expanded**
To see the entire Process, including Automatic Steps, Start, End, and Gates, go to Admin -> Cases on the left side of the window. Again click on Web Purchase to expand it.

Figure 50. See the entire Case History with the Admin function
To run this Process again:

![Image of Bonita User Experience]

**Figure 51.** Start another Case for the Web Purchase Process

The Process starts again with a new Case.

![Image of Bonita User Experience]

**Figure 52.** Fill in web purchase process customer order form to start a new case

Try running several Cases to try different choices at each Step.
Summary

You have used only some of Bonita Open Solution's functions, specifically:

The graphical interfaces of Bonita Studio, to create a complete Process by
- drawing Steps and assigning them as Human or Automatic;
- assigning Actors to Human Steps;
- adding global variables to the Process and local variables to Steps, which in turn have been
  used to create interactive forms;
  - defining text and list variables;
  - defining a Boolean variable;
- defining Conditions on Transitions to manage multiple output choices from a Step; and
- defining a Gate to manage multiple inputs to a Step in an iteration.

The forms interface of Bonita User Experience:
- to Run a completed Process and enter information into the interactive forms created from
  your variables.

The e-mail like interface of Bonita User Experience:
- to see the completed Case Steps;
- to consult the Case history
- to Run an additional Case (or two, or several) of your Process.

If you explore a bit more in Bonita Open Solution, you will find other functionalities not addressed in
this QuickStart - for example, in the Details for a Step, you can define Connectors to link to external
databases and to messaging systems; you can customize the way data is presented in Forms; and
much more.

Feedback, Questions, and More Information

For an expanded explanation of the functionalities in Bonita Open Solution, see the Bonita Open
Solution User Guide.

We welcome your feedback. Use the BonitaSoft Forum to let us have it!
(www.bonitasoft.org/forum)

The BonitaSoft Forum is the place for your questions too. And check out our Bug Tracker, Source
Code, and more.
(www.bonitasoft.org/index.php)

Join the BonitaSoft Community and get our Newsletter, access to advance information, and more.
(www.bonitasoft.com/community/join.php)

For more information, contact us at BonitaSoft.
(www.bonitasoft.com/company/contact.php)

*Have fun with Bonita!*