

Bonita Community Edition



Reinvent and automate your business processes

with the Bonita open source Digital Process Automation platform.

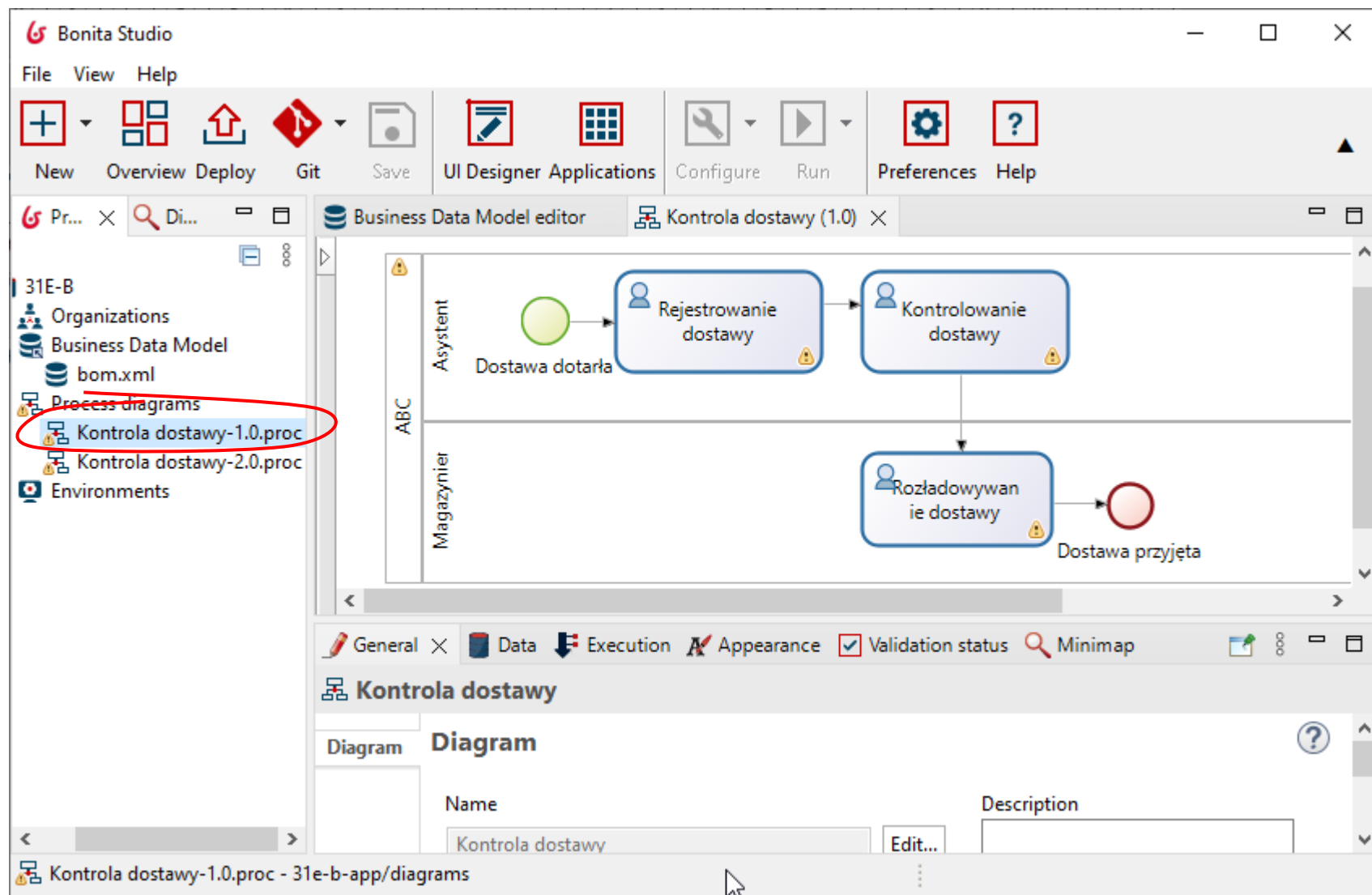
Deliver automation projects rapidly and continuously and increase visibility for insights to improve your processes.

UI Designer
Programowanie

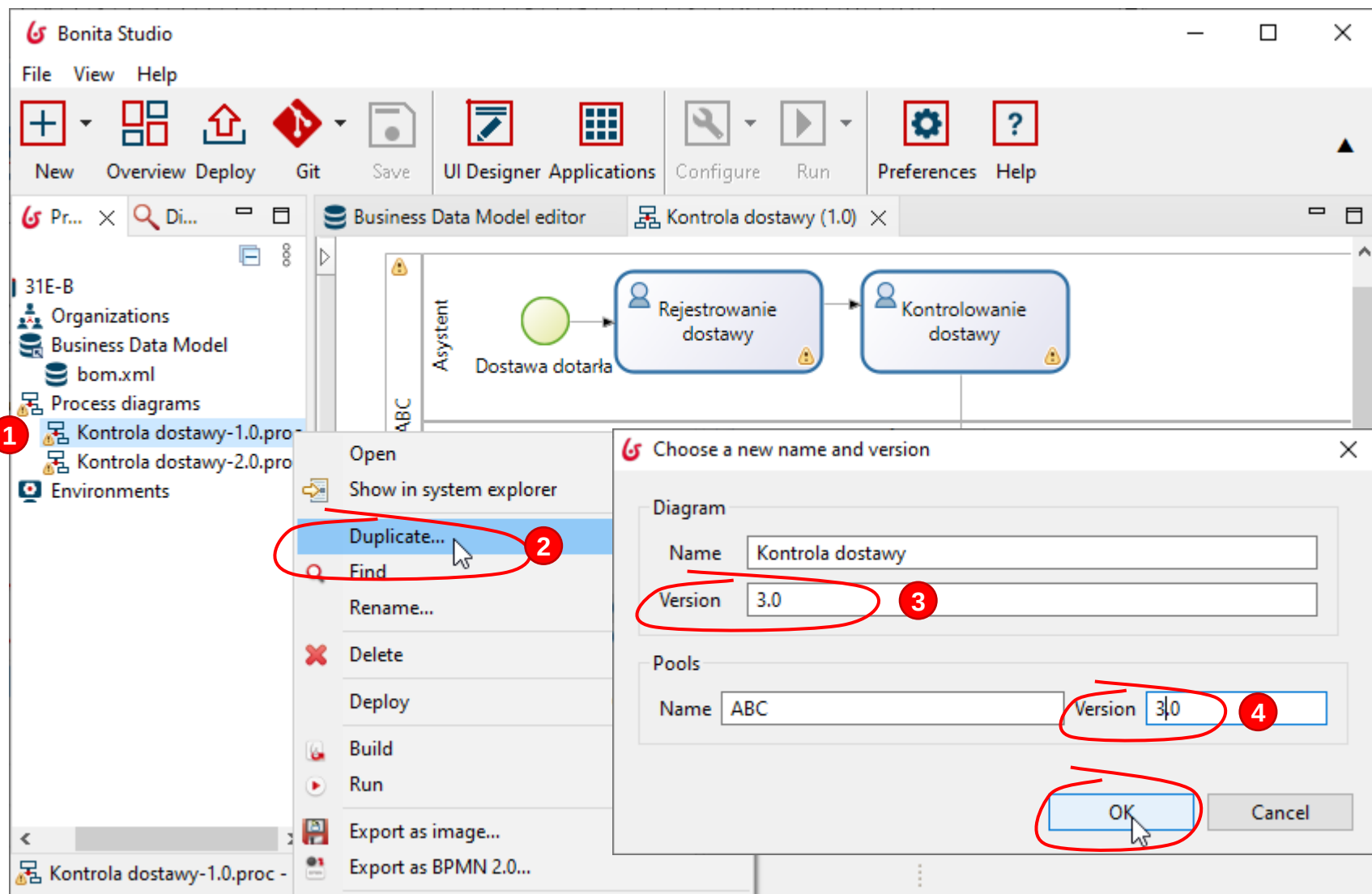
Bonita Studio

Proces wersja 3

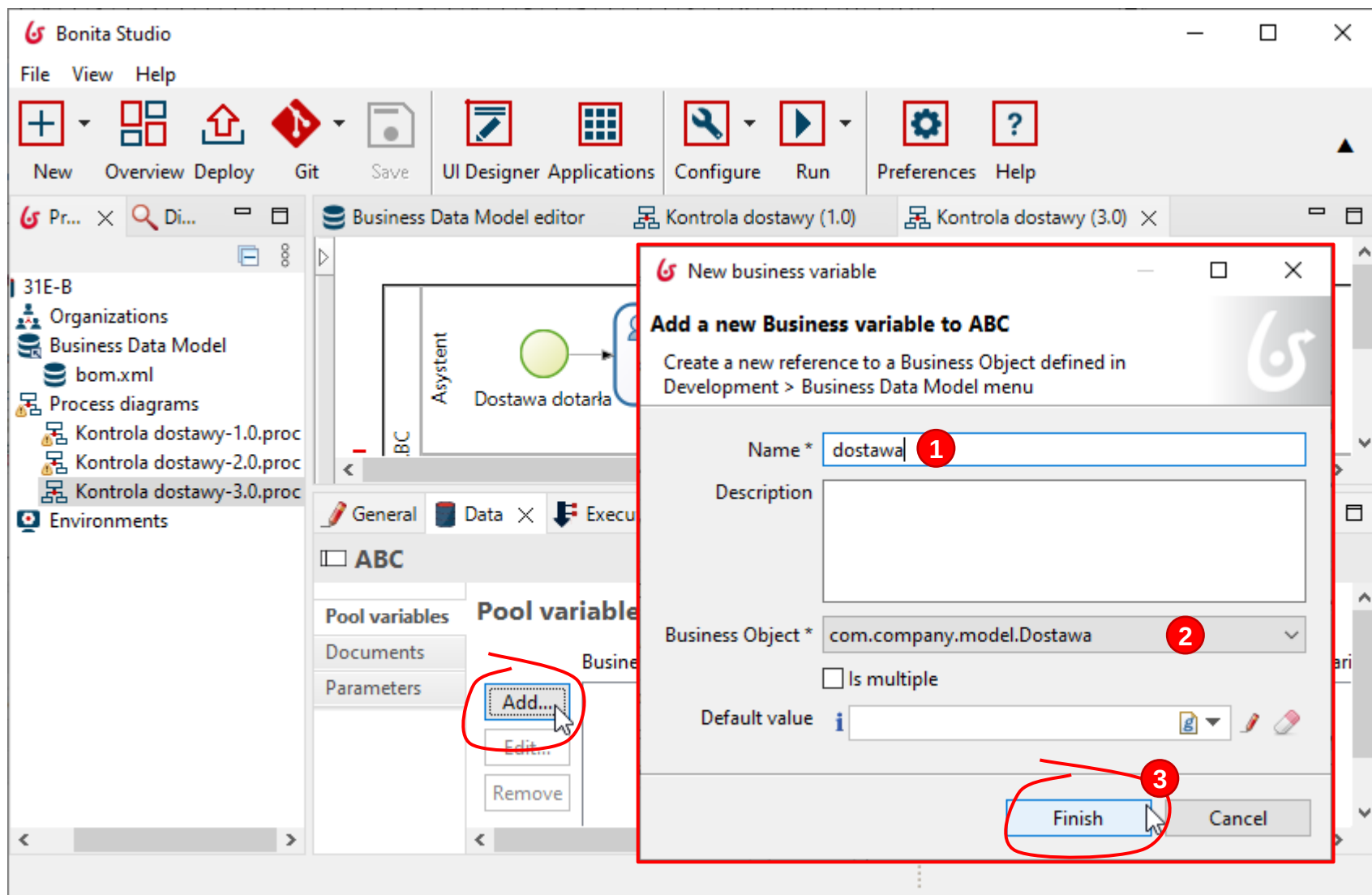
Kontrola dostawy 1.0



Kontrola dostawy 3.0 (na podst. 1.0)



Bonita – zmienne biznesowe



Bonita – zmienne biznesowe

The screenshot displays the Bonita Studio application window. The top menu bar includes File, View, and Help. Below it is a toolbar with icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace is divided into several panes. On the left is a project explorer showing a tree structure with folders like Organizations, Business Data Model, bom.xml, Process diagrams, and Environments. The central pane shows a process diagram with a flow from 'Asystent' to 'Dostawa dotarła', then to 'Rejestrowanie dostawy', and finally to 'Kontrolowanie dostawy'. The bottom pane is titled 'Pool variables' and contains a table of business variables. A red circle highlights the 'Add...' button and the variable 'dostawa -- com.company.model.Dostawa'.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Pr... Di...

Business Data Model editor Kontrola dostawy (1.0) *Kontrola dostawy (3.0)

31E-B

- Organizations
- Business Data Model
- bom.xml
- Process diagrams
- Kontrola dostawy-1.0.proc
- Kontrola dostawy-2.0.proc
- Kontrola dostawy-3.0.proc
- Environments

Asystent

Dostawa dotarła

Rejestrowanie dostawy

Kontrolowanie dostawy

General Data Execution Appearance Validation status Minimap

ABC

Pool variables

Documents

Parameters

Business variables Define Business Data Model

Add... Edit... Remove

dostawa -- com.company.model.Dostawa

Add... Edit... Remove

Bonita – kontrakt & kontekst (contract & context)

Kontekst (context)

zawiera odwołania do danych biznesowych i dokumentów, którymi manipuluje w trakcie realizacji instancja procesu

Kontrakt (contract)

definiuje dane niezbędne do:

- rozpoczęcia procesu (*instantiation contract*)
- wykonania zadania użytkownika (*task contract*)

instantiation contract	task contract
pozwala na zdefiniowanie formularza umożliwiającego:	
▪ rozpoczęcie procesu (<i>instantiation form</i>)	▪ edycję danych (<i>task form</i>)
pozwala na pobranie danych z formularza za pomocą:	
▪ skryptu inicjalizującego zmienną biznesową	▪ operacji (<i>operations</i>)

Kontrakty w zadaniach użytkownika

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The left sidebar shows a project tree with '31E-B' and 'Business Data Model' folders, containing files like 'bom.xml' and 'Process diagrams'. The main canvas shows a process diagram with a task 'Rejestrowanie dostawy' (labeled 1) and a connector 'Dostawa dotarła'. The bottom panel shows the 'Rejestrowanie dostawy' task configuration. The 'Contract' tab (labeled 2) is selected, showing 'Task Inputs'. The 'Add from data...' button (labeled 3) is highlighted. The 'Inputs' table is empty.

Rejestrowanie dostawy

Connectors in

Contract (2)

Form

Operations

Connectors out

Task Inputs

Inputs Constraints

You can first define [business variables](#) and/or [documents](#), and then click on "Add from data...". It will automatically map contract inputs to data, and create operations to update data with contra

Add from data... (3)

Name *	Type	Multiple	Description
Add			
Add child			

Kontrakty

 Add Contract input

Select the data and the action to perform

Select the business variable or document which the contract inputs will be created as well as the action to perform.

☒ Variable ☐ Document

Action ☒ Instantiate ☐ Edit

dostawa -- com.company.model.Dostawa

Input name of type COMPLEX

The variable will be instantiated with the contract input value.

zmienna zostanie utworzona na podstawie kontraktu domyślnie dla: instantiation contract

 Add Contract input

Select the data and the action to perform

Select the business variable or document which the contract inputs will be created as well as the action to perform.

☐ Variable ☒ Document

Action ☐ Instantiate ☒ Edit

dostawa -- com.company.model.Dostawa

The existing values for the variable will be retrieved from the context, and edited with the contract inputs.

wartości zmiennej zostaną pobrane z kontekstu i edytowane przy użyciu kontraktu domyślnie dla: task contract

Kontrakt w zadaniu Rejestrowanie dostawy

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor Kontrola dostawy (1.0) *Kontrola dostawy (3.0)

31E-B
Organizations
Business Data Model
bom.xml
Process diagrams
Kontrola dostawy-1.0.proc
Kontrola dostawy-2.0.proc
Kontrola dostawy-3.0.proc
Environments

General Data Execution

Rejestrowanie dostawy

Connectors in Contract Form Operations Connectors out

Task Inputs

Inputs Constraints

You can first define b...
It will automatically r...

Add from data...
Add
Add child

Add Contract input

Select the data and the action to perform

Select the business variable or document which the contract inputs will be created as well as the action to perform.

Data ☒ Business variable ☐ Document

Action ☐ Instantiate ☒ Edit

dostawa -- com.company.model.Dostawa

Input name dostawaInput

< Back Next > Finish & Add Finish

Kontrakt w zadaniu Rejestrowanie dostawy

Add Contract input

Select dostawa attributes to add to contract

Choose the fields you want to reuse in your contract.

Select all
Deselect all
Mandatory attributes

Attribute name	Attribute type
☒ id	STRING
☒ dostawca	STRING
☒ data_dostawy	DATE ONLY
☒ opis	STRING
☒ partia	INTEGER
☐ proba	INTEGER
☐ dopuszczalna	INTEGER
☐ niezgodnych	INTEGER
☐ status	STRING

More information about [Contract and Form generation](#).

From the contract definition, the Studio can automatica...erate operations to store or update busines:
You can then modify these operations if necessary.

☒ Auto-generate storage operations
☐ No, thanks. I'll manually define how to use the contract.

< Back Preview > Finish & Add **Finish** Cancel

nie wybrano atrybutów:

- proba
- dopuszczalna
- niezgodnych
- status

Kontrakt w zadaniu Kontrolowanie dostawy

The screenshot displays the Bonita Studio interface with the 'Kontrolowanie dostawy' task selected. A red box highlights the 'Add Contract input' dialog, which is used to configure the contract input for the task. The dialog includes the following elements:

- 1**: Points to the task 'Kontrolowanie dostawy' in the process diagram.
- 2**: Points to the 'Contract' tab in the 'Task Inputs' panel.
- 3**: Points to the 'Add from data...' button in the 'Task Inputs' panel.
- 4**: Points to the 'Next >' button at the bottom of the dialog.

The 'Add Contract input' dialog contains the following fields and options:

- Select the data and the action to perform**: Select the business variable or document which the contract inputs will be created as well as the action to perform.
- Data**: ☒ Business variable, ☐ Document
- Action**: ☐ Instantiate, ☒ Edit
- Data source**: dostawa -- com.company.model.Dostawa
- Input name**: dostawaInput
- Buttons**: < Back, Next >, Finish & Add, Finish

Kontrakt w zadaniu Kontrolowanie dostawy

Add Contract input

Select dostawa attributes to add to contract

Choose the fields you want to reuse in your contract.

Select all
Deselect all
Mandatory attributes

Attribute name	Attribute type
☒ id	STRING
☒ dostawca	STRING
☒ data_dostawy	DATE ONLY
☒ opis	STRING
☒ partia	INTEGER
☒ proba	INTEGER
☒ dopuszczalna	INTEGER
☒ niezgodnych	INTEGER
☐ status	STRING

More information about [Contract and Form generation](#).

From the contract definition, the Studio can automatically generate operations to store or update business. You can then modify these operations if necessary.

☒ Auto-generate storage operations
☐ No, thanks. I'll manually define how to use the contract.

< Back Preview > Finish & Add **Finish** Cancel

nie wybrano atrybutu:
▪ status

Kontrakt w zadaniu Rozładowywanie dostawy

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Pr... Di...

Business Data Model editor Kontrola dostawy (1.0) *Kontrola dostawy (3.0)

31E-B

- Organizations
- Business Data Model
- bom.xml
- Process diagrams
- Kontrola dostawy-1.0.proc
- Kontrola dostawy-2.0.proc
- Kontrola dostawy-3.0.proc
- Environments

Magazynier

General Data Execution

Rozładowywanie dostawy

Connectors in

Contract

Form

Operations

Connectors out

Task Inputs

Inputs Constraints

You can first define it will automatically

Add from data...

Add

Add child

Add Contract input

Select the data and the action to perform

Select the business variable or document which the contract inputs will be created as well as the action to perform.

Data ☒ Business variable ☐ Document

Action ☐ Instantiate ☒ Edit

dostawa -- com.company.model.Dostawa

Input name dostawaInput

< Back Next > Finish & Add Finish

Kontrakt w zadaniu Rozładowywanie dostawy

Add Contract input

Select dostawa attributes to add to contract

Choose the fields you want to reuse in your contract.

Select all
Deselect all
Mandatory attributes

Attribute name	Attribute type
☒ id	STRING
☒ dostawca	STRING
☒ data_dostawy	DATE ONLY
☒ opis	STRING
☒ partia	INTEGER
☒ proba	INTEGER
☒ dopuszczalna	INTEGER
☒ niezgodnych	INTEGER
☒ status	STRING

More information about [Contract and Form generation](#).

From the contract definition, the Studio can automatica...erate operations to store or update busines:
You can then modify these operations if necessary.

☒ Auto-generate storage operations
☐ No, thanks. I'll manually define how to use the contract.

< Back Preview > Finish & Add **Finish** Cancel

wybrano wszystkie
atrybuty

Kontrola dostawy 3.0

The screenshot shows the Bonita Studio interface. The top menu bar includes 'File', 'View', and 'Help'. Below it is a toolbar with icons for 'New', 'Overview', 'Deploy', 'Git', 'Save', 'UI Designer Applications', 'Configure', 'Run' (circled in red), 'Preferences', and 'Help'. The main workspace displays a process diagram with a task named 'Rozładowywanie dostawy' (Unloading of goods) and a connector labeled 'Dostawa przyjęta' (Goods received). The left sidebar shows a project tree with '31E-B' and 'Organizations'. The bottom panel shows the 'Task Inputs' section for 'Rozładowywanie dostawy', with a table listing inputs.

Task Inputs				
Inputs Constraints				
You can first define business variables and/or documents , and then click on "Add from data...". It will automatically map contract inputs to data, and create operations to update data with contra				
Add from data...	Name *	Type	Multiple	i Description
Add	> dostawaInput	COMPLEX	☐	
Add child				

Kontrola dostawy 3.0

The screenshot displays the Bonita User Application interface in a web browser. The browser's address bar shows the URL `localhost:8080/bonita/apps/userAppBonita/task-list/`. The application header includes the Bonita logo, the text "Bonita User Application", and the user name "Jan Kowalski". A navigation bar at the top contains tabs for "Tasks", "Cases", and "Processes".

On the left side, there is a sidebar with a back arrow and three task categories: "To do" (1), "My tasks" (1), and "Done tasks". The main content area is divided into two sections. The left section, titled "Filters", includes a "Process" dropdown set to "All", a "Case" input field with "Case ID", and a search bar. The right section, titled "Task list", shows a table with one task: "Rejestrowanie dostawy" (ABC). Above the table are buttons for "Take" and "Release", and a "1 - 1 / 1" indicator.

The rightmost section is a task form titled "Rejestrowanie dostawy". It contains several input fields, each with a label and a description: "dostawalInput", "id", "dostawca", "data_dostawy", "opis", and "partia". The "id" field contains "001", "dostawca" contains "XYZ", "data_dostawy" contains "2023-11-02" (with an example "2023-11-02"), "opis" contains "Podzespoły P0001", and "partia" contains "1000". At the bottom of the form is a green "Execute" button with a hand cursor icon.

Task name	Process name	Due date
Rejestrowanie dostawy	ABC	-

Field	Value
dostawalInput	
id	001
dostawca	XYZ
data_dostawy	2023-11-02
opis	Podzespoły P0001
partia	1000

Kontrola dostawy 3.0

The screenshot displays the Bonita User Application interface. The browser address bar shows the URL `localhost:8080/bonita/apps/userAppBonita/task-list/`. The application header includes the Bonita logo and the user name 'Jan Kowalski'. The main navigation bar has tabs for 'Tasks', 'Cases', and 'Processes'. The left sidebar shows a task list with 'To do' (1), 'My tasks' (1), and 'Done tasks'. The main content area is divided into two sections: 'Filters' and 'Task list'. The 'Filters' section includes a 'Process' dropdown set to 'All' and a 'Case ID' input field. The 'Task list' section shows a table with one task: 'Kontrolowanie dostawy' (ABC). A red arrow points from the text 'formularz nie jest wypełniony danymi podanymi w formularzu Rejestrowanie dostawy' to the form on the right. The form, titled 'Kontrolowanie dostawy', contains several input fields for data entry, each with a description and an example value.

Kontrolowanie dostawy

dostawalinput - <no description defined in contract for this input>
Expecting a TEXT value.

dostawoa - <no description defined in contract for this input>
Expecting a TEXT value.

data_dostawy - <no description defined in contract for this input>
Expecting a LOCALDATE value.
Example: 2023-11-02

opis - <no description defined in contract for this input>
Expecting a TEXT value.

partia - <no description defined in contract for this input>
Expecting a INTEGER value.

proba - <no description defined in contract for this input>
Expecting a INTEGER value.

dopuszczalna - <no description defined in contract for this input>
Expecting a INTEGER value.

niezgodnych - <no description defined in contract for this input>
Expecting a INTEGER value.

**formularz nie jest wypełniony danymi
podanymi w formularzu
Rejestrowanie dostawy**

UI Designer

Proces wersja 3

Przygotowanie formularzy

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor

Kontrola dostawy (1.0) *Kontrola dostawy (3.0)

31E-B

Organizacja

Business Data Model

bom.xml

Process diagram

Kontrola dostawy

Kontrola dostawy

Kontrola dostawy

Environme

General Data Execution

Rejestrowanie dostawy

Connectors in

Contract

Form

Operations

Connectors out

Form

Select the type of form after deployment

UI Designer External URL No form

Target form

If the form has not yet been created, you are recommended to define the contract first. This will enable generation of a form with the relevant widgets and data bindings for the contract inputs.

Create read-only widgets

The form generated will display widgets for all contract inputs to be filled. It can display widgets for all attributes, related to the contract inputs, that need to be displayed as read-only. Do you need read-only widgets related the contract inputs on the form?

More details

formularz może zawierać dodatkowo pola typu 'read-only'

Yes No

Edit...

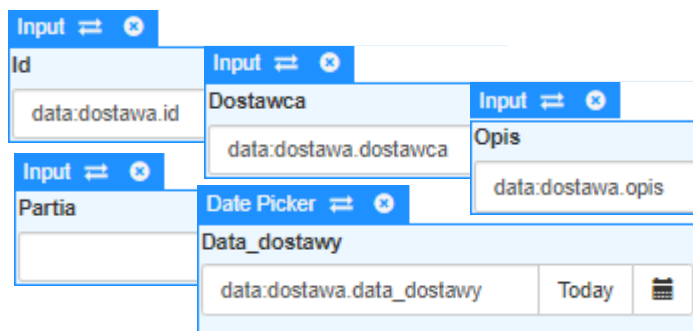
UI Designer

The screenshot shows the Bonita UI Designer interface. The top bar displays the project name "rejestrwanie30" and buttons for "Save", "Preview", and "Form Editor". The left sidebar contains a "WIDGETS" panel with various form controls like Container, Input, Text Area, Select, and Checkbox. The central canvas shows a form layout with a header section containing placeholders for task display name and description, and a section titled "Dostawa" with a table. The right sidebar shows the "INPUT" properties panel for the selected element. At the bottom, a "VARIABLES" table lists variables available in the form.

Name	Value	Type
context	../API/bpm/userTask/{{taskId}}/context	External
dostawa	../{{context.dostawa_ref.link}}	External
formOutput	if(\$data.dostawa){ return { //map dostawa var...	Javascript
submit_errors_list	if(\$data.formOutput && \$data.formOutput_su...	Javascript

- 1 projekt formularza
- 2 nazwa formularza
- 3 zapis
- 4 zestaw kontrolek (widżety)
- 5 właściwości kontrolek
- 6 zmienne dostępne w formularzu

UI Designer (kontrolki edytowalne)



kontrolki typu: Input

Value	Type
dostawa.id	Text
dostawa.dostawca	Text
dostawa.opis	Text
dostawa.partia	Number

kontrolka typu: Date Picker

Value
dostawa.data_dostawy

wartości kontrolki ze zmiennej 'dostawa', która jest pobierana z kontekstu (context)

INPUT

- Read-only: ☐ no ☐ yes
- Label hidden: ☐ no ☐ yes
- Label: `Id`
- Label position: `top`
- Label width: `1`
- Placeholder:
- Value: `dostawa.id`
- Type: `text`

DATE PICKER

- Required: ☐ no ☐ yes
- Label hidden: ☐ no ☐ yes
- Label: `Data_dostawy`
- Label position: `top`
- Label width: `1`
- Value: `dostawa.data_dostawy`
- Technical date format: `MM/dd/yyyy`

VARIABLES

Name	Value	Type
context	<code>../API/bpm/userTask/{{taskId}}/con...</code>	External API
dostawa	<code>../{{context.dostawa_ref.link}}</code>	External API

UI Designer (kontrolki read-only)

Proba

{{dostawa.proba}}

Dopuszczalna

{{dostawa.dopuszczalna}}

Niezgodnych

{{dostawa.niezgodnych}}

Status

{{dostawa.status}}

kontrolki typu: Text

Text	Hidden
dostawa.proba	!dostawa.proba
dostawa.dopuszczalna	!dostawa.dopuszczalna
dostawa.niezgodnych	!dostawa.niezgodnych
dostawa.status	!dostawa.status

kontrolki read-only dołączone ze względu na odpowiedź Yes na slajdzie:

Przygotowanie formularzy

własność Hidden ustawiona w taki sposób, żeby kontrolki były schowane jeśli nie zostały wcześniej wypełnione

TEXT

Hidden

!dostawa.proba

Label hidden

☐ no
 ☒ yes

Label

Proba

Label position

top

Label width

4

Interpret HTML

☐ no
 ☒ yes

Text

Use basic html tags (if allowed), {{dataVariable}} to access data, and filters to format it (e.g. {{dateVariable|uiDate}})

{{dostawa.proba}}

VARIABLES

Create a new variable

Search

Name	Value	Type
context	../API/bpm/userTask/{{taskId}}/con...	External API
dostawa	../{{context.dostawa_ref.link}}	External API

Kontrola dostawy 3.0

The screenshot displays the Bonita Studio application window. The top menu bar includes 'File', 'View', and 'Help'. Below it is a toolbar with icons for 'New', 'Overview', 'Deploy', 'Git', 'Save', 'UI Designer', 'Applications', 'Configure', 'Run', 'Preferences', and 'Help'. The main workspace shows a process diagram with a start event 'Dostawa dotarła', followed by a task 'Rejestrowanie dostawy', and then another task 'Kontrolowanie dostawy'. The 'Rejestrowanie dostawy' task is selected, and its configuration panel is open on the right. The panel has tabs for 'General', 'Data', 'Execution', 'Appearance', 'Validation status', and 'Minimap'. The 'Form' tab is active, showing a message: 'Select the type of form used to fulfill the contract. Subscription edition: With "Live Update", you can update your proc form after deployment.' Below this, there are three radio buttons: 'UI Designer' (selected), 'External URL', and 'No form'. A 'Target form' text field contains the value 'rejestrowanie30', which is circled in red. At the bottom of the panel, there is a note: 'If the form has not yet been created, you are recommended to define the contract first. This will enable generation of a form with the relevant widgets and data bindings for the contract inputs.'

Kontrola dostawy 3.0

The screenshot shows the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The 'Run' button is circled in red. The left sidebar shows a project tree with the following structure:

- 31E-B
 - Organizations
 - Business Data Model
 - bom.xml
 - Process diagrams
 - Kontrola dostawy-1.0.proc
 - Kontrola dostawy-2.0.proc
 - Kontrola dostawy-3.0.proc**
 - Pages/Forms/Layouts
 - kontrolowanie30 FORM
 - rejestrwanie30 FORM
 - rozladowywanie30 FORM
 - Environments

The 'Kontrola dostawy-3.0.proc' file is selected and circled in red. A red arrow points from the text 'po utworzeniu formularzy dla wszystkich zadań' to the selected file. The main workspace shows the 'Business Data Model editor' with a diagram titled 'Magazynier' and a task 'Rozładowywanie dostawy'. The bottom panel shows the 'Form' configuration for 'Rozładowywanie dostawy'.

Form configuration:

- Connectors in: Contract
- Form: Select the type of form used to fulfill the contract. Subscription edition: With "Live Update" form after deployment.
- Operations: ☒ UI Designer ☐ External URL ☐ No form
- Connectors out: Target form: rozladowywanie30
- If the form has not yet been created, you are recommended to define the contract first.

*po utworzeniu formularzy
dla wszystkich zadań*

Kontrola dostawy 3.0

The screenshot shows the Bonita User Application interface. The browser address bar displays `localhost:8080/bonita/apps/userAppBonita/task-list/`. The application header includes the Bonita logo, the user name "Jan Kowalski", and navigation tabs for "Tasks", "Cases", and "Processes".

On the left sidebar, there are sections for "To do" (1), "My tasks" (1), and "Done tasks". The main content area is divided into a "Filters" section and a "Task list" section.

The "Filters" section includes a "Process" dropdown set to "All", a "Case ID" input field, and a search bar. The "Task list" section shows a table with one task: "Rejestrowanie dostawy" (ABC). The task is highlighted in blue.

The "Rejestrowanie dostawy" form is highlighted with a red border. It contains the following fields:

- Dostawa** (Id): 002
- Dostawca**: PQR
- Data_dostawy**: 11/02/2023 (Today)
- Opis**: Podzespoły P002
- Partia**: 1000

A "Submit" button is located at the bottom right of the form.

w formularzu nie zostały wyświetlone kontrolki dla pól: proba, dopuszczalna, niezgodnych i status

Kontrola dostawy 3.0

The screenshot shows the Bonita User Application interface. The browser address bar displays `localhost:8080/bonita/apps/userAppBonita/task-list/`. The application header includes the Bonita logo and the user name 'Jan Kowalski'. The main navigation bar has tabs for 'Tasks', 'Cases', and 'Processes'. The left sidebar shows a task list with 'To do' (1), 'My tasks' (1), and 'Done tasks'. The main content area is divided into two sections: 'Filters' and 'Task list'. The 'Filters' section includes a 'Process' dropdown set to 'All', a 'Case ID' input field, and a search bar. The 'Task list' section shows a table with columns for 'Task name', 'Process name', and 'Due date'. The task 'Kontrolowanie dostawy' is selected. The right section of the interface is the 'Form' for 'Kontrolowanie dostawy', which is highlighted with a red border. The form contains the following fields:

- Dostawa**
- Id**: 002
- Dostawca**: PQR
- Data_dostawy**: 11/02/2023 (Today)
- Opis**: Podzespoły P002
- Partia**: 1000
- Proba**: 100
- Dopuszczalna**: 5
- Niezgodnych**: 1

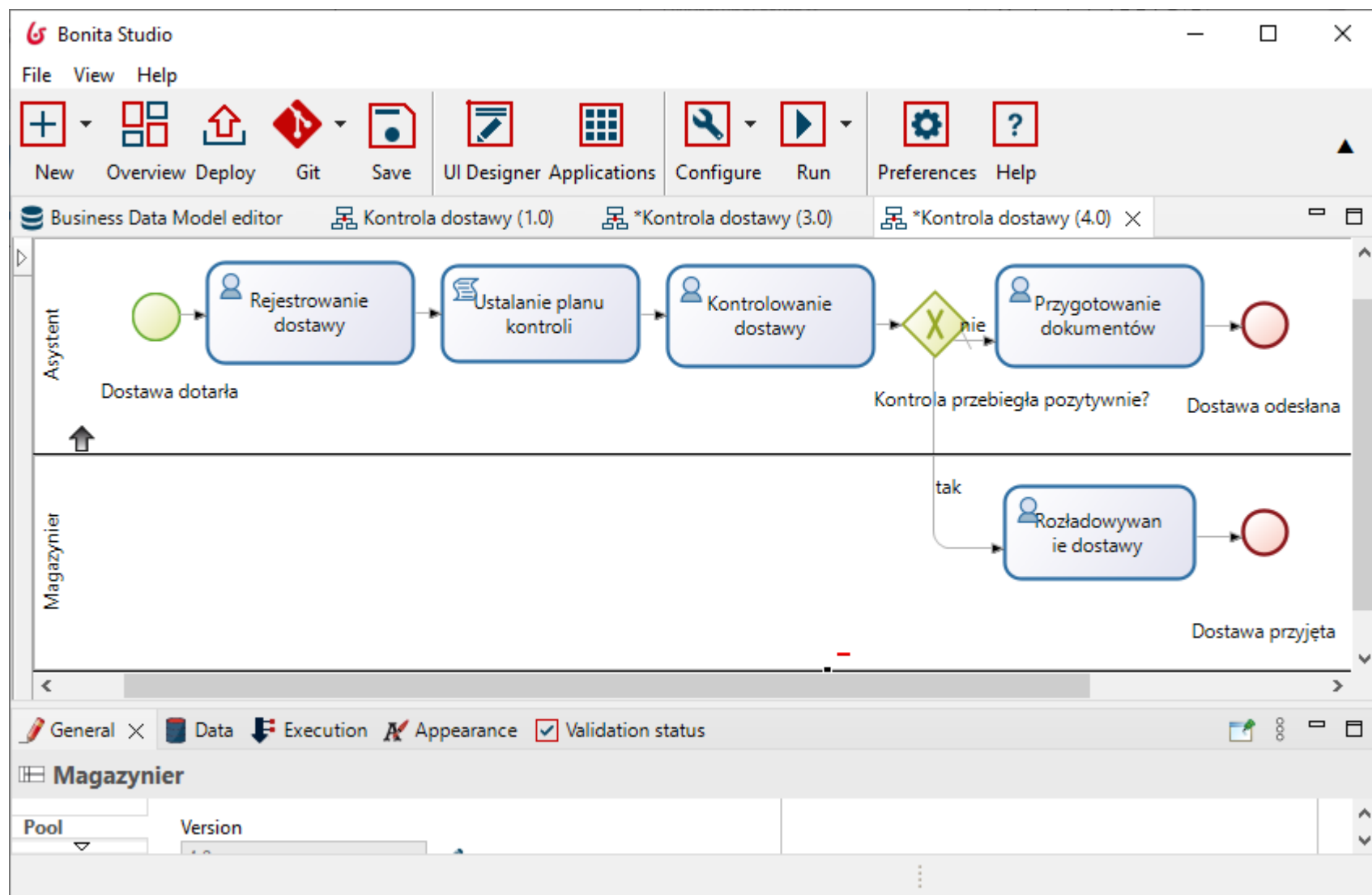
A 'Submit' button is located at the bottom right of the form. A red arrow points from the task list to the form.

kontrolki dla pól:
id, dostawca, data_dostawy, opis i partia
zawierają dane podane na etapie
rejestracji dostawy

Bonita Studio

Proces wersja 4

Kontrola dostawy 4.0



Kontrola dostawy 4.0

Założenia

- dane dostawy inicjalizowane wartościami domyślnymi dla pól:
 - `data_dostawy` ustalana na podstawie bieżącej daty
 - `id` definiowane jako: rok/numer sprawy
- rozmiar partii musi być dodatni
- plan kontroli wrywkowej ustalany automatycznie zgodnie z regułą:
 - jeśli rozmiar partii nie przekracza 1000 to
 - rozmiar próby do skontrolowania wynosi 100 (pole `proba`)
 - dopuszczalną liczbę niezgodnych wynosi 5 (pole `dopuszczalna`)
 - w przeciwnym przypadku
 - rozmiar próby do skontrolowania wynosi 200
 - dopuszczalną liczbę niezgodnych wynosi 10
- dostawa jest przyjmowana gdy liczba niezgodnych nie przekracza dopuszczalnej liczby niezgodnych
- pole `niezgodnych` jest edytowane podczas kontrolowania dostawy
- pole `opis` może być modyfikowane na każdym etapie procesu
- pole `status` otrzymuje automatycznie wartości `przyjęta` lub `odesłana`

Wyrażenia jako ograniczenia w kontraktach

The screenshot shows the Bonita Studio interface. The main window displays a process diagram with the following steps: 'Rejestrowanie dostawy' (highlighted with a red circle and number 1), 'Ustalanie planu kontroli', 'Kontrolowanie dostawy', a decision diamond labeled 'nie', and 'Przygotowanie dokumentu'. The left sidebar shows a project tree with '31E-B' and various sub-items like 'Organizations', 'Business Data Model', 'bom.xml', and 'Process diagrams'. The bottom panel shows the 'Rejestrowanie dostawy' task configuration. The 'Contract' tab is selected, and the 'Task Inputs' sub-tab is active. A red box highlights the 'Task Inputs' panel, which contains a table of inputs and their constraints.

Task Inputs

You can first define [business variables](#) and/or [documents](#), and then click on "Add from data...". It will automatically map contract inputs to data, and create operations to update data with contract values.

Add from data...	Name *	Type	Multiple	Description
Add	dostawaInput	COMPLEX	☐	
	id	TEXT	☐	
Add child	dostawca	TEXT	☐	

- definicja
- ograniczenia

Wyrażenia jako ograniczenia w kontraktach

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor *Kontrola dostawy (4.0)

31E-B

- Organizations
- Business Data Model
- bom.xml
- Process diagrams
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
- Pages/Forms/Layouts
- Environments

Rejestrowanie dostawy

General Data Execution Appearance Validation status Minimap

Task Inputs

Contract Form Operations Connectors out

Inputs Constraints

Name *	Expression *	Technical error message	Description
partia_dodatnia	return true;		

Wyrażenia jako ograniczenia w kontraktach

The screenshot displays the Bonita BPM interface with two main windows. The left window, titled "Edit content to constraint partia_dodatnia", shows a Groovy script editor with the code `return dostawaInput.partia>0;` (marked with a red circle 1). Below the editor are "Finish" (marked with a red circle 2) and "Cancel" buttons. The right window, titled "Rejestrowanie dostawy", shows a form with fields for "Dostawa Id" (003), "Dostawca" (QWER), "Data_dostawy" (11/03/2023), "Opis" (Podzespoły P003), and "Partia". A red arrow points to the "Partia" field with the text "nie podano rozmiaru partii". Below the form is a "Submit" button (marked with a red circle 4). A red box (marked with a red circle 3) contains a "Debug message" indicating an "Error while validating constraints" with the message "rozmiar partii musi być dodatni". At the bottom of the interface, a table lists constraints, with the first row showing "partia_dodatnia" and its Groovy expression `return dostawaInput.partia>0;` (marked with a red circle 3).

Edit content to constraint partia_dodatnia
Type the constraint using Groovy scripting.

```
return dostawaInput.partia>0;
```

Use "Ctrl + Space" to trigger content assist.

Finish Cancel

Rejestrowanie dostawy

Dostawa Id: 003
Dostawca: QWER
Data_dostawy: 11/03/2023
Opis: Podzespoły P003
Partia:

nie podano rozmiaru partii

Submit

Debug message
Error while validating constraints
• rozmiar partii musi być dodatni

partia_dodatnia return dostawaInput.partia>0;

wyrażenia należy budować w oparciu o zmienne wykorzystywane przez kontrakt

Bramki

The screenshot shows the Bonita Studio interface. The main canvas displays a BPMN diagram with the following elements:

- Start event (thin blue rounded rectangle) labeled "planu" and "oli".
- Task (blue rounded rectangle) labeled "Kontrolowanie dostawy".
- XOR Gateway (yellow diamond with a black 'X') labeled "Kontrola".
- Task (blue rounded rectangle) labeled "Przygotowanie dokumentów".
- End event (red circle).

A red arrow points from the text "jeden z przepływów wyjściowych bramki wykluczającej musi być domyślny" to the XOR gateway. A yellow tooltip box with a red 'X' icon is positioned over the gateway, containing the text: "All output transitions from a XOR gateway must be default or conditional. If you want to continue on several branches, use an inclusive gateway."

The left sidebar shows a project tree with the following structure:

- 31E-B
 - Organizations
 - Business Data Model
 - bom.xml
 - Process diagrams
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Pages/Forms/Layouts
 - Environments

The bottom panel shows the "Asystent" (Assistant) for a "Pool". The fields are:

- Pool: Lane, Actors, Search keys
- Name: ABC
- Version: 4.0
- Display name:
- Description:

Przepływy sekwencyjne

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The left sidebar shows a project tree with folders for Organizations, Business Data Model, bom.xml, Process diagrams, and Pages/Forms/Layouts. The main canvas shows a sequence flow diagram with tasks: 'planu', 'Kontrolowanie dostawy', a decision diamond labeled 'nie' (marked with a red circle and '1'), 'Przygotowanie dokumentów', and an end event. The bottom pane shows the configuration for the 'nie' decision. The 'General' tab is active, showing the Name field set to 'nie' and the 'Default flow' checkbox checked (marked with a red circle and '2'). The 'Condition' radio button is selected, with 'Use expression' and 'Use decision table' options also visible.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor *Kontrola dostawy (4.0)

31E-B

- Organizations
- Business Data Model
- bom.xml
- Process diagrams
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
 - Kontrola dostawy
- Pages/Forms/Layouts
- Environments

planu

Kontrolowanie dostawy

nie

Przygotowanie dokumentów

Kontrola przebiegła pozytywnie? Dostawa odesłana

General Data Execution Appearance Validation status Minimap

nie

General

Name

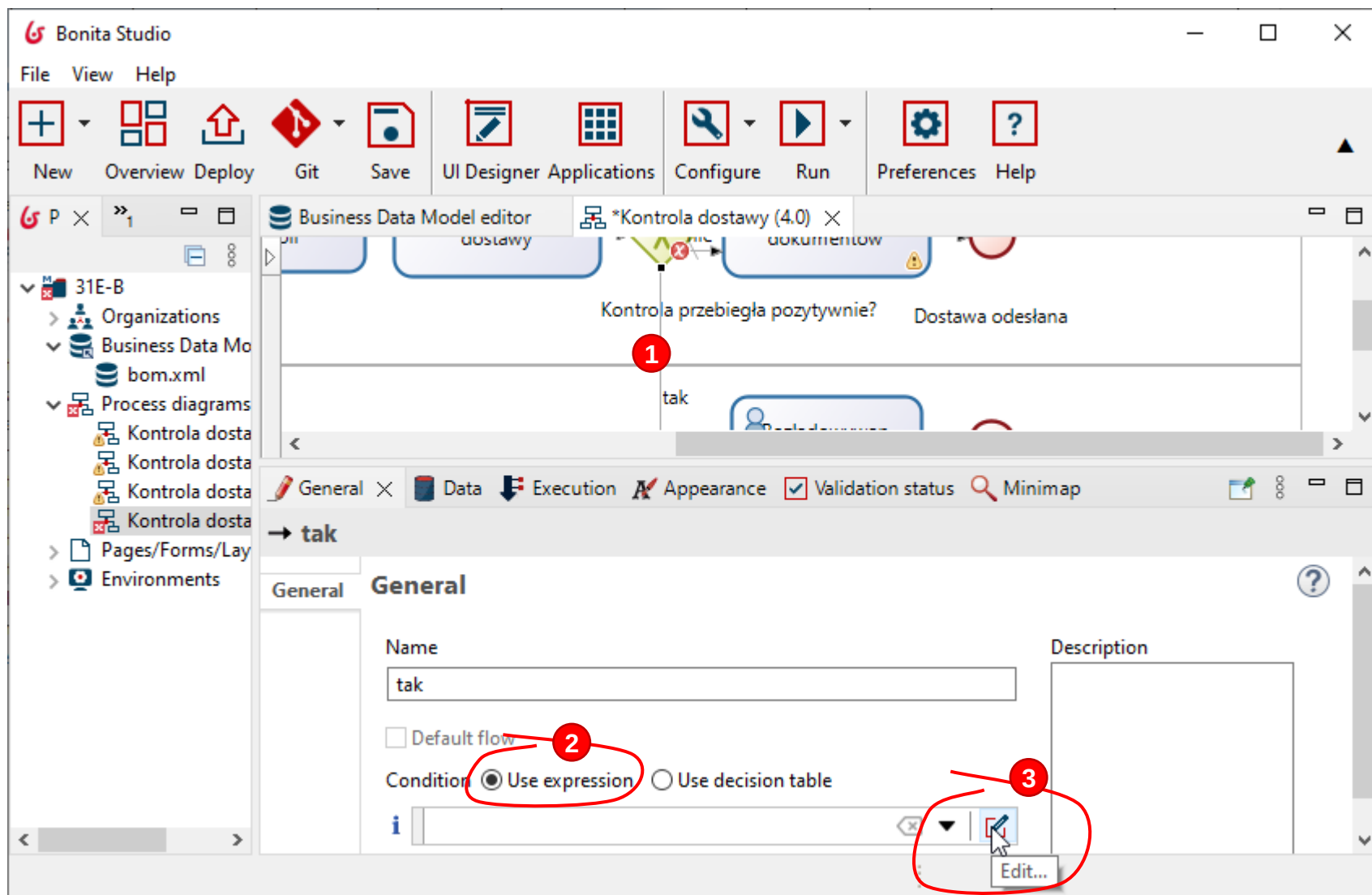
nie

☒ Default flow

Condition ☐ Use expression ☐ Use decision table

i

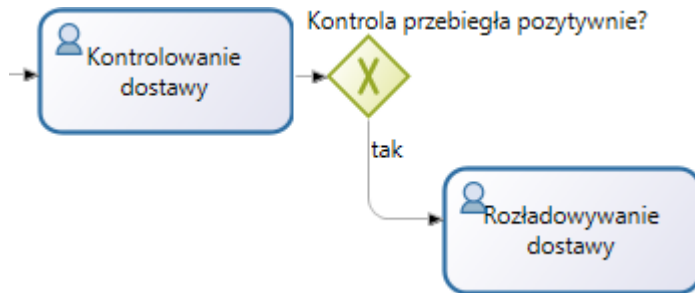
Przepływy sekwencyjne



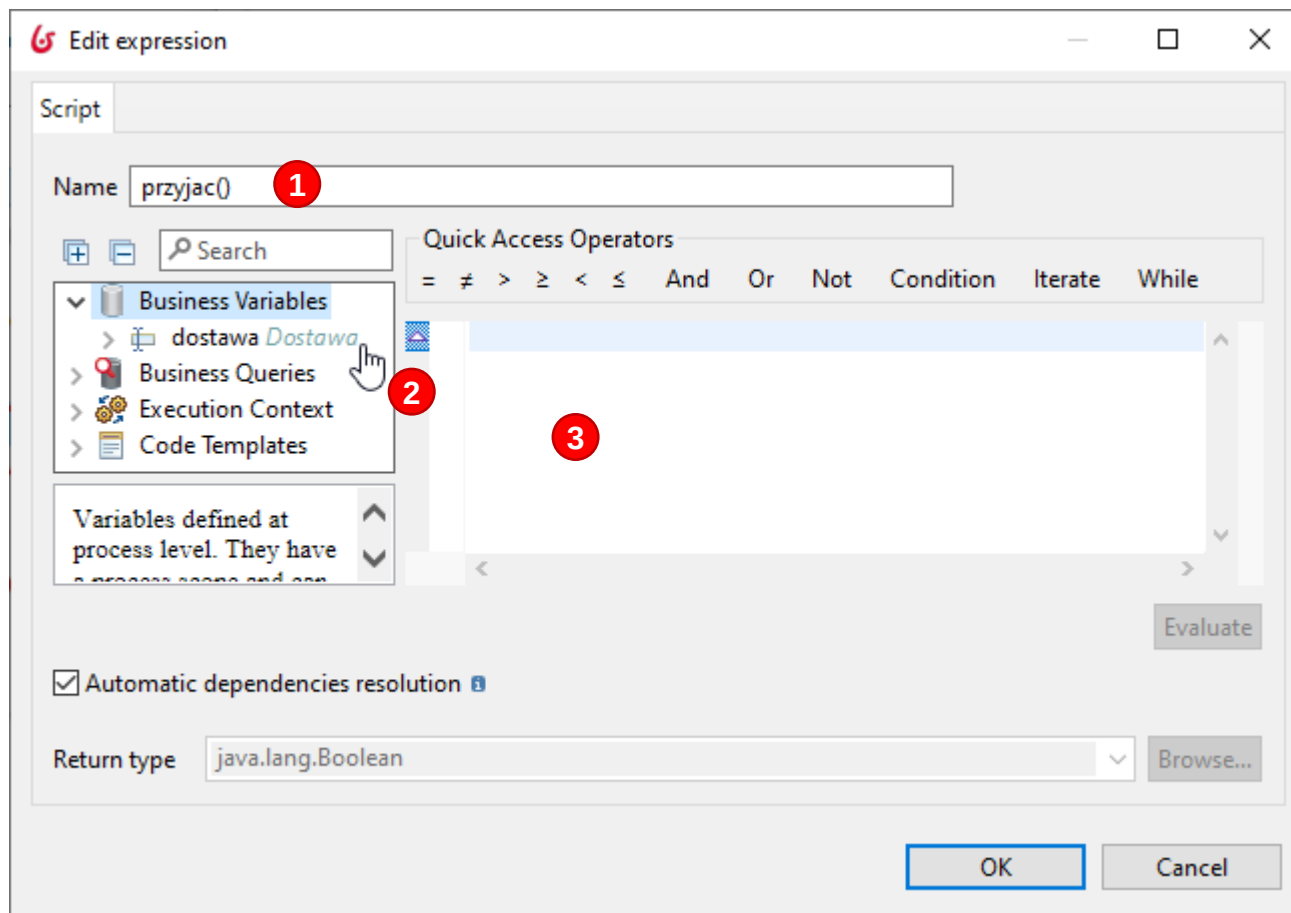
Skrypty w **Bonita** pisane są we wzorowanym na Javie **Groovy** i wykorzystywane do:

- a) pisania wyrażeń opisujących warunki przepływu,
- b) definiowania wartości operandów w operacjach na poziomie zadania,
- c) inicjalizowania zmiennym w celu przypisania im wartości domyślnych.

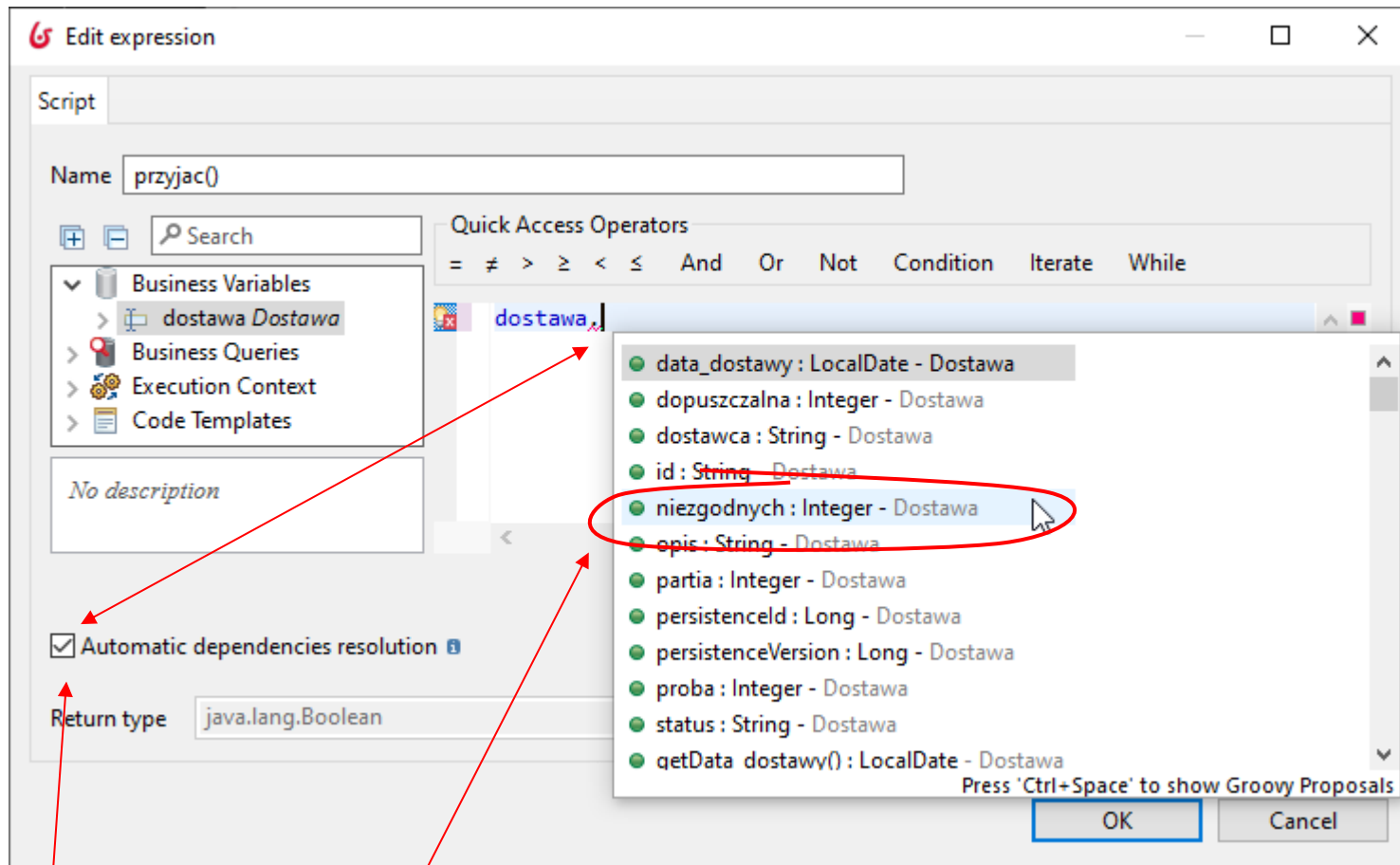
Skrypty w warunkach przepływu



General	General
	Name tak
	☐ Default flow
	Condition ☒ Use expression ☐ Use decision table
	fx przyjac() x v edit

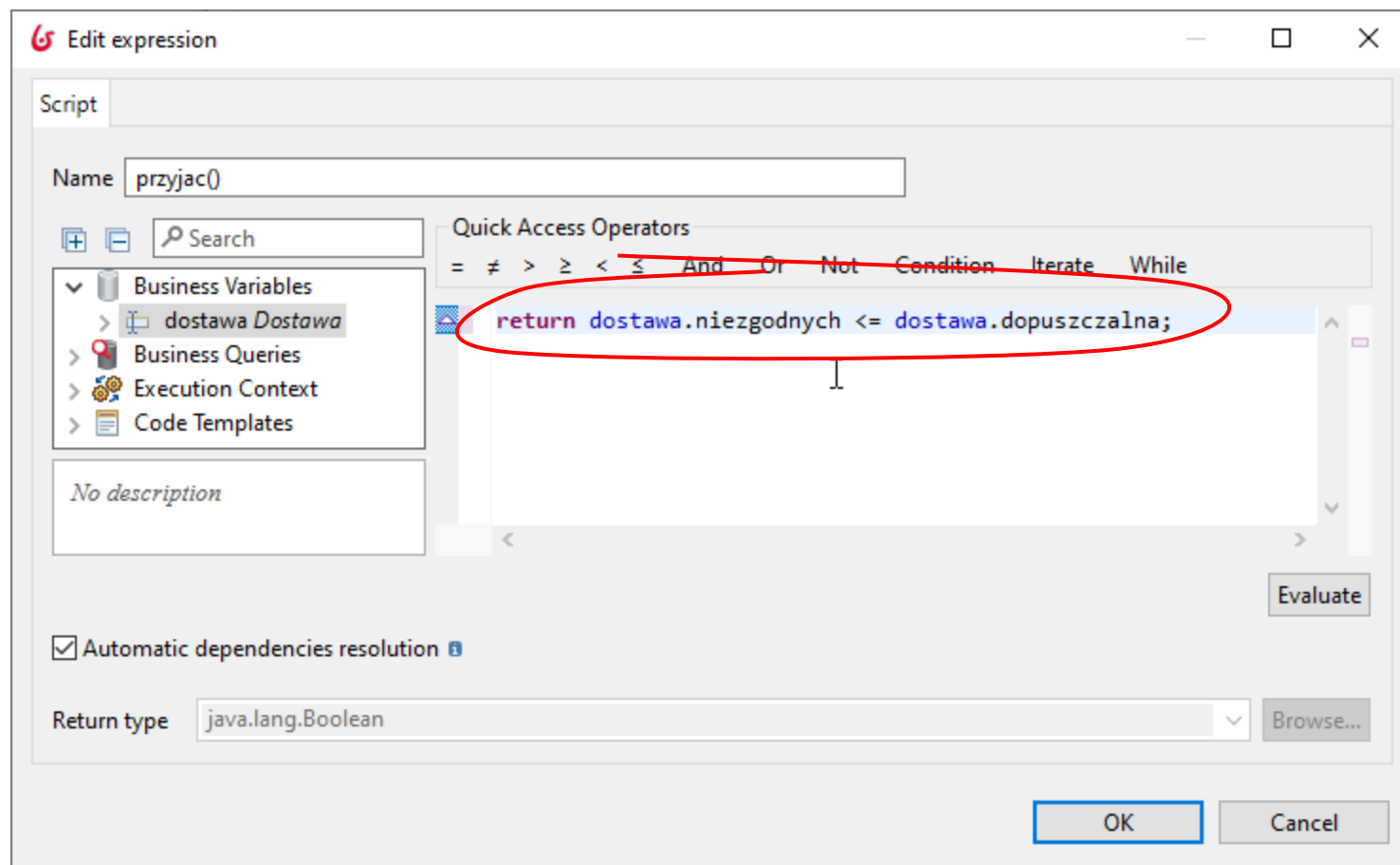


- 1 nazwa skryptu
- 2 lista zmiennych biznesowych
- 3 edytor skryptu



autouzupełnianie

pola i metody zmiennej obiektowej



Przepływy sekwencyjne

The screenshot displays the Bonita Studio application window. The top menu bar includes File, View, and Help. Below it is a toolbar with icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace is divided into several panes. On the left is a Project Explorer showing a tree structure with folders like Organizations, Business Data Model, and Process diagrams. The central pane shows a Palette with Swimlanes and Gateways. The right pane displays a process diagram with a sequence flow labeled 'tak'. Below the diagram is a Properties panel for the selected flow, showing fields for Name (tak), Description, and Condition. The Condition section has radio buttons for 'Default flow', 'Use expression' (selected), and 'Use decision table'. The 'Use expression' option is circled in red, and the expression 'przyjac0' is entered in the text field below it.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor *Kontrola dostawy (4.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

→ tak

General

Name: tak

Description:

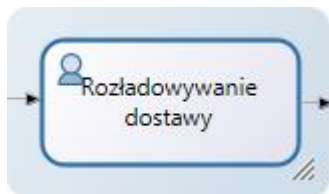
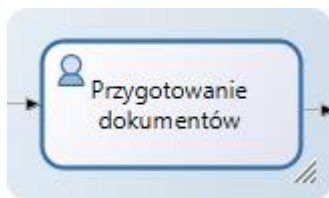
Condition: ☒ Use expression ☐ Use decision table

fx przyjac0

Skrypty w operacjach

Skrypty w operacjach są:

- generowane automatycznie podczas definiowania kontraktów (opcja [Auto-generate storage operations](#))
- pisane przez użytkownika 



Rejestrowanie dostawy					
Connectors in	⇅	dostawa	setId	dostawalInput.id	
Contract	⇅	dostawa	setDostawca	dostawalInput.dost	
Form	⇅	dostawa	setData dostawy	dostawalInput.da	
Operations	⇅	dostawa	setOpis	dostawalInput.opis	
Connectors out	⇅	dostawa	setPartia	dostawalInput.partia	

Przygotowanie dokumentów					
Form	⇅	dostawa	setOpis	dostawalInput.oj	
Operations	⇅	dostawa	setStatus	odesłana	
Connectors out		Add			

Rozładowywanie dostawy					
Form	⇅	dostawa	setStatus	przyjeta	
Operations	⇅	dostawa	setOpis	dostawalInput.oj	
Connectors out		Add			

Skrypty w operacjach (zadania typu Skrypt)

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace shows a BPMN diagram with three activities: 'Rejestrowanie dostawy', 'Ustawianie planu kontroli' (highlighted with a red circle 1), and 'Kontrolowanie dostawy'. A green circle labeled 'Dostawa dotarła' is connected to the first activity. The left sidebar shows a project tree with folders like '31E-B', 'Orga', 'Busin', 'Proce', and 'Page'. The bottom panel is titled 'Ustawianie planu kontroli' and contains an 'Operations' section. A text box explains that operations update variable values and are executed in order. Below this, an 'Add' button is highlighted with a red circle 2.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor *Kontrola dostawy (4.0) Kontrola dostawy (3.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

Ustawianie planu kontroli

Connectors in

Operations

Connectors out

Operations

An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. ⚠ A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.

Add

Skrypty w operacjach (zadania typu Skrypt)

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace shows a BPMN diagram with three activities: 'Rejestrowanie dostawy', 'Ustawianie planu kontroli', and 'Kontrolowanie dostawy'. The 'Ustawianie planu kontroli' activity is selected, and its configuration panel is open. The 'Operations' tab is active, showing a description of the operation and a list of connectors. A red circle highlights the 'Takes value of' field, which contains the text 'dostawa -- com.company.model.Dostawa'. A red circle with the number '1' is also present near the 'Takes value of' field.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor *Kontrola dostawy (4.0) Kontrola dostawy (3.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

Ustawianie planu kontroli

Connectors in

Operations

Connectors out

Operations

An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. ⚠ A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.

Takes value of

dostawa -- com.company.model.Dostawa

Skrypty w operacjach (zadania typu Skrypt)

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace shows a BPMN diagram with three activities: 'Rejestrowanie dostawy', 'Ustawianie planu kontroli', and 'Kontrolowanie dostawy'. The 'Ustawianie planu kontroli' activity is selected, and its configuration panel is open. The 'Operations' tab is active, showing a description of operations and a list of connectors. The 'dostawa' connector is selected, and the 'Takes value of' operator is highlighted with a red circle and a red number 1. A tooltip 'Change operator...' is visible over the operator.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor

*Kontrola dostawy (4.0) x Kontrola dostawy (3.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

Ustawianie planu kontroli

Connectors in

Operations

Connectors out

Operations

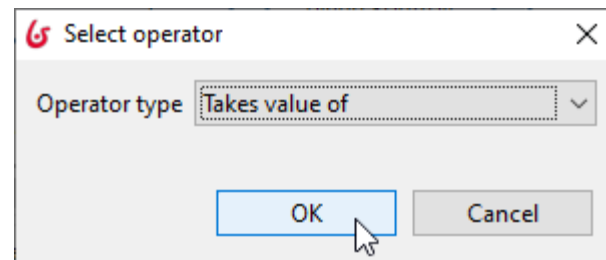
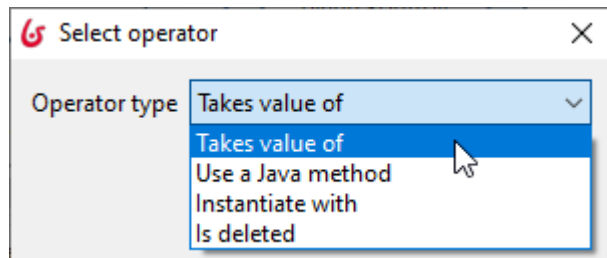
An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. ⚠ A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.

dostawa

Takes value of

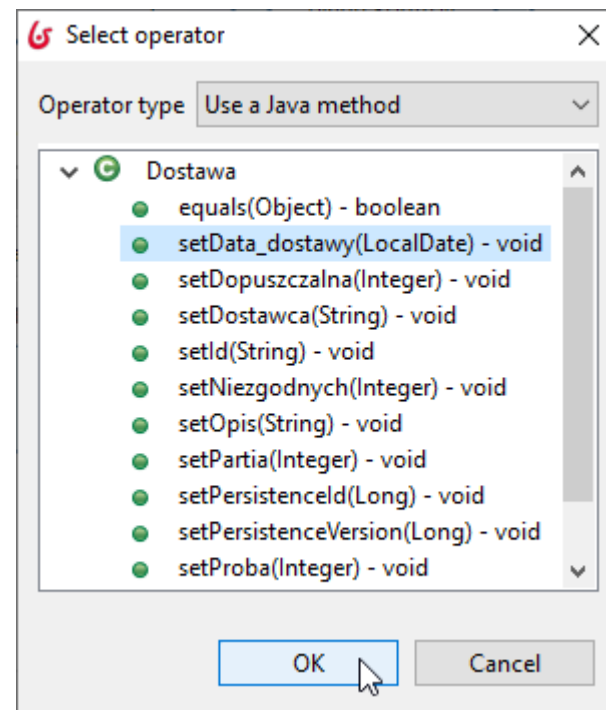
Change operator...

Skrypty w operacjach (zadania typu Skrypt)



Typy operatorów:

- **Takes value of**
przypisanie (=)
- **Use a Java method**
wykorzystanie metody obiektu
- **Instantiate with**
tworzy nową zmienną w oparciu o bazę
- **Is deleted**
usuwa zmienną z bazy danych



Skrypty w operacjach (zadania typu Skrypt)

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. The toolbar contains icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace shows a BPMN diagram with three activities: 'Rejestrowanie dostawy', 'Ustawianie planu kontroli', and 'Kontrolowanie dostawy'. The 'Ustawianie planu kontroli' activity is selected, and its configuration panel is open. The configuration panel has tabs for General, Data, Execution, Appearance, Validation status, and Minimap. The 'Operations' tab is active, showing a description of the operation and a list of connectors. The 'Connectors in' section shows a connector named 'dostawa' with the value 'Takes value of'. The 'Connectors out' section is empty. The 'Add' button is visible. A red circle highlights the 'Edit...' button in the bottom right corner of the configuration panel, with a red number '1' next to it.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor

*Kontrola dostawy (4.0) x Kontrola dostawy (3.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

Ustawianie planu kontroli

Connectors in

Operations

Connectors out

Operations

An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. ⚠ A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.

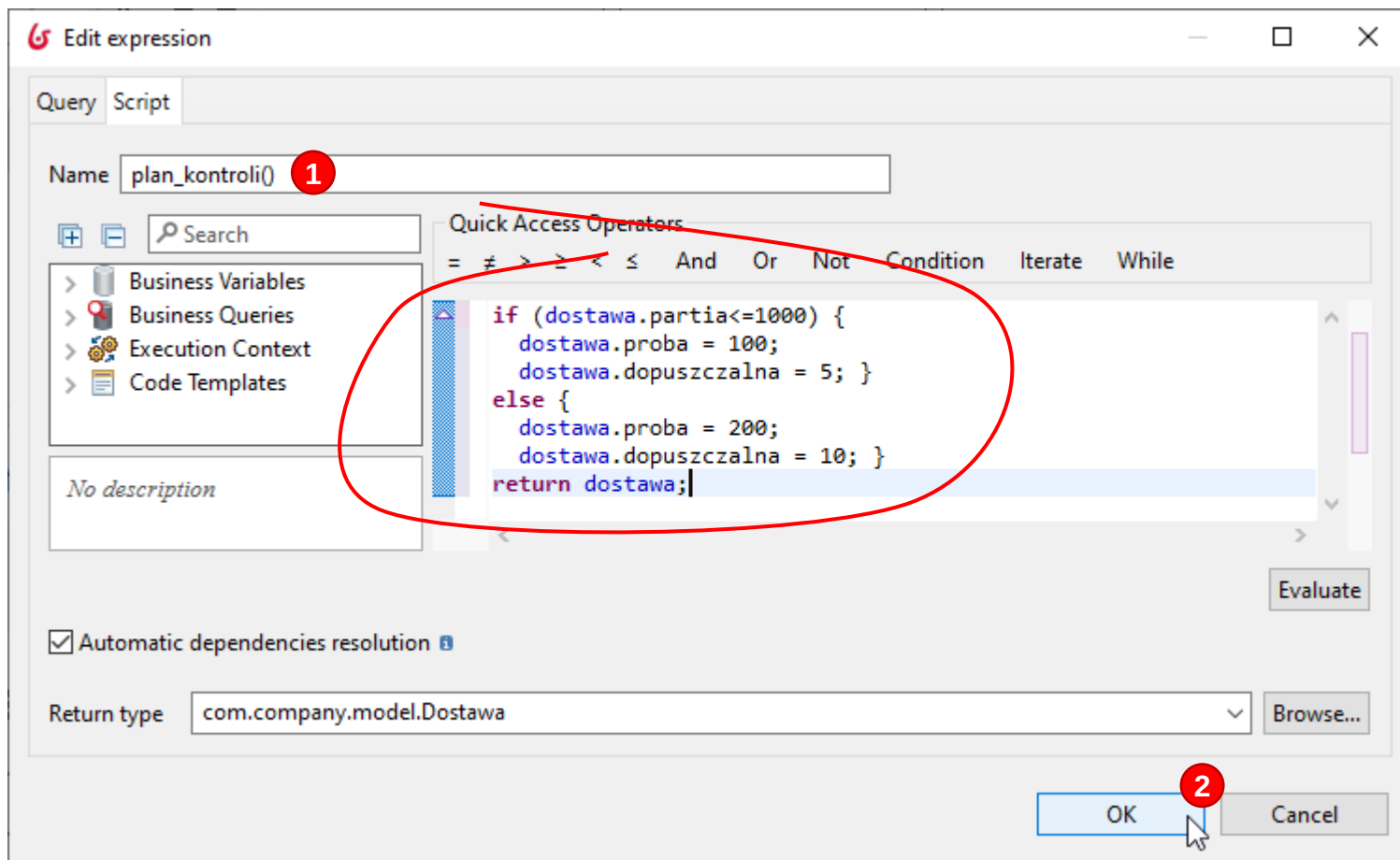
dostawa Takes value of

Add

Edit...

1

Skrypty w operacjach (zadania typu Skrypt)



Skrypty w operacjach (zadania typu Skrypt)

The screenshot displays the Bonita Studio interface. The top menu bar includes File, View, and Help. Below it is a toolbar with icons for New, Overview, Deploy, Git, Save, UI Designer, Applications, Configure, Run, Preferences, and Help. The main workspace shows a BPMN diagram with three activities: 'Rejestrowanie dostawy', 'Ustawianie planu kontroli', and 'Kontrolowanie dostawy'. The 'Ustawianie planu kontroli' activity is selected, and its configuration panel is open at the bottom. The configuration panel has tabs for General, Data, Execution, Appearance, Validation status, and Minimap. The 'Operations' tab is active, showing a text box with instructions: 'An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.' Below this, there is a field for 'dostawa' with a dropdown arrow, followed by the text 'Takes value of' and a function field containing 'fx plan_kontroli()'. A red circle highlights the function field. An 'Add' button is located below the function field.

Bonita Studio

File View Help

New Overview Deploy Git Save UI Designer Applications Configure Run Preferences Help

Business Data Model editor

*Kontrola dostawy (4.0) Kontrola dostawy (3.0)

Palette

Swimlanes

Gateways

General Data Execution Appearance Validation status Minimap

Ustawianie planu kontroli

Connectors in

Operations

Connectors out

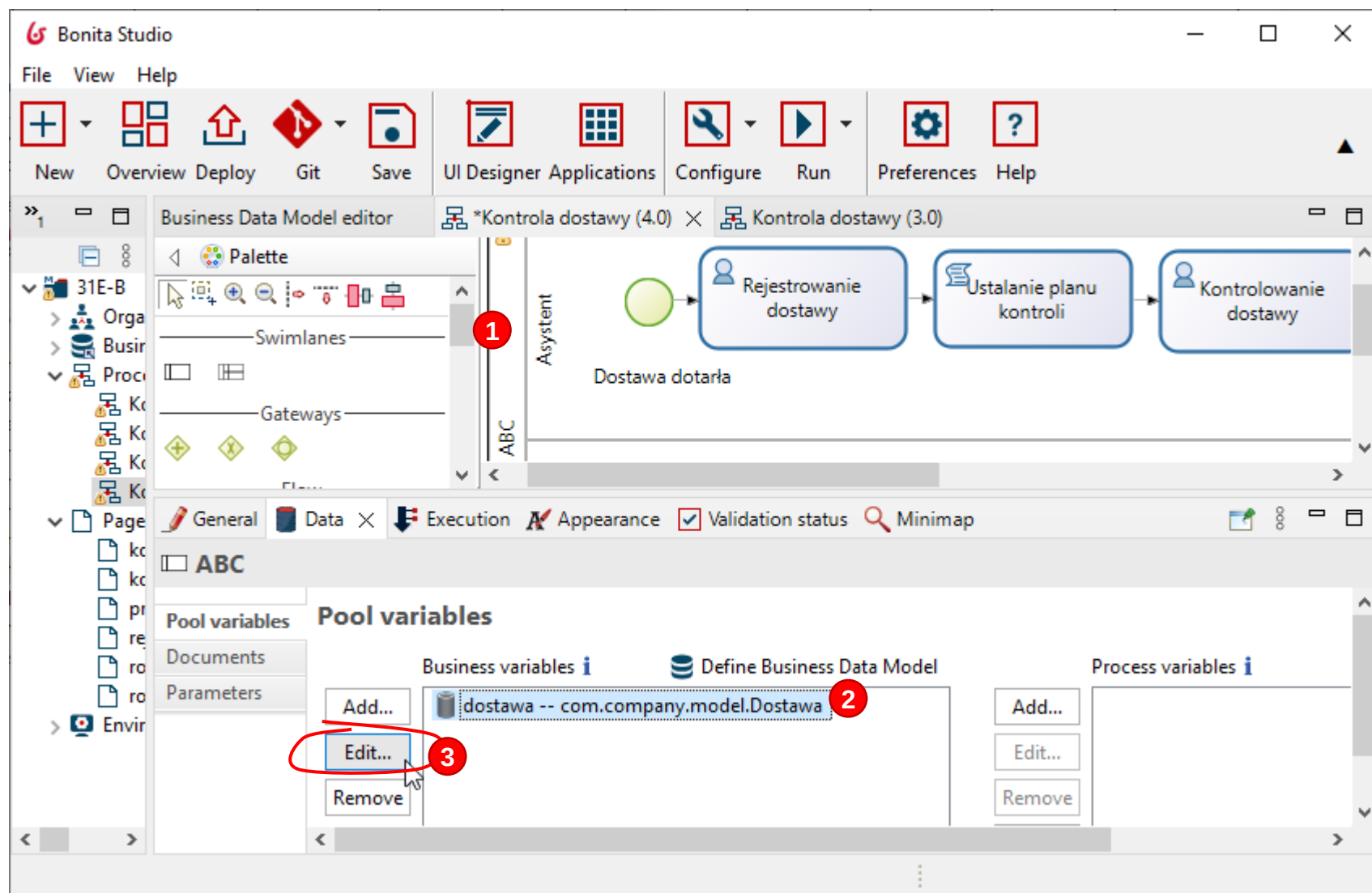
Operations

An operation updates the value of a variable after an activity is performed. Operations are executed in the order they are listed. A delete operation must be set on its own, in a dedicated activity. Other operations that recreate or update the variable must be handled in a separate activity.

dostawa Takes value of fx plan_kontroli()

Add

Skrypty do inicjalizacji zmiennych



Skrypty do inicjalizacji zmiennych

skrypt inicjujący wartość
zmiennnej obiektowej musi ją:

- utworzyć
- zwrócić

Edit Business variable
Edit an existing Business variable

Name *

Description

Business Object *

☐ Is multiple

Default value

Edit expression

Query Script

Name

Quick Access Operators
= ≠ > ≥ < ≤ And Or Not Condition Iterate

☒ Automatic dependencies resolution

Return type

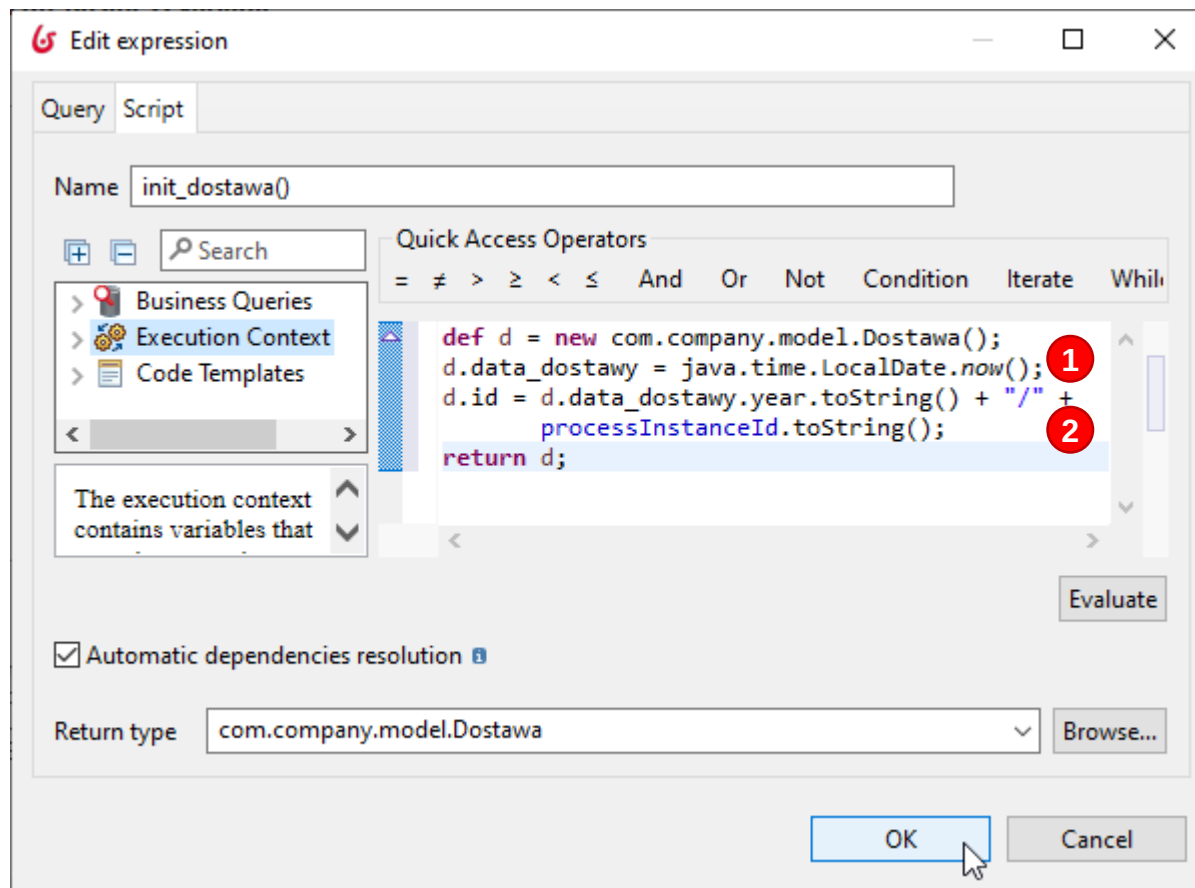
tworzenie zmiennej obiektowej

```
com.company.model.Dostawa d =  
    new com.company.model.Dostawa()
```

```
import com.company.model.Dostawa  
d = new Dostawa()
```

```
def d = new com.company.model.Dostawa()  
*def to słowo kluczowe z Groovy
```

Skrypty do inicjalizacji zmiennych



❶ data dostawy ustawiona domyślnie na aktualną

❷ domyślny identyfikator zbudowany z bieżącego roku i identyfikatora instancji procesu

Uwaga! Jeśli basen ma zdefiniowany kontrakt w skrypcie można odwoływać się do zmiennej skojarzonej z tym kontraktem

Kontrola dostawy 4.0

The screenshot displays the Bonita User Application interface. The browser address bar shows the URL `localhost:8080/bonita/apps/userAppBonita/task-list/`. The application header includes the Bonita logo, the user name "Jan Kowalski", and navigation icons. The main navigation bar has tabs for "Tasks", "Cases", and "Processes".

On the left sidebar, there are three task categories: "To do" (1), "My tasks" (1), and "Done tasks".

The central "Task list" section includes a "Filters" panel with a "Process" dropdown set to "All", a "Case ID" input field, and a search bar. Below the filters is a "Task list" table with columns for checkboxes, user icons, task names, process names, and due dates. The table contains one task: "Kontrolowanie dostawy" (Process: ABC, Due date: -). A red arrow points from the task name "Kontrolowanie dostawy" to the "Form" tab on the right.

The right panel shows the "Form" tab for the selected task. It contains several fields: "2023/1", "Dostawca" (PQR), "Data_dostawy" (Nov 5, 2023), "Opis" (Podzespoly P005), "Partia" (1500), "Proba" (200), "Dopuszczalna" (10), and "Niezgodnych". A "Submit" button is located at the bottom right of the form.

- kontrolki pól opis i niezgodnych są typu Input
- kontrolki pozostałych pól są typu Text

Kontrola dostawy 4.0

Bonita Applications

Bonita User Application

+

localhost:8080/bonita/apps/userAppBonita/case-details/?id=3...

Jan Kowalski

TasksCasesProcesses

Back

Overview

Case ID : 3005

No description

General

Process name (version)
ABC (4.0)

Started by
Jan Kowalski

Started on
11/5/23 7:09 PM

State
Completed

Last updated
11/5/23 7:10 PM

id	dostawca	data_dostawy	opis	partia	proba	dopuszczalna	niezgodnych	status
2023/1	PQR	2023-11-05	Podzespoły P005	1500	200	10	12	odesłana

id	dostawca	data_dostawy	opis	partia	proba	dopuszczalna	niezgodnych	status
2023/2	GHJ	2023-11-05	Podzespoły P008	1000	100	5	3	przyjęta