

LAB 4: Modify GetContainerData, part 2

- For the LanguageID Input, in the Properties, expand the System Variable drop-down and select LanguageID

System Variables are variables defined in the system, and are populated automatically when the DELMIA Apriso session is started. E.g., LanguageID is populated when you logon to the system. The system recognizes your user ID, and the preferred language associated with it.

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LAB 4: Modify GetContainerData, part 3

- Right-click on the ProductNo output, and select **Add External Routing**

The system will automatically give the external routing the name of the Function output, i.e. ProductNo.

To make sure you have the correct mapping:

- Go to Function Properties, and select the correct External output name

The outputs available there are the ones you added in the Operation Interface.

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LAB 4: Pass the ContainerNo
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LAB 4: Modify Step Name
LAB 4: Add SQL Query Function
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LAB 4: Modify GetContainerData, part 4

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LAB 4: Modify GetContainerData, part 4

► Add external routings to the remaining Function outputs:

- LotNo as LotNo
- QuantityOnHand as QuantityOnHand
- ParentContainer as ParentContainer
- Location as Location
- ProductDesc as ProductDesc
- ContainerStatusDesc as ContainerStatusDesc

The Count output remains unmapped as you are not using it at this moment.

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LAB 4: Introduction to Linking Screens, part 1

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LAB 4: Modify GetContainerData, part 5

The GetContainerData Function should look like this now.

► Save your work
► Change the Operation Status to Prototype

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LAB 4: Introduction to Linking Screens, part 1

You have now 2 Screens, and an Operation which uses the Container number as input and returns container details which you want to show in the second Screen.

The next step you need to do is to link the Screens and the Operation into a working flow.

The screenshot shows the CSI Online services interface with two main windows. The left window is titled 'OUTLINE' and lists various lab tasks. The right window is titled 'LAB 4: Introduction to Linking Screens, part 1'. It contains two screens: a 'Container Data' screen and a 'Change Container Status' screen. A blue arrow points from the 'Container Data' screen to a process flow diagram. The process flow starts with an 'GetContainerData' operation, which has 'ContainerID' as its input and 'ContainerDetails' as its output. This output is connected to the 'Container #' field in the 'Container Data' screen. The 'Container Data' screen also has a 'Submit' button. Below the screens is a process flow diagram with nodes like 'GetContainerData', 'ContainerID', 'ContainerDetails', 'Container #', 'Submit', 'Container data', 'Container ID', 'Container Details', 'Container Status', 'Change Container Status', and 'Status'.

Container #: → Submit

Container data

Container #: --
Parent Container: --
Current Container Status: --
Product No.: --
Product Name: --
Quantity: 0
Location: --
Lot No: --

Change Container Status

New Status:

Change Container Status

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LAB 4: Introduction to Linking Screens, part 1

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LAB 4: Introduction to Linking Screens, part 2

Your Operation will be added as an On Action Operation to the Submit button on the first screen. On the second screen no configuration will be needed because the container detail Controls have names identical to the external variables populated by the Operation linked to the Submit button.

The system will recognize it and it will show the data when the second screen is loaded.

Container #: []

Container data

Container #:	--
Parent Container:	--
Current Container Status:	--
Product No.:	--
Product Name:	--
Quantity:	0
Location:	--
Lot No.:	--

Change Controls

Code	<input type="button" value="Edit"/>
ContainerNo	<input type="button" value="Edit"/>
ParentContainer	<input type="button" value="Edit"/>
ContainerStatusDesc	<input type="button" value="Edit"/>
_control	<input type="button" value="Edit"/>
ProductNo	<input type="button" value="Edit"/>
ProductName	<input type="button" value="Edit"/>
QuantityOnHand	<input type="button" value="Edit"/>
control1	<input type="button" value="Edit"/>
Location	<input type="button" value="Edit"/>
LotNo	<input type="button" value="Edit"/>

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LAB 4: Lab Steps Execution

When fully configured, the sequence of execution will be as follows:

- 1 User enters container information
- 2 User clicks on Submit
- 3 When Submit button is clicked, the Operation is executed and external variables with container details are populated
- 4 The second Screen is triggered, and the Form Controls take the values from the respective external variables
- 5 These values are displayed on the second Screen

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LAB 4: Modify Buttons in TRNXX.Container.Scan View

- Go to TRNXX_FRM Screen, and open the **TRNXX.Container.Scan** View
- Go to the **SUBMIT** Button properties
- In the On Action Operation property, link the **TRNXX.Container.Get_Data** Operation
- In the **Portal Action** property, use the "Go to Screen" Portal Action to link the TRNXX_FRM-010 Screen
- Save your work
- Make sure both your Screens and the Operation are in the Prototype status

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You will configure the Change Container Status group in the next lab.

Container #: R1075_CN01

Submit

Container Data

Container #: R1075_CN01
Parent Container: R1075_UM01
Current Container Status: Inspected
Product No: PC-CASE-ATEST
Product Name: PC-CASE-ATEST
Quantity: 10
Location: RECEIVING01
Lot No: R107510_LOT01

Change Container Status

New Status:	Loaded	Shipped
	Inspected	Blocked
	Unrestricted	

Change Container Status

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- LAB 5: Change the Container Status**
- LAB 5: Change the Container Status

Task:

- ▶ Create the TRNXX.Container.Status_Process Operation
- ▶ Link the Operation to the CHANGE_CONTAINER_STATUS Button

What you will learn:

- ▶ Add configuration to change the container status in the database
- ▶ Link Operations to other Entities

Requirements:

- ▶ In case of any technical problems, please contact DELMIA.Apriso.training@3ds.com

25 min

Container Data

Container #: R1075_CN01
Parent Container: R1075_UM01
Current Container Status: Inspected
Product No: PC-CASE-ATEST
Product Name: PC-CASE-ATEST
Quantity: 10
Location: RECEIVING01
Lot No: R107510_LOT01

Change Container Status

New Status:	Loaded	Shipped
	Inspected	Blocked
	Unrestricted	

Change Container Status

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LAB 5: Introduction to Container Status

The new container status will be determined by clicking on one of the State Buttons.

To save the container status change in the database, you will need a Standard Operation, which will take the Container number and the new status, and update the system.

Container data

Container #: --
Parent Container: --
Current Container Status: --
Product No: --
Product Name: --
Quantity: 0
Location: --
Lot No: --

Change Container Status

New Status: Inspected, Blocked, Loaded, Shipped, Unrestricted

Change Container Status

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LAB 5: Create New Operation TRNXX.Container.Status_Progress

- ▶ Create a new Operation, and name it **TRNXX.Container.Status_Process**
- ▶ Make sure the subtype is **Action**
- ▶ Rename the **Step to UpdateContainerStatus**
- ▶ Make sure the Step is connected to the End Node
- ▶ Double-click on the Step to open it

New Entity Wizard

Select the type of entity you would like to create and name it. Click Next to continue.

Entity Type:

Operation, Process, Screen, View, Layout, Action Script

A new Apiax Operation that models a set of business process.

Name: TRN Container Status_Process
Subtype: Action
Revision: TRN 000.000.000

Back Next Finish Cancel Help

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- LAB 5: Add Business Component, part 1**

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LAB 5: Add Business Component, part 1

Once in the Step, add a **Business Component** function

Business Components (BCs) in DELMIA Apriso system are encapsulated business logic programs, which contain validations, and data processing, which you can use to perform various system operations. They spare you the coding effort and so speed up the solution configuration.

Type dropdown menu:

- General
- Name: ChangeContainerStatus
- Description
- Type: **Business Component**
- Business Component
- Business Control
- DAL Query
- External
- Input to Output
- Local Determination
- Macro
- MScript
- Print Message
- SQL Query
- Stored Procedure
- Sub Container
- Sub Task
- Sub Container Request
- User Formula
- Web Service

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- LAB 5: Add Business Component, part 1**

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LAB 5: Add Business Component, part 2

When you select the function type, Process Builder will show you a list of Business Components to choose from.

Type **ChangeContainer** in the filter field

You will see one of the Business Components (BCs) is called **ChangeContainerStatus**

Double-click on it to load

Filter field: changecontal

Items beginning with...

- ChangeContainerStatus
- ChangeContainmentItemStatus

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LAB 5: Add Business Component, part 3

In this training, the BC to use is given in the instruction, but Apriso has several hundred Business Components, and how do you which one does what? The answer is in the Business Components Documentation.

You can access it from the Process Builder menu bar, in the Help section.

Business Components will be addressed in more detail in later training modules.

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LAB 5: Function Details

The Function you added has just two inputs. The System applied the BC name to name your function. You don't need to change this.

If you want to check what this BC does, use the Repository button in the function properties. It will take you to the Business Components Documentation which was just mentioned on previous screen.

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LAB 5: Function Details

LAB 5: Modify TRNXX.Container.Status_Process

You need to provide the values to the function inputs.

- ▶ Go to the Interface tab of Operation properties, and add **ContainerNo** as **Char** and **New_Status** as **Integer** into the Inputs
- ▶ Make sure the Enable Interface box is checked
- ▶ Both inputs will come from the Forms you have already configured

Properties

Name	Data Type	Required
ContainerNo	Char	<input checked="" type="checkbox"/>
New_Status	Integer	<input checked="" type="checkbox"/>

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LAB 5: Modify TRNXX.Container.Status_Process

LAB 5: ContainerNo Control

The **ContainerNo** is the Control you use to capture the container id.

Container #: []

Controls

Code

ContainerNo

Submit

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LAB 5: New_Status Control

The **New_Status** is the name of the Control with State Buttons.

The input to the Operation needs to be Integer, because this is the data type of container status in the database.

Container data

- Container #: --
- Parent Container: --
- Current Container Status: --
- Product No: --
- Product Name: --
- Quantity: 0
- Location: --
- Lot No: --

Change Container Status

Inspected	Blocked
Loaded	Shipped
Unrestricted	

Controls

- Code
- New_Status

Change Container Status

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LAB 5: Modify ChangeContainerStatus Function

Now map the external inputs into the function:

- Right-click on each input, and select **Create External Input**
- Then, in the Input properties, select **New_Status** external input from the External Inputs drop-down list
- Save the Operation
- Change to Prototype Status

External Inputs

- ContainerStatus
- Set
- ContainerNo
- New_Status
- ContainerStatus

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LAB 5: Change Buttons in TRNXX.ContainerStatus.Change

- ▶ Go back to the View **TRNXX.ContainerStatus.Change**
- ▶ In the Entity Explorer, select **CHANGE_CONTAINER_STATUS**
- ▶ In the Button properties, link the **TRNXX.Container.Status_Process** as the On Action Operation
- ▶ Save your work

With this configuration, you will first select a new status using state buttons, and the submit to the database using the Change Container Status button.

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LAB 5: Test Run TRNXX_FRM

- ▶ Launch the **TRNXX_FRM** Screen in Test mode.
- ▶ Use the **R1075_CN01** container to select. Click Submit

Observe the value in the Current Container Status field on the second screen.

- ▶ Now click on a different status in the New Status Control, and click on the Change Container Status button

Relaunch the **TRNXX_FRM** Screen to see the changes. Then submit the **R1075_CN01** container again.

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End of LAB 5

LAB 6: Simplify Container Status Update

Task:

- ▶ Change the CHANGE_CONTAINER_STATUS Action Type to „Calculated“
- ▶ Configure the state buttons to submit
- ▶ Add a Next Action to CHANGE_CONTAINER_STATUS to refresh the Screen with most current container information - this will make you immediately see the container status change

What you will learn:

- ▶ How to add Actions to eliminate buttons

Requirements:

- ▶ In case of any technical problems, please contact DELMIA_Apriso.training@3ds.com

Change Container Status

New Status	Inspected	Blocked
Unrestricted	Loaded	Shipped

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End of LAB 5

LAB 6: Simplify Container Status Update

LAB 6: More Way to Simplify

After you saw the flow work, you may want to simplify the Screen change the container status by using the state buttons only.

In this way you can simplify the TRNXX_FRM-010 Screen, and eliminate the need for the Change Container Status button.

This will make it possible to submit the status change immediately when clicking on state buttons.

Container data

Container #:	–
Parent Container:	–
Current Container Status:	–
Product No.:	–
Product Name:	–
Quantity:	0
Location:	–
Lot No.:	–

Change Container Status

New Status:	Inspected	Blocked
Unrestricted	Loaded	Shipped

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LAB 6: Change to Calculated Action

- ▶ Go to the View TRNXX.ContainerStatus.Change
- ▶ In the Entity Explorer, select CHANGE_CONTAINER_STATUS
- ▶ In the Button properties, change the Action Type from Button to Calculated

You will still need the CHANGE_CONTAINER_STATUS Action, but it will no longer show on the Screen.

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LAB 6: Define Submit Action

- ▶ Still in the View TRNXX.ContainerStatus.Change, go to Forms, and select the New_Status Control
- ▶ In the Control Properties, define the Submit Action as CHANGE_CONTAINER_STATUS

By using the Submit Action property, you can define any business logic which needs to be executed when the respective Control is submitted.

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- LAB 6: Visualization, part 2

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LAB 6: Visualization, part 1

The configuration you just completed will change the container status, but you will not see this change on the screen yet (unless you rerun the test of the whole flow).

In order to see the new container status immediately, you need to tell the DELMIA Apriso system to re-query the container information when the TRNXX_FRM-010 Screen is submitted and refreshed.

Container #: R1075_CN01

Container Data

Container #: R1075_CN01
Parent Container: R1075_UM01
Current Container Status: Inspected

Product No: PC-CASE-ATE8T
Product Name: PC-CASE-TEST
Quantity: 10
Location: RECEIVING01
Lot No: R107510_LOT01

Change Container Status

New Status:	Loaded	Shipped	Blocked
	Unrestricted		

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LAB 6: Visualization, part 2

Earlier in this training module, you have already configured a Standard Operation which queries the database for container details.

It is the **TRNXX.Container.Get_Data** Operation which you linked to the Submit button on the first Screen. You will now use this Operation again.

This is an example how granular Standard Operations can be reused in multiple places in your project.

Container #: R1075_CN01

Container Data

Container #: R1075_CN01
Parent Container: R1075_UM01
Current Container Status: Inspected

Product No: PC-CASE-ATE8T
Product Name: PC-CASE-TEST
Quantity: 10
Location: RECEIVING01
Lot No: R107510_LOT01

Change Container Status

New Status:	Loaded	Shipped	Blocked
	Unrestricted		

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Entity Manager X TRN.ContainerStatus.Change - TRN.000.000.000* (View)

LAB 6: Add New Action (Refresh)

► Go to View TRNXX.ContainerStatus.Change
 ► Go to the Actions Tab
 ► Add a new Action after the CHANGE_CONTAINER_STATUS Action.
 ■ Name the new Action **REFRESH_CONTAINER_DATA**
 ■ Set the Type to Calculated

General Actions

Enabled	Name	Type	On Action	Portal Action	Open Popup View	Next Action
<input checked="" type="checkbox"/>	CHANGE_C...	Calculated	<input checked="" type="radio"/> TRN Conta...	Refresh		
<input checked="" type="checkbox"/>	REFRESH_C...	Calculated	<input checked="" type="radio"/> TRN Conta...	Refresh		CHANGE_CO...

Information

Name: REFRESH_CONTAINER_DATA
 Title:
 Code:
 Translation:
Def. Type:
 Button (Primary) Calculated Tab
 Button (Secondary) Numeric

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OUTLINE

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- LAB 5: Function Details
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LAB 6: Refresh Action Details

► In the REFRESH_CONTAINER_DATA Action properties, link the TRNXX.Container.Get_Data Operation as an On Action Operation
 ► In the properties of the Action CHANGE_CONTAINER_STATUS, define the Next Action as REFRESH_CONTAINER_DATA
 After making these changes, the Actions tab of your View should look like the one here.
 ► Save your work, and remember about the Prototype status

On Action

Operation Action Script Function
 Name: TRN.Container.Get_Data
 Revision:
 Action: CHANGE_CONTAINER_STATUS
 Next Action: Go to Screen

General Actions

Enabled	Name	Type	On Action	Portal Action	Open Popup View	Next Action
<input checked="" type="checkbox"/>	CHANGE_C...	Calculated	<input checked="" type="radio"/> TRN Conta...	Refresh		
<input checked="" type="checkbox"/>	REFRESH_C...	Calculated	<input checked="" type="radio"/> TRN Conta...	Refresh		CHANGE_CO...

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LAB 6: Test Run Screen

Now, when you test your changes again, you will see there is no button for changing container status. Use container **R1075_CN01**.

Also, when you click on one of New Status buttons, you will immediately see the container status change.

Container # R1075_CN01

Container Data

- Container #: R1075_CN01
- Parent Container: R1075_U0M01
- Current Container Status: Inspected
- Product No: PC-CASE-ATEST
- Product Name: PC-CASE-ATEST
- Quantity: 10
- Location: RECEIVING01
- Lot No: R107510_L0T01

Change Container Status

Loaded	Shipped
Inspected	Blocked
Unrestricted	

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LAB 6: Publish as FlexPart and Test

Publish the flow as a Flexpart:

- Mark the TRNXX_FRM Screen as Base Screen in Screen Properties and save
- In Entity Manager, right-click on the Screen and select **Publish as FlexPart**
- Fill the name, set the security, save, and copy the URL
- Open any browser, and paste the link
- Login and execute the screen flow

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