

OUTLINE

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Configuring Business Logic -
Printing Labels Online Training

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Configuring Business Logic - Printing Labels Online Training

Abstract.:

This training module is for individuals who would like to know how to communicate with a printer and how to configure a label template.

Detailed objectives. After the training you will know:

- ▶ How to configure a label in the DELMIA Apriso system
- ▶ How to create a Screen which allows users to print a label
- ▶ Where additional information about printing labels can be found

Target audience:

- ▶ People who need to configure DELMIA Apriso to print labels

Requirements:

- ▶ Working knowledge of Process Builder
- ▶ Skills to build Screens in Process Builder
- ▶ Skills to configure Standard Operations in Process Builder

Role and level:

- ▶ Any user that has working knowledge of Process Builder



Duration: 1,5 hours

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Labelling in the Manufacturing World

Most business scenarios in manufacturing require labels to be printed as part of business processing.

Already at receiving, the shipment containers come with labels attached to them, and frequently they need to be relabeled to meet the standards and information needs of the manufacturer.

Labels are used in different stages of warehousing and producing processes, e.g. when different basic components (like chemicals) are mixed into a pre-production mixture, or serial numbers are added to the products on the production line, or final goods are packaged and prepared for shipment to customers.



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Generating Labels in DELMIA Apriso

Each DELMIA Apriso customer has their own standard for labels, and uses labels regardless of the solution chosen as its Manufacturing Execution System.

This is why DELMIA Apriso is rarely involved in designing the label layouts. In most cases the label layouts, represented with label definition files, are provided by the customer.

The fmt file is the label template. Variables in curly brackets are replaced with the values during execution.

The xml file is the label definition file.

If needed, label definitions can be created using third-party tools that specialize in this area. The third-party tools usually produce a format file that uses the control codes to encode the layout. The label format file also contains the macros that should be replaced with the actual values before printing.

fmt file

```

AXA
\APW600
\ALL0400
\ALSO
\AF01,10\AGB600,140,8\AFS
\AF01,142\AGB600,140,8\AFS
\AF01,274\AGB600,200,8\AFS
\AF01,466\AGB600,200,8\AFS
\AF02\,20\AAFN,100,20\AFDDelmia A
\AF02,152\AAAN,40,10\AFDArticle
\AF02,284\AAAN,40,10\AFDSKU No:A
\AF02,476\AAAN,40,10\AFDLot No:A
\AF0150,180\AAAN,50,10\AFD{Product
\ABY2,3,80\FT150,400\BCN,,Y,N
\AFD{ProductNo}\AFS
\ABY2,3,80\FT150,592\BCN,,Y,N
\AFD{LotNo}\AFS
\AXZ

```

xml file

```

<?xml version="1.0" encoding="UTF-8"?>
<LabelDefinition>
  <LabelID>TRNX.X.PRODUCT</LabelID>
  <LabelName>TRNX.X.Product</LabelName>
  <LabelDescription>Product Label</LabelDescription>
  <Version>2016</Version>
  <InputParameters>
    <LabelParameter>
      <Name>ProductNo</Name>
      <Description>Product No</Description>
      <Type>Char</Type>
    </LabelParameter>
    <LabelParameter>
      <Name>ProductDesc</Name>
      <Description>Product Description</Description>
      <Type>Char</Type>
    </LabelParameter>
    <LabelParameter>
      <Name>LotNo</Name>
      <Description>Lot No</Description>
      <Type>Char</Type>
    </LabelParameter>
  </InputParameters>
  <LabelFields>
    <LabelField>
      <Name>ProductNo</Name>
      <Description>Product No</Description>
      <Type>Char</Type>
      <KeyValueNumber>1</KeyValueNumber>
    </LabelField>
    <LabelField>
      <Name>ProductDesc</Name>
      <Description>Product Description</Description>
      <Type>Char</Type>
      <KeyValueNumber>2</KeyValueNumber>
    </LabelField>
    <LabelField>
      <Name>LotNo</Name>
      <Description>Lot No</Description>
      <Type>Char</Type>
      <KeyValueNumber>3</KeyValueNumber>
    </LabelField>
  </LabelFields>
  <MappingType>Replacement</MappingType>
  <LabelDataProviders>
    <CodePage/>
  </LabelDataProviders>
</LabelDefinition>

```

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Label Definition File

A label definition file contains all the information required by the label printing framework to process and print a label.

One label definition file should be created per single label during the label design.

A label definition file is a simple XML document that is compliant with a Label Definition schema, and it looks like the file shown here.

The Label Printing Technical Guide in the Product Documentation contains descriptions of all tags in the label definition file.

DELMIA Apriso supports multiple ways to produce labels. For this training we will use Replacement mapping.

```
<?xml version="1.0" encoding="UTF-8"?>
<LabelDefinition>
    <LabelID>TRN.PRODUCT</LabelID>
    <LabelName>TRN.Product</LabelName>
    <LabelDescription>Product Label</LabelDescription>
    <Version>2017</Version>
    <InputParameters>
        <LabelParameter>
            <Name>ProductNo</Name>
            <Description>Product No</Description>
            <Type>char</Type>
        </LabelParameter>
        <LabelParameter>
            <Name>ProductDesc</Name>
            <Description>Product Description</Description>
            <Type>char</Type>
        </LabelParameter>
        <LabelParameter>
            <Name>LotNo</Name>
            <Description>Lot No</Description>
            <Type>char</Type>
        </LabelParameter>
    </InputParameters>
    <LabelFields>
        <LabelField>
            <Name>ProductNo</Name>
            <Description>Product No</Description>
            <Type>char</Type>
            <KeyValueNumber>1</KeyValueNumber>
        </LabelField>
        <LabelField>
            <Name>ProductDesc</Name>
            <Description>Product Description</Description>
            <Type>char</Type>
            <KeyValueNumber>2</KeyValueNumber>
        </LabelField>
        <LabelField>
            <Name>LotNo</Name>
            <Description>Lot No</Description>
            <Type>char</Type>
            <KeyValueNumber>3</KeyValueNumber>
        </LabelField>
    </LabelFields>
    <MappingType>Replacement</MappingType>
    <LabelDataProviders>
    </LabelDataProviders>
    <CodePage/>
</LabelDefinition>
```

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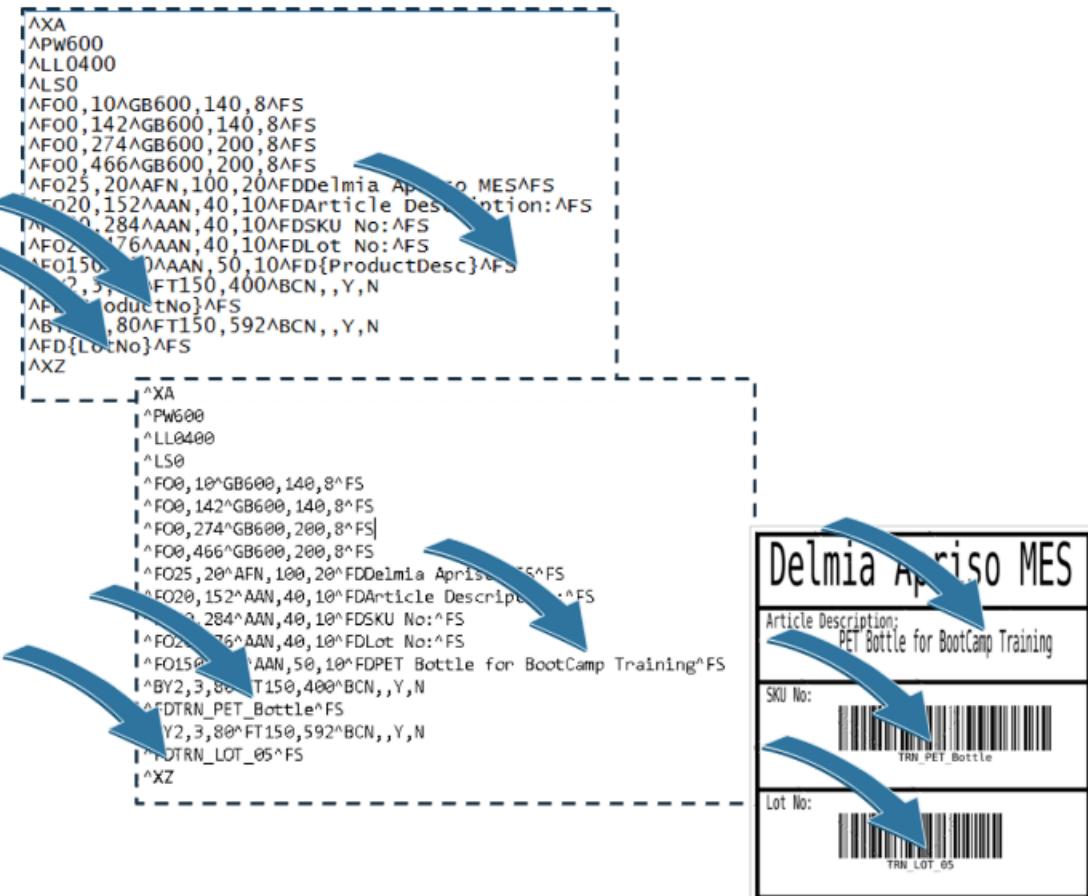
Label Template File

Replacement mapping works in the following way.

The system takes the content of the template file, looks for all the macros (that are placeholders for the actual values - visible as variable names in curly brackets), and replaces the found macros with the values of corresponding parameters.

This method allows for the embedding of actual data into label format files or any other type of file.

The mapping author's responsibility is to provide a label format that matches the printer or third-party printing software requirements with the embedded macros. The names of the parameters used in the macros must match the names of the parameters defined for the label and retrieved by the data providers. The parameter names are case sensitive.



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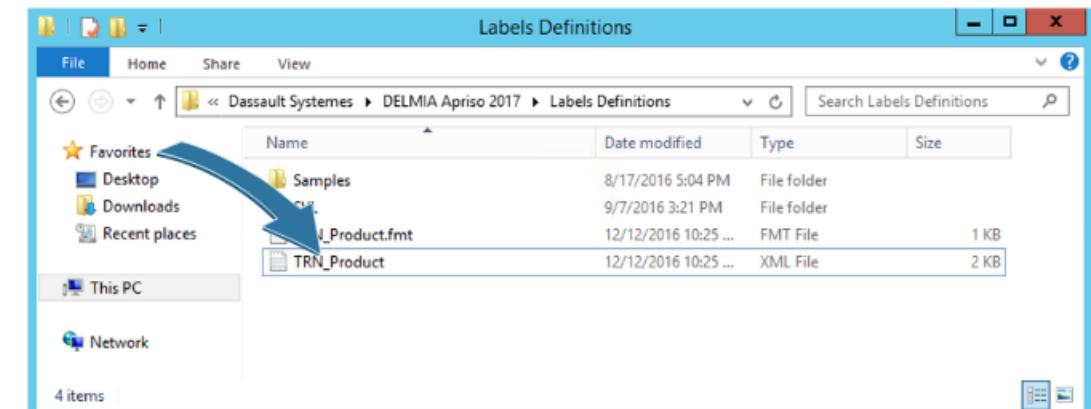
End of Course

Adding Label Definition to DELMIA Apriso System

In order to configure label printing properly, the label definition file and the label template file need to be stored in a designated folder on the server:

- ▶ C:\Program Files\Dassault Systemes\DELMIA Apriso 2017\Labels Definitions

Then the labels need to be added in the Report Administrator Screen in the DELMIA Apriso Classic Portal.



Name	Original name	Description
Employee Badge Label	Employee Badge Label	Label should be used to print employee badge
Employee List Label	Employee List Label	Label should be used to print employee list
Inventory 2 Item Label	Inventory 2 Item Label	Label should be used to print inventory 2 items
Inventory 2 Item Simple Label	Inventory 2 Item Simple Label	Label should be used to print inventory 2 simple items
Pallet	Pallet	Pallet
PalletSSCC	PalletSSCC	Pallet SSCC
Quality Sample Label	Quality Sample Label	Label should be used to identify quality sample
TRN Product	TRN Product	Product Label



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Submit Print Request Function

To make the system print a label, you will need to use the Submit Print Request function in Process Builder:

- 1 Select Label as the print request type
- 2 Then the system will show you a drop down list with label definitions to select from
- 3 You can decide whether to print to a file or a printer
- 4 You can also decide whether the label should be printed in a synchronous mode (the system will wait for confirmation the label print job was completed before moving to the next step) or in an asynchronous mode (the system will move on after the printing job is submitted)
- 5 The Input parameters mapping will change based on the label template, and will show which Submit Print request function inputs map to which label parameters

The screenshot shows the 'Properties' dialog for the 'PrintLabel_TRN_Product' function in Oracle Process Builder. The dialog is organized into several sections:

- General:** Contains fields for Name (PrintLabel_TRN_Product), Description, and Type (Submit Print Request).
- Type:** Shows the selected type as 'Submit Print Request'.
- Print request type:** Radio buttons for Report, Label (selected), and Reprint. The 'Label' button is highlighted with a blue circle labeled '1'.
- Label:** A dropdown menu showing 'TRN.Product'.
- Delivery type:** Radio buttons for File and Printer (selected). The 'Printer' button is highlighted with a blue circle labeled '2'.
- Overwrite existing file:** A checked checkbox.
- File format (effective only for Reports):** A dropdown menu showing 'Microsoft Word (doc)'.
- Execution mode:** Radio buttons for Synchronous (selected) and Asynchronous. The 'Synchronous' button is highlighted with a blue circle labeled '3'.
- Pool name:** A dropdown menu showing 'DEFAULT'.
- Input parameters mapping:** A table with columns 'Key' and 'Value'. It maps 'ProductNo' to 'ProductNo', 'ProductDesc' to 'ProductDesc', and 'LotNo' to 'LotNo'. The 'ProductNo' row is highlighted with a blue circle labeled '5'.

A separate callout diagram illustrates the mapping between the input parameters and the corresponding label parameters:

Key	Value
ProductNo	ProductNo
ProductDesc	ProductDesc
LotNo	LotNo

```

graph TD
    A[False] --> B[StoreRequestHistory]
    A --> C[NumberOfCopies]
    B --> D[ReportID]
    C --> E[ProductNo]
    D --> F[ProductDesc]
    E --> G[LotNo]
    F --> H[PrinterID]
    G --> I[LotNo]
    H --> J[PrinterID]
  
```

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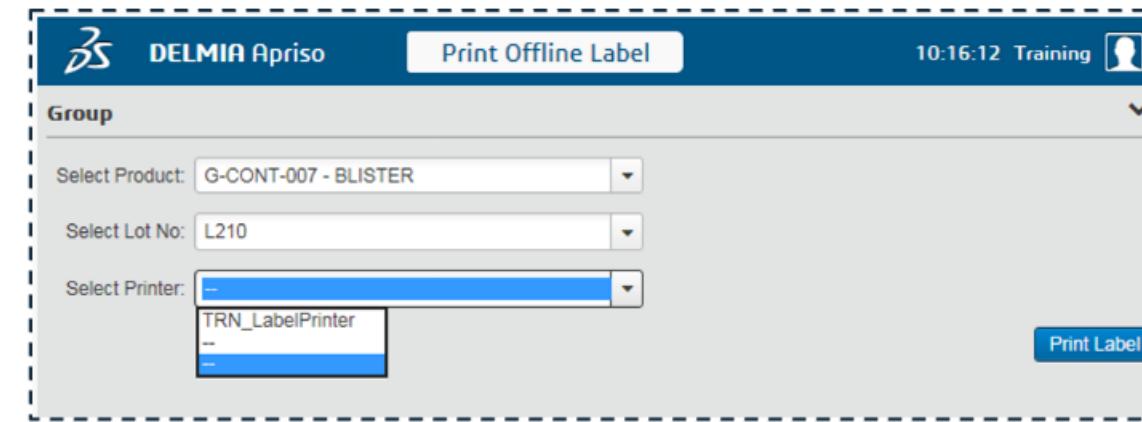
Case Study for Labs

In the practical section of the training you will configure the system to send labels to a specific ZEBRA printer.

The customer is a chemical plant, and products are lot-tracked.

Labels are printed for packages of products coming from specific lots.

The label will need to include the product description, product code, and the lot in which the product package was produced.





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LAB 1: Label Definition

Task:

- ▶ Set up the label definition on the server and in the system
- ▶ Add a new printer

What you will learn:

- ▶ How to work with label definition files
- ▶ How to define and configure a ZEBRA printer

Training environment:

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



Remember to use the following to login and name Screens thorough this entire training:

- TRN<yourinitials> if you are an external self-paced learner
- TRN<yourtrigram> if you are a 3DS employee self-paced learner



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LAB 1: Create Label Definition and Template Files

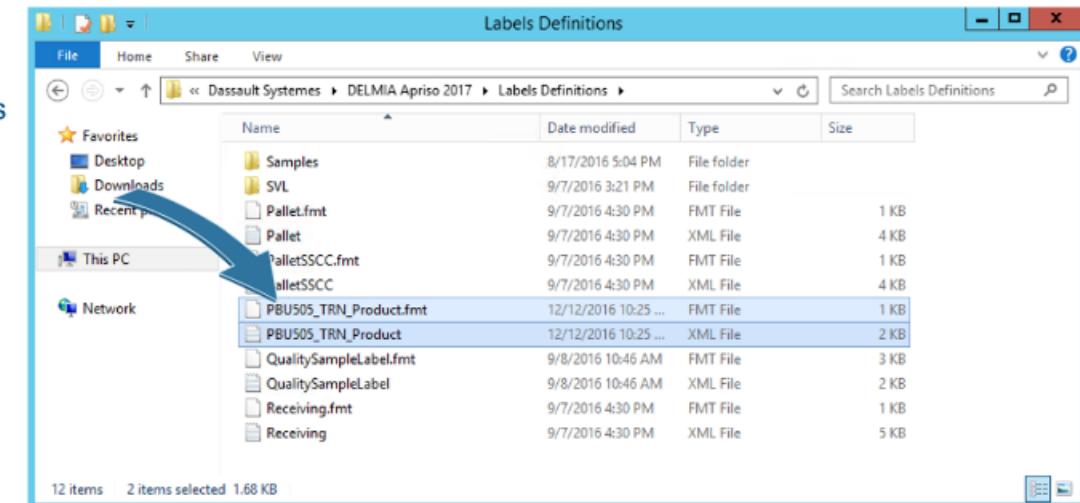
- ▶ Go to Windows Explorer on your training server.
- ▶ Go to the C:\Program Files\Dassault Systems\DELMIA Apriso 2017\Labels Definitions folder
- ▶ Create a file PBU505_TRNXX_Product.xml and put there the content of [PBU505_TRNXX_Product.xml] *
- ▶ Create a file PBU505_TRNXX_Product.fmt and put there the content of [PBU505_TRNXX_Product.fmt] *



* In classroom training, use the fmt and xml files provided by the trainer.

These are files defining the label:

- ▶ the fmt file is the label template definition.
Variables in curly brackets are replaced with the values during execution
- ▶ the xml file is the configuration file



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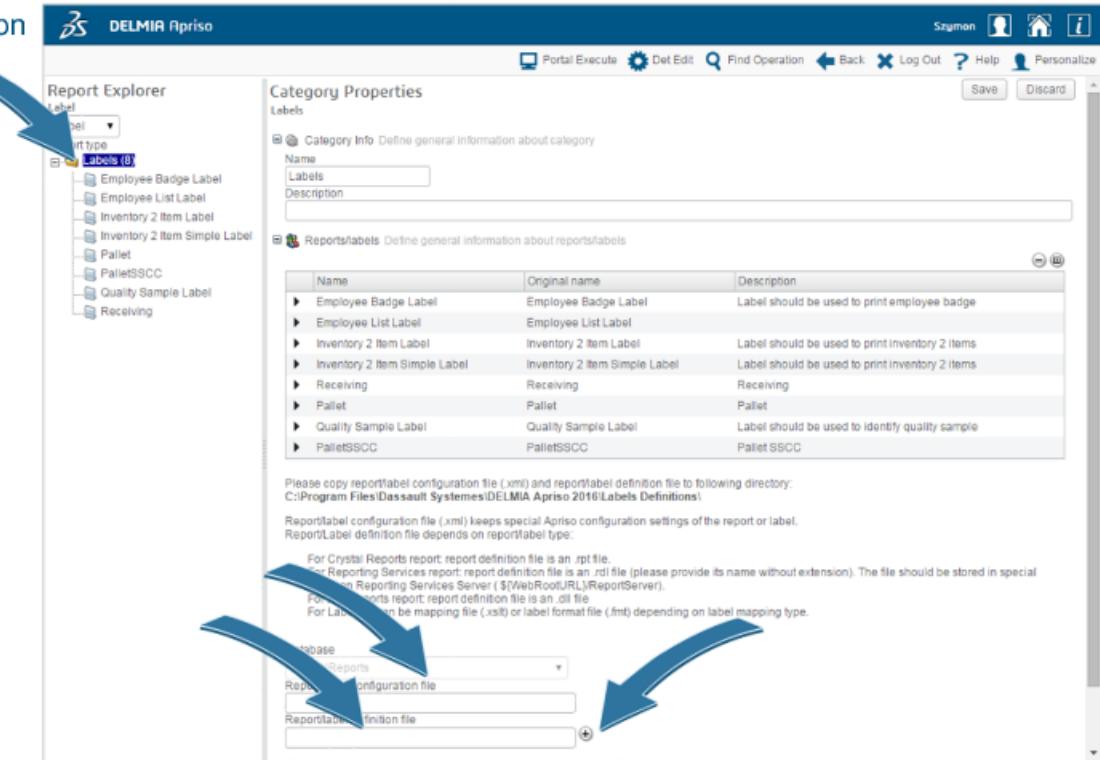
LAB 2: Create Label Printing Screen

LAB 2: Create Label Product List

LAB 1: Add Label Definition

In the next step, you have to add a new label definition using the files from the previous step.

- ▶ In the DELMIA Apriso Portal, find the Report Administrator screen (use the Quick launch search box)
- ▶ Choose Label from the drop-down list
- ▶ Click on Labels group
- ▶ Fill the Report/Label Configuration File field with PBU505_TRNXX_Product.xml
- ▶ Fill the Report/Label Definition File field with PBU505_TRNXX_Product.fmt
- ▶ Click the plus icon



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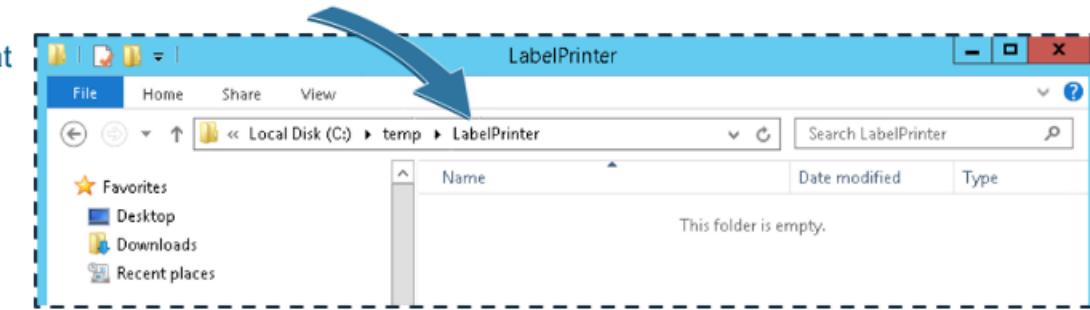
LAB 2: Create Label Printing Screen

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LAB 1: Create Test Printer Folder

Now, let's add a new test printer. To easily check what is printed - you will configure it to put an output to specific folder.

- ▶ On the server, create the folder
C:\temp\LabelPrinter



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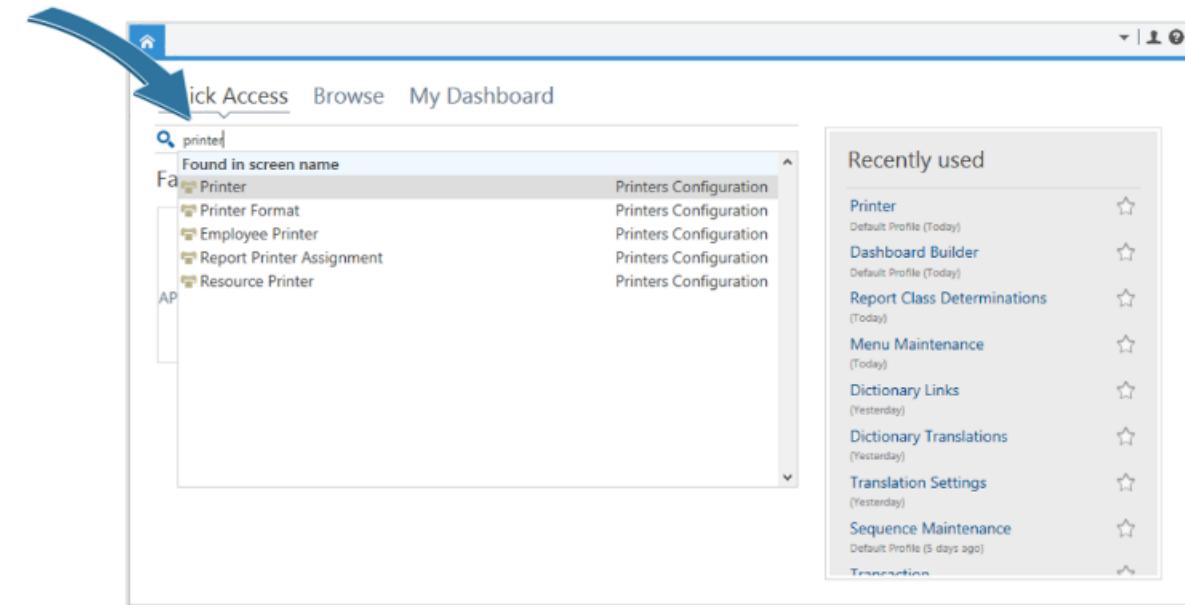
LAB 2: Create Label Printing Screen

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LAB 2: Create Label Product List

LAB 1: Open Printer Configuration

- ▶ Run the DELMIA Apriso Desktop Client
- ▶ Go to Printer



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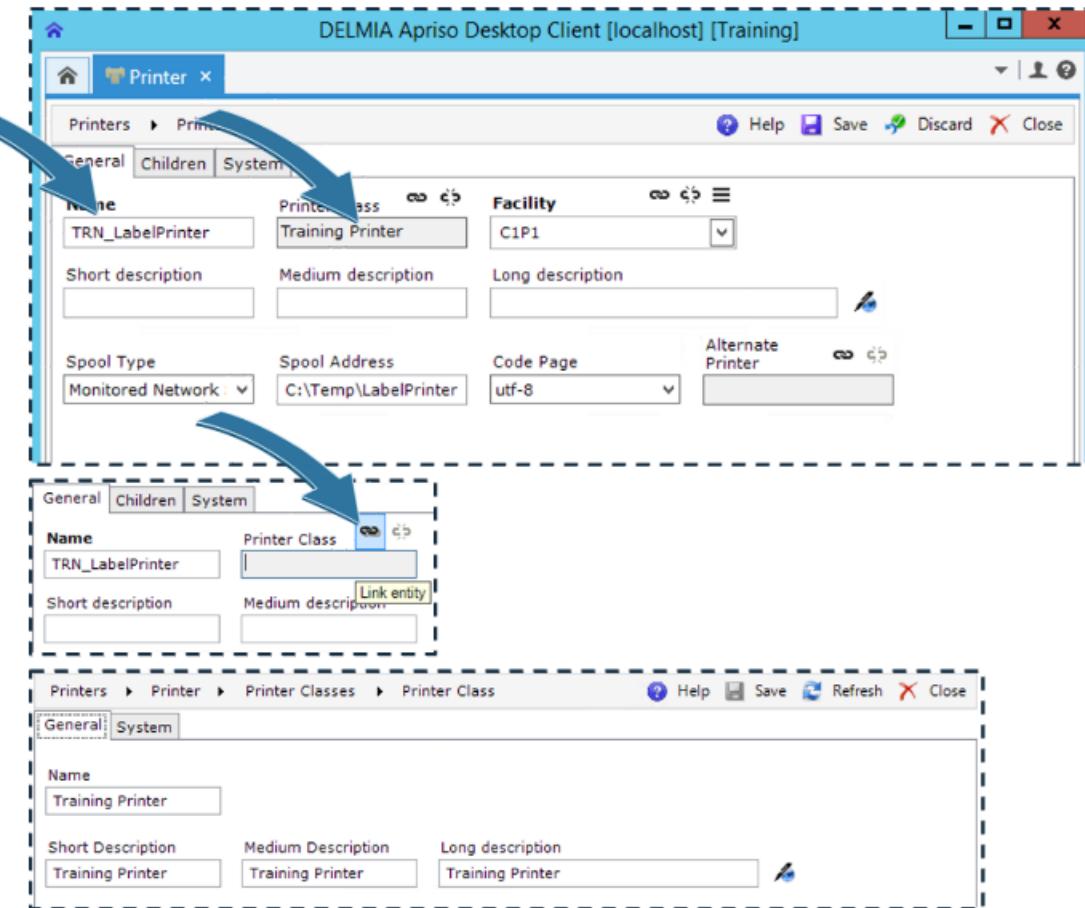
LAB 1: Add Printer Configuration

- ▶ Add the printer:
 - Name: **TRNXX_LabelPrinter**
 - Printer Class: **Training Printer**
 - If the class does not exist, create it (see below)
 - Facility: **C1P1**
 - SpoolType: **Monitored Network Share**
 - Spool Address: **C:\Temp\LabelPrinter**
 - Code Page: **utf-8**

The label definition files are now properly set up, and you have one label printer configured in the system

To create Printer Class:

- ▶ Click Link entity button
- ▶ In printer class window click Add + button
- ▶ Name: Training Printer
- ▶ Save and Close window
- ▶ Select created Training Printer





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LAB 2: Create Label Printing Screen

Task:

- ▶ Create a Screen to capture data to be included in the label
- ▶ Creating an Action Operation with a Submit Print Request function and attach it to the Screen
- ▶ Use the label file content on an online label generating portal to see how a printer would print your label

What you will learn:

- ▶ How to create a Screen for a label printing

Training environment:

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



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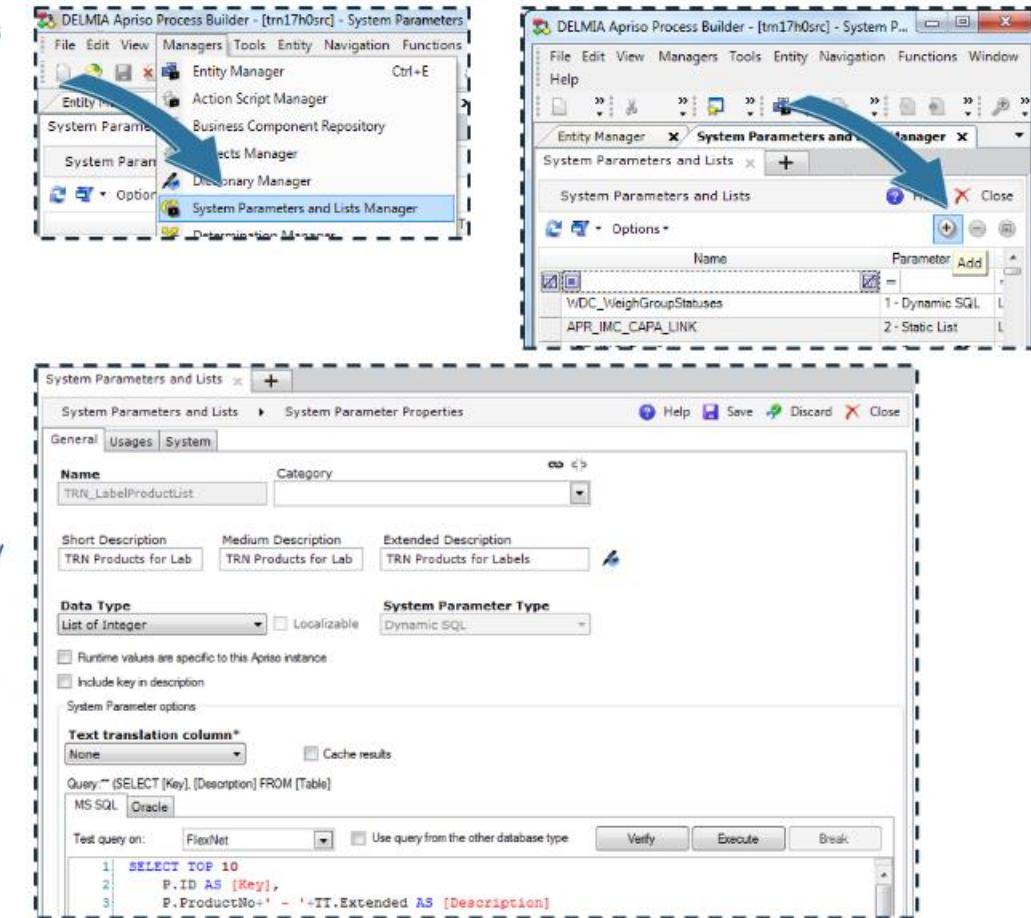
LAB 2: Create Label Product List

LAB 2: Create LotNo Product List

LAB 2: Create Label Product List

- ▶ In Process Builder, open the System Parameters and Lists Manager
- ▶ Create a new SystemParameters/List. Set the properties as follows:
 - Name: **TRNXX_LabelProductList**
 - System Parameter Type: **Dynamic SQL**
 - Click on **Add** Button
- ▶ In System Parameters Property, set as follows:
 - Short Description: **TRNXX Products for Labels**
 - Data Type: **List of Integer**
 - System Parameter option, paste the query from scripts:

SCRIPT FILE: Desktop/Training Materials/Level 1



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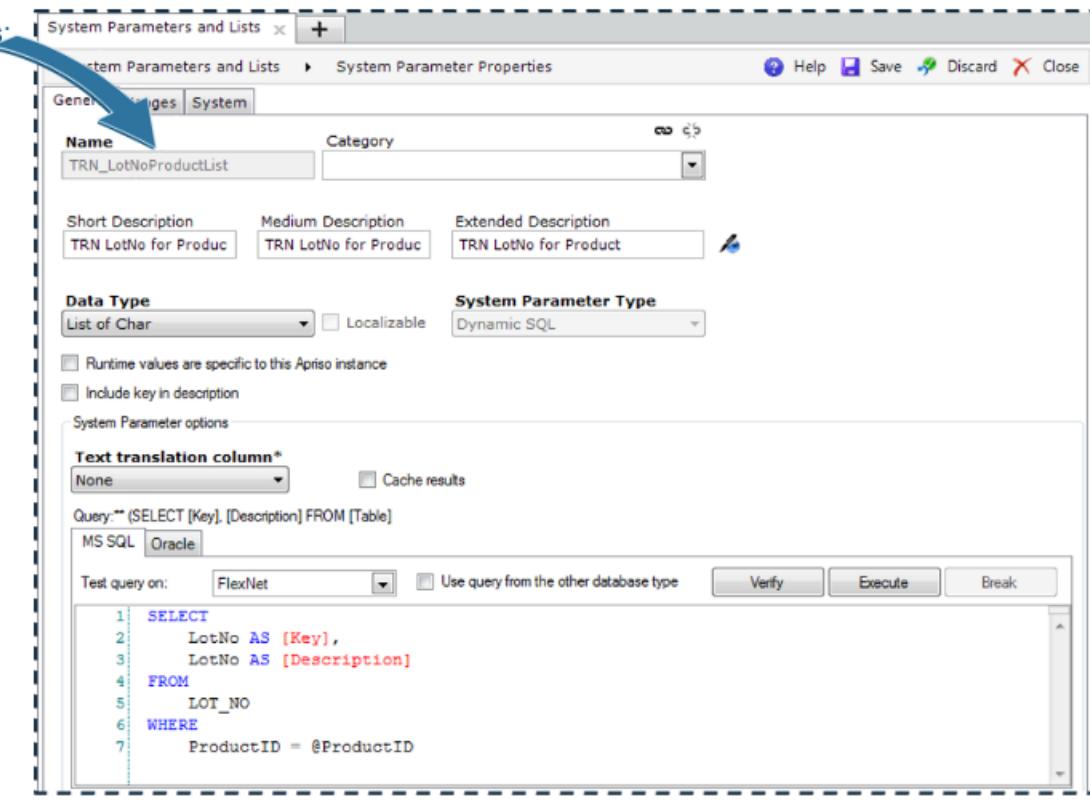
LAB 2: Create Printer List

LAB 2: Create LotNo Product List

- ▶ Create another List. Set the properties as follows:

- Name: **TRNXX_LotNoProductList**
- Short Description: **TRNXX LotNo for Product**
- Data Type: **List of Char**
- System Parameter Type: **Dynamic SQL**, paste the query from scripts:

SCRIPT FILE: Desktop/Training Materials/Level 1



```

Name: TRN_LotNoProductList
Category: 
Short Description: TRN LotNo for Product
Medium Description: TRN LotNo for Product
Extended Description: TRN LotNo for Product

Data Type: List of Char
System Parameter Type: Dynamic SQL

Runtime values are specific to this Apriso instance
Include key in description

Text translation column*: None Cache results
Query: (SELECT [Key], [Description] FROM [Table])
MS SQL Oracle
Test query on: FlexNet Use query from the other database type Verify Execute Break
1: SELECT
2:   LotNo AS [Key],
3:   LotNo AS [Description]
4: FROM
5:   LOT_NO
6: WHERE
7:   ProductID = @ProductID
  
```

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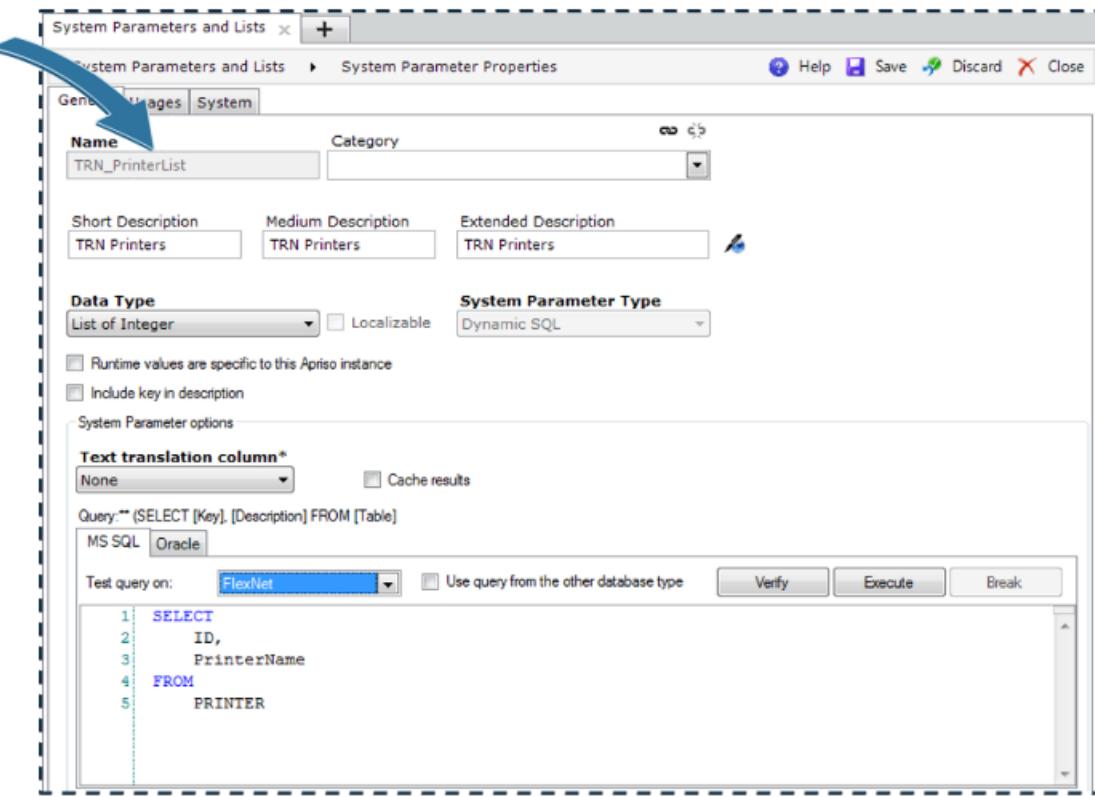
LAB 2: Create LotNo Product List

LAB 2: Create Printer List

LAB 2: Create Printer List

- ▶ Create a third List. Set the properties as follows:
 - Name: **TRNXX_PrinterList**
 - Short Description: **TRNXX Printers**
 - Data Type: **List of Integer**
 - System Parameter Type: **Dynamic SQL**, paste query from scripts:

SCRIPT FILE: Desktop/Training Materials/Level 1



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Labelling in the Manufacturing World

Generating Labels in DELMIA Apriso

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Label Template File

Adding Label Definition to DELMIA Apriso System

Submit Print Request Function

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LAB 1: Add Printer Configuration

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LAB 2: Create Label Product List

LAB 2: Create LotNo Product List

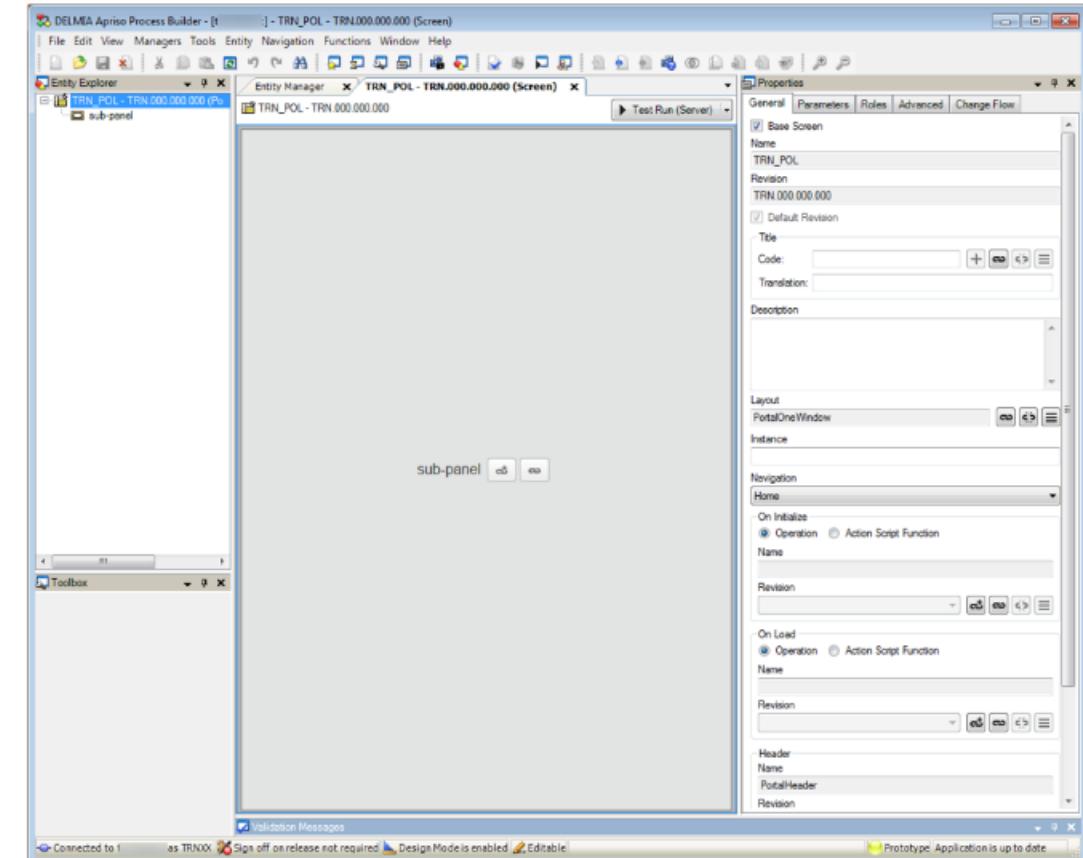
LAB 2: Create Printer List

LAB 2: Create TRNXX_POL Screen

LAB 2: Create TRNXX_POL Screen

► Create a new screen:

- Name: **TRNXX_POL**
- Base Screen: **checked**
- Title Translation: **Print Offline Label**
- Layout: **PortalOneWindow**
- Navigation: **Home**
- Header: **PortalHeader**



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LAB 2: Create LotNo Product List

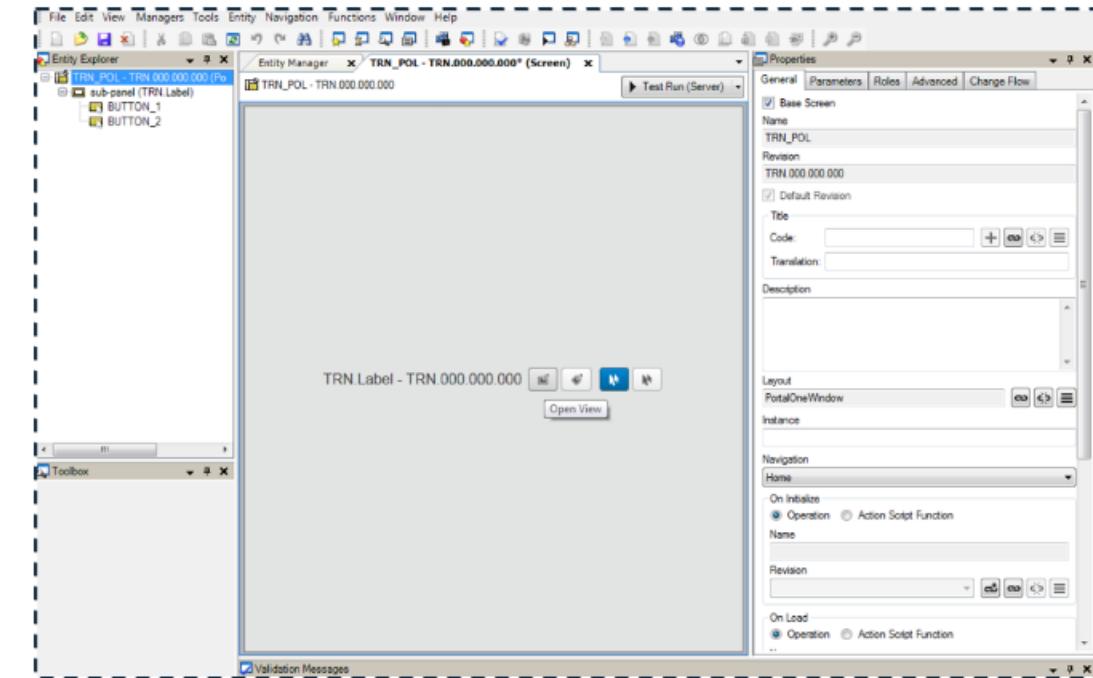
LAB 2: Create Printer List

LAB 2: Create TRNXX_POL Screen

LAB 2: Duplicate And Link View

LAB 2: Duplicate And Link View

- ▶ Use Copy And Link View button
- ▶ Choose: **PortalForm**
- ▶ New Entity: **TRNXX.Label**
- ▶ Click Open View button



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Generating Labels in DELMIA
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LAB 2: Duplicate And Link View

LAB 2: Add Group of Controls

LAB 2: Add Group of Controls

- ▶ Delete the existing actions and groups
- ▶ Add one Group with three controls:

ProductID:

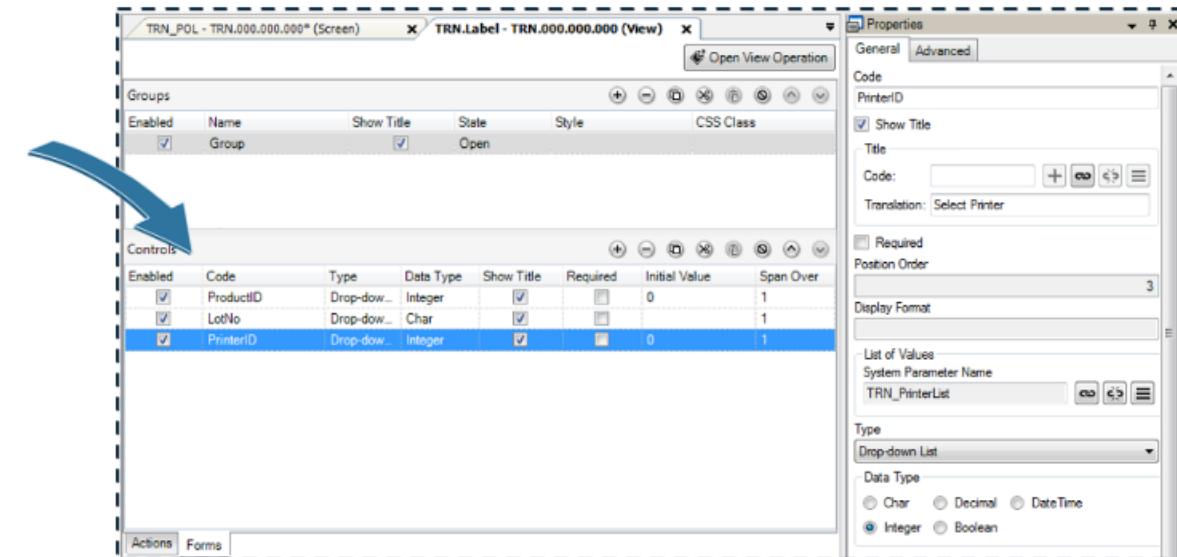
- Translation: **Select Product**
- Type: **Drop-down List**
- Data Type: **Integer**
- List of Values: link
TRNXX_LabelProductList

LotNo:

- Translation: **Select Lot No**
- Type: **Drop-down List**
- Data Type: **Char**
- List of Values: link
TRNXX_LotNoProductList

PrinterID:

- Translation: **Select Printer**
- Type: **Drop-down List**
- Data Type: **Integer**
- List of Values: link
TRNXX_PrinterList



Enabled	Code	Type	Data Type	Show Title	Required	Initial Value	Span Over
<input checked="" type="checkbox"/>	ProductID	Drop-down	Integer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	1
<input checked="" type="checkbox"/>	LotNo	Drop-down	Char	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1
<input checked="" type="checkbox"/>	PrinterID	Drop-down	Integer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	1

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- Label Definition File
- Label Template File
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 - LAB 2: Add Group of Controls
 - LAB 2: Add Operation and Functions**

LAB 2: Add Operation and Functions

Now you will create an operation to send a label for the chosen product. The operation will be triggered by a Button type Action.

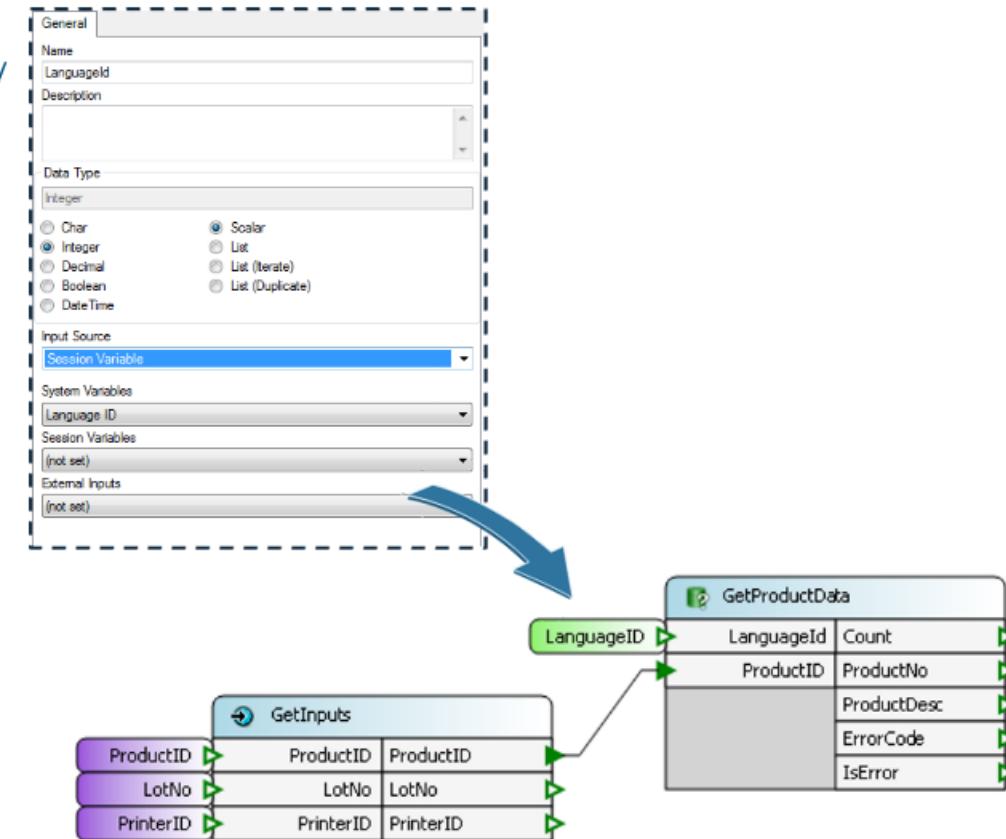
- ▶ Add a new operation: TRNXX.POL.SendLabel
- ▶ Make the subtype Action

The operation will have one step with three functions:

- ▶ The first function is GetInputs, create ProductID, LotNo and PrinterID external inputs
- ▶ The next function is GetProductData, SQL Query function type (use script from the scripts):

SCRIPT FILE: Desktop/Training Materials/Level 1

- ▶ Change the ProductID data type to Integer
- ▶ Set the LanguageID input to Session Variable
- ▶ Mark the function to return scalar output
- ▶ Connect the ProductID input to the GetInputs function



Label Template File

Adding Label Definition to DELMIA
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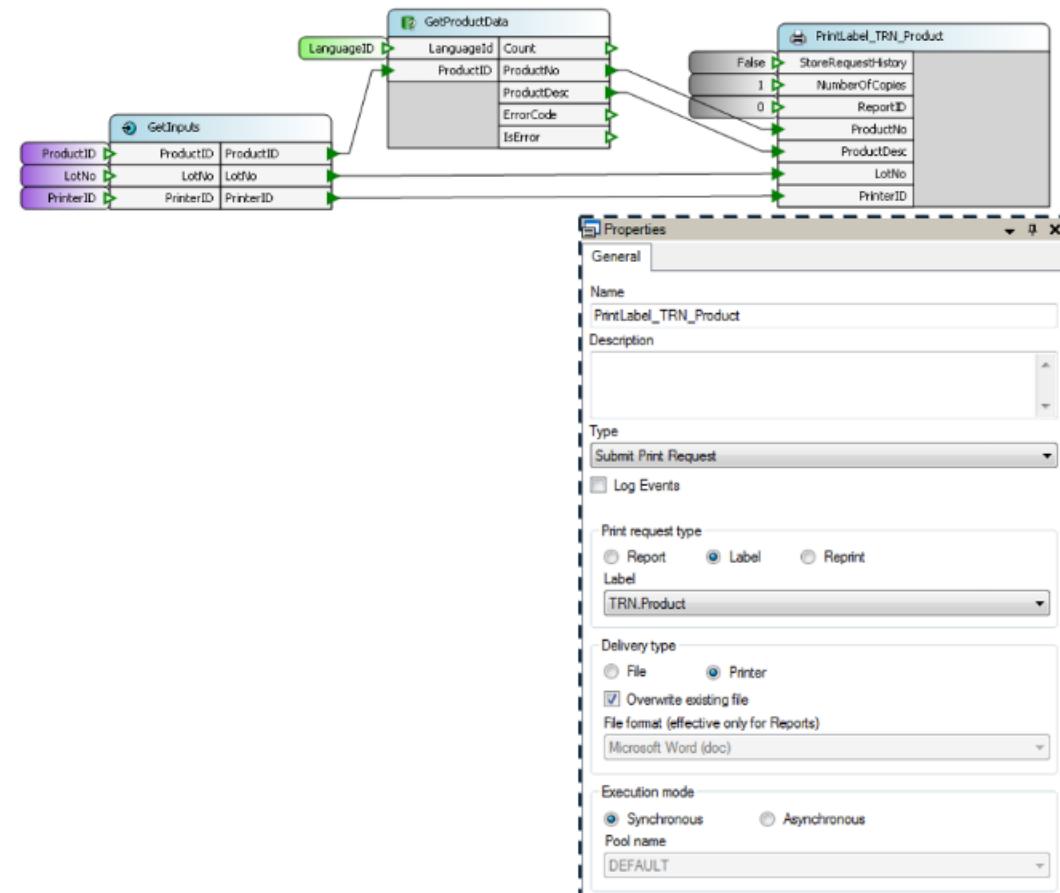
LAB 2: Add Operation and
FunctionsLAB 2: Add New Function to
Operation

LAB 2: Add New Function to Operation

The last function will be responsible for generating a file for printing the label:

- Type: **Submit Print Request**
 - Print Request type: **Label**
 - Label from drop-down list: **TRNXX.Product**
 - Change function name to:
PrintLabel_TRNXX_Product
 - Delivery Type: **Printer**
 - Execution Mode: **Synchronous**
- ▶ Connect the PrinterID and LotNo inputs to the GetInputs function
 - ▶ Connect the ProductNo and ProductDesc inputs with the GetProductData function

The values in the label drop-down list are the labels that were added to the system in the Report Administrator Screen in the Portal.



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Adding Label Definition to DELMIA
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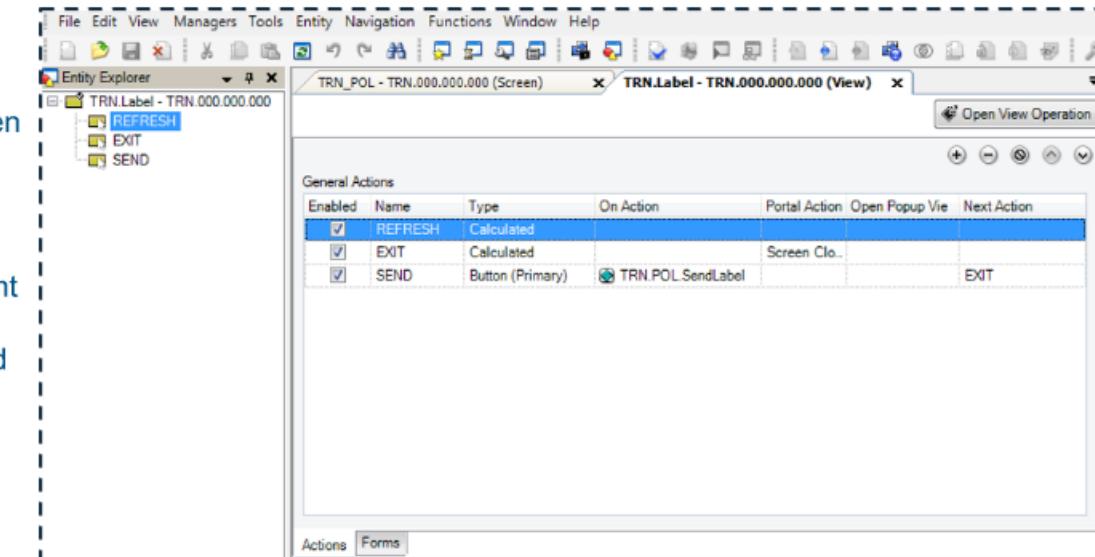
LAB 2: Add Operation and
Functions

LAB 2: Add New Function to
Operation

LAB 2: Add View Actions

LAB 2: Add View Actions

- ▶ Go back to the TRNXX.Label View
- ▶ Add three Actions:
 - **REFRESH** - Calculated, with Go To Screen Action without specifying target screen
 - **EXIT** - Calculated, and Portal Action - Screen Close
 - **SEND** - Button (Primary), Translation: Print Label, with Operation TRNXX.POL.SendLabel as OnAction, and the NextAction as EXIT





Submit Print Request Function

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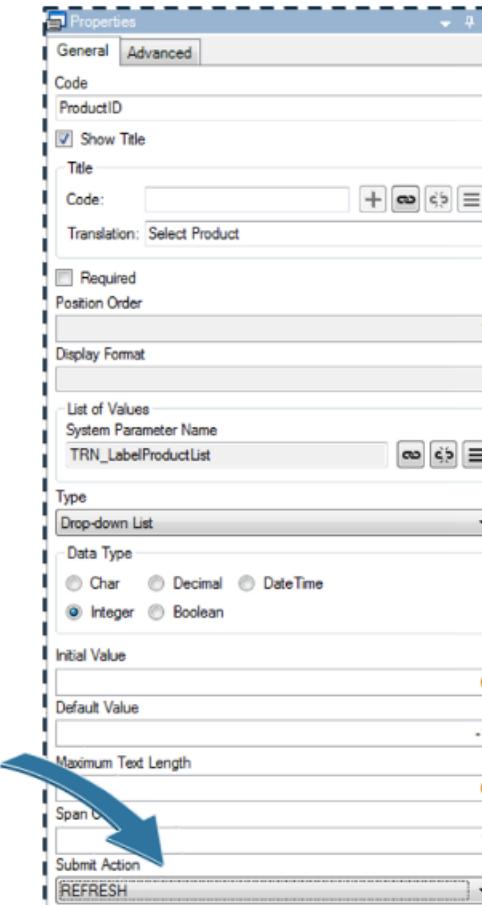
LAB 2: Add New Function to Operation

LAB 2: Add View Actions

LAB 2: Define Submit Action

LAB 2: Define Submit Action

- ▶ Go to the Forms tab, to the ProductID Control properties
- ▶ Assign the REFRESH Action as the Submit Action. It will trigger the Screen refresh after the Product field value is changed, which will provide the ProductID value for the LotNo selection
- ▶ Save the View and the Screen, and make sure all are in Prototype



Search... 

SUBMIT YOUR REQUEST FOR SUPPORT 

▼ Chapter 2: Labs

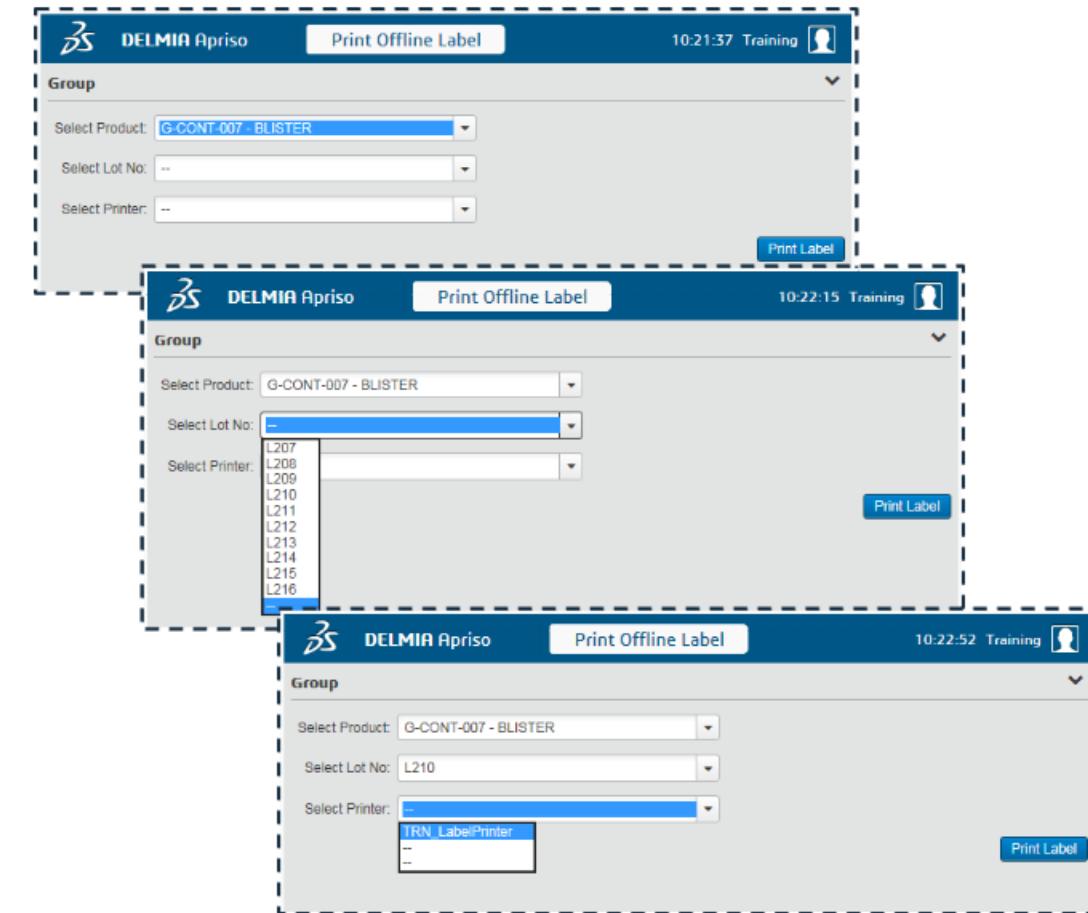
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LAB 2: Test Run TRNXX_POL

LAB 2: Test Run TRNXX_POL

- ▶ Go to the screen, and use Test Run
- ▶ Choose a product from the list
- ▶ Choose a lot number
- ▶ Choose your defined printer
- ▶ Click Print Label

- ▶ The Operation will be closed, and you need to check in the spool folder if the print file was generated correctly.



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<hr/>	
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LAB 2: Open PAS File	

LAB 2: Open PAS File

- ▶ Go to the server's C: drive, and go to the folder you created to store spooled label files
- ▶ Look for a .pas file which is newly created
- ▶ Open the file using Notepad
- ▶ Observe that the file content, matches the label template file, and it has variable fields replaced with current values, the ones you picked from the drop-down list

```

^XA
^PW600
^LL0400
^LS0
^FO0,10^GB600,140,8^FS
^FO0,142^GB600,140,8^FS
^FO0,274^GB600,200,8^FS
^FO0,466^GB600,200,8^FS
^FO25,20^AFN,100,20^FDDelmia Apriso MES^FS
^FO20,152^AAN,40,10^FDArticle Description:^FS
^FO20,284^AAN,40,10^FDSKU No:^FS
^FO20,476^AAN,40,10^FDLot No:^FS
^FO150,180^AAN,50,10^FDBLISTER^FS
^BY2,3,80^FT150,400^BCN,,Y,N
^FDG-CONT-007^FS
^BY2,3,80^FT150,592^BCN,,Y,N
^FDL210^FS
^XZ

```

Case Study for Zebra

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LAB 2: Open PAS File

LAB 2: Preview Label

LAB 2: Preview Label

- ▶ Use the ZEBRA language emulation tool to view the label:

- Copy the .pas file content
 - If you cannot paste the file content from your training server into the web page (the internet on the training server may be disabled), use the attached TrainingLabel.pas file to past the content into the labelary.com portal
 - Open an internet browser
 - Go to <http://labelary.com/viewer.html>
 - Paste the .pas file content, and click Redraw
 - Your label is ready!

Online ZPL Viewer

```

^XA
^PW600
^LL0400
^LS0
^FO0,10^GB600,140,8^FS
^FO0,142^GB600,140,8^FS
^FO0,274^GB600,200,8^FS
^FO0,406^GB600,200,8^FS
^FO25,20^AFN,100,20^FDDelmia Apriso MES^FS
^FO20,152^AAN,40,10^FDArticle Description:^FS
^FO20,284^AAN,40,10^FDSKU No:^FS
^FO20,476^AAN,40,10^FDLot No:^FS
^FO150,180^AAN,50,10^FDSODIUM SULFATE^FS
^BY2,3,80^FT150,400^BCN,,Y,N
^FDB-CHEM-001^FS
^BY2,3,80^FT150,592^BCN,,Y,N
^FDR117320_LOT01^FS
^XZ

```

Redraw Add image Permalink for current label



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See all 10 available sections

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LAB 1: Add Label Definition

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LAB 1: Open Printer Configuration

LAB 1: Add Printer Configuration

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LAB 2: Test Run TRNXX_POL

LAB 2: Open PAS File

LAB 2: Preview Label

End of LAB 2

Summary

Summary

In this training module, you got introduced to the label printing framework, and to the Submit Print Request function.

Whenever you need more details about how to configure labels in the DELMIA Apriso system, please refer to the Label Printing Technical Guide in the Product Documentation which you will find on each DELMIA Apriso server.

The screenshot shows the DELMIA Apriso 2017 Start page. At the top, there are links for 'Log In to DELMIA Apriso Portal' (new), 'Log In to Apriso Classic Portal', 'Set Up DELMIA Apriso Client', and 'View Product Documentation'. Below this, a section titled 'Product Documentation' is shown with a list of technical guides. A blue arrow points from the text above to this list. The list includes items like 'DELMIA Apriso Release Notes', '21 CFR Part 11 Compliance Implementation Guide', 'Access Control List Technical Guide', 'Alerts Implementation Guide', 'Audit Trail Technical Guide', 'Background Job Processing Technical Guide', 'BPF Business Process Flow Guide', 'Business Control Development Technical Guide', 'Business Integrator - Configuration Guidelines Technical Guide', 'Business Integrator - External System Integration Analysis Technical Guide', 'Business Integrator - Integration Planning Technical Guide', 'Business Integrator - SAP Business Connector Technical Guide', 'COE Data Replication Using Data Extractor BC Technical Guide', 'Containment Implementation Guide', 'DAL Wizard Technical Guide', 'Dashboard Builder Implementation Guide', 'Data Visualization Implementation Guide', 'Database Management (Functional) Implementation Guide', 'DELMIA Apriso Administration Guide', 'DELWIZ Installation Guide', 'DELMIA Apriso Over the Internet Implementation Guide', 'DELMIA Apriso Upgrade Guide', 'ITAR Business Process Flow Guide', 'Label Printing Technical Guide', and 'Logging Technical Guide'. To the right of the documentation list, there is a 'Label Printing' section with a 'DELMIA Apriso 2017 Technical Guide' link and a circular icon with '3D', 'V.R', and a play button symbol. The bottom right corner of the slide has the '3DEXPERIENCE' logo.