

## Lesson 7 Input Sets

*“In the data model, the ABContact entity has two fields to store email addresses. However, currently, the UI only displays one email address for companies and none for persons. We want to be able to see and edit both the primary and secondary email addresses. Both email addresses should be displayed on the Summary page and Phone & Addresses card of the contacts.”* – Insurance company business analysts

In this lab, you will create an Input Set. Next, you will add widgets for a contact's main and alternate email addresses to the Input Set. Then, you will add your Input Set to various PCF files.

The diagram illustrates the integration of a new 'Email Addresses' Input Set into two existing PCF pages for a law firm named 'Allendale, Myers & Associates'.

**Summary Page:** This page has tabs for 'Basics', 'Social Media', and 'Analysis'. The 'Basics' tab is active, showing a 'Suggest Least Busy User' button and a 'Basic Information' section with fields for Name, Public ID, and Created On. Below this is an 'Assigned User' dropdown and an 'Email Address' field. The 'Primary Address' section includes fields for Country, Address 1, Address 2, Address 3, City, County, State, and ZIP Code.

**Details Page:** This page has tabs for 'Company Info', 'Phone & Addresses', 'Bank Accounts', and 'Vendor Info'. The 'Phone & Addresses' tab is active, showing 'Phone Numbers' (Work and Fax) and 'Primary Address' (Country, Address 1, Address 2, Address 3, City, County, State, and ZIP Code).

**Email Addresses Input Set:** A separate box at the bottom shows the structure of the new input set, with labels 'Main' and 'Alternate' next to empty text input fields. Two red arrows point from this input set box to the 'Email Address' field on the Summary page and the 'Primary Address' section on the Details page, indicating where the new input set will be integrated.

## 7.1 Prerequisites

For this lab, use TrainingApp, Guidewire Studio, and a supported web browser.

`http://localhost:8880/ab/ContactManager.do` is the default URL for TrainingApp. To view, edit, and delete various contacts, log in to TrainingApp as Alice Applegate. The login/password for Alice Applegate is `aapplegate/gw`.

## 7.2 Lab: Create an Input Set

As a configuration developer, you want to be able to create Input Sets so that you can reuse a set of widgets together and/or control the visibility/editability of the set widgets. In this part of the lab, you will create the reusable `EmailAddressInputSet.pcf`.

### 1. Create and configure the EmailAddressInputSet PCF file:

- a) Create the Input Set in the `traininglabs` folder
- b) Specify a root object of the type `ABContact`
- c) Add the following widgets:
  - Add a label widget that displays “Email Addresses”
  - Add an editable input widget labeled “Main” that displays `ABContact`’s `EmailAddress1` field
  - Add an editable input widget labeled “Alternate” that displays `ABContact`’s `EmailAddress2` field

### 2. Use Studio’s code generation feature to process the PCF file and generate all the resources

- a) If possible, use incremental code generation
- b) Verify that there were no errors during code generation
  - Verify that you can see generated resources (`.gs`, `.pcf`, `Expressions.gs`)



### Hint

Configuring input widgets

Remember, you will have to select a specific input widget based on the data type of the field. You can always use the Data Dictionary, the generated Java class, and the widget reference table to find out the name, database type and Gosu type of the field that needs to be displayed.



## Hint

Required variables vs variables

The required variables tab defines the input parameters for a container, while the variables tab defines local variables to store values temporarily. (E.g. storing the result of an expensive function call to use it at multiple places in the PCF)

## 7.3 Lab: Reference the Input Set

In this lab, you will add the EmailAddressInputSet to various PCF files.

### 1. Add the EmailAddressInputSet to ABContactSummaryDV

- Navigate to ABContactSummaryDV
- Add an Input Divider below the Primary Address section in the same Input Column
- Reference the EmailAddressInputSet directly below the Input Divider

### 2. Add the EmailAddressInputSet to ABPersonDetailsPage

- Navigate to ABPersonDetailsPage and select the Phone & Addresses card
- Reference the EmailAddressInputSet directly below the Primary Address section
- Note: Add additional parent containers as needed.

### 3. Add the EmailAddressInputSet to ABCompanyDetailsPage

- Navigate to ABCompanyDetailsPage and select the Phone & Addresses card
- Reference the EmailAddressInputSet directly below the Primary Address section
- Note: add additional parent containers as needed.



## Hint

Add additional parent containers as needed

An Input Set or Input Set Ref cannot be directly added to a secondary container (e.g. Card View). The only container that can contain an Input Set is the Detail View.

### 7.3.1 Verification



#### Activity

Verify the work you have done

Log in to TrainingApp as Alice Applegate

1. **Use the appropriate shortcut to deploy the changes**
2. **Edit the William Andy contact**
  - a) Navigate to William Andy
  - b) In the Summary, edit the contact
  - c) Enter the Main email for William Andy, e.g., [william@guidewire.com](mailto:william@guidewire.com)
  - d) Enter an Alternate email for William Andy, e.g., [william-andy@gudewire.com](mailto:william-andy@gudewire.com)
  - e) Click update
3. **View the William Andy contact details**
  - a) In the sidebar menu, click Details
  - b) In Details, click Phone & Addresses
  - c) Verify that you see the email addresses that you entered

Actions



Summary

Details

Addresses (3)

Notes (5)

Social Media

Analysis

Interactions

History

Person: William Andy

## Summary

Basics

Social Media

Analysis

Suggest Least Busy User

### Basic Information

Name William Andy

Public ID ab:5

Assigned User Alice Applegate

Email Address willandy@albertsons.com

Created On 06/19/2018

### Primary Address

Address 345 Fir Lane  
La Canada, CA 91352

Address Type Home

Description

Valid Until

### Email Addresses

Main willandy@albertsons.com

Alternate wandy245@gmail.com

TrainingApp

Search

Contact

Actions

Summary

Details

Addresses (3)

Notes (5)

Social Media

Analysis

Interactions

History

Person: William Andy

Details

Person Info

Phone & Addresses

Bank Accounts

Phone Numbers

Primary Phone

Fax Phone

Home Phone

Work Phone

2096662483

Primary Address

Address

345 Fir Lane

La Canada, CA 91352

Address Type

Home

Description

Valid Until

Email Addresses

Main

willandy@albertsons.com

Alternate

wandy245@gmail.com



## 7.4 Lab Solution: Create an Input Set

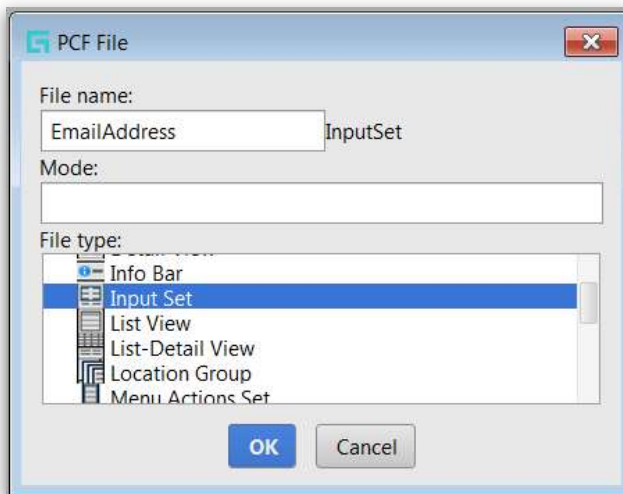


### Solution

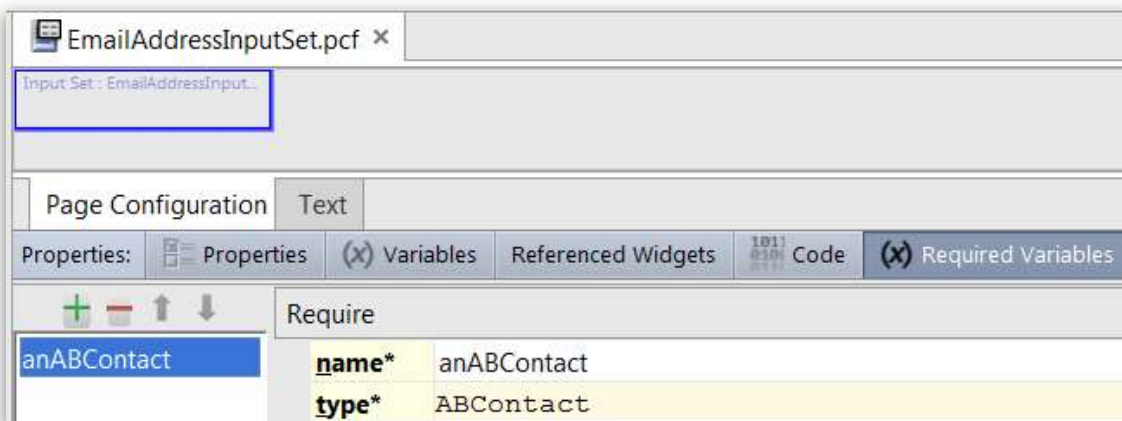
Exact details on how to complete the lab.

1. **Create traininglabs PCF folder if it doesn't exist**

## 2. Create the Input Set

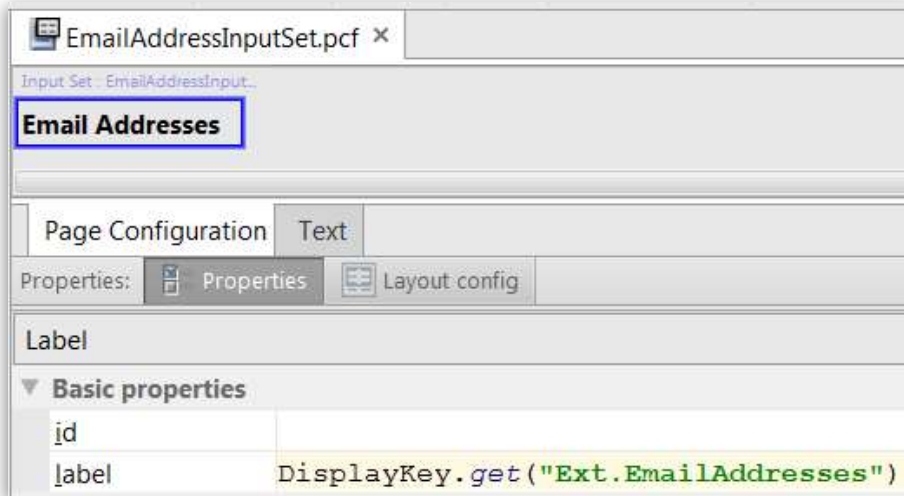


## 3. Specify the root object

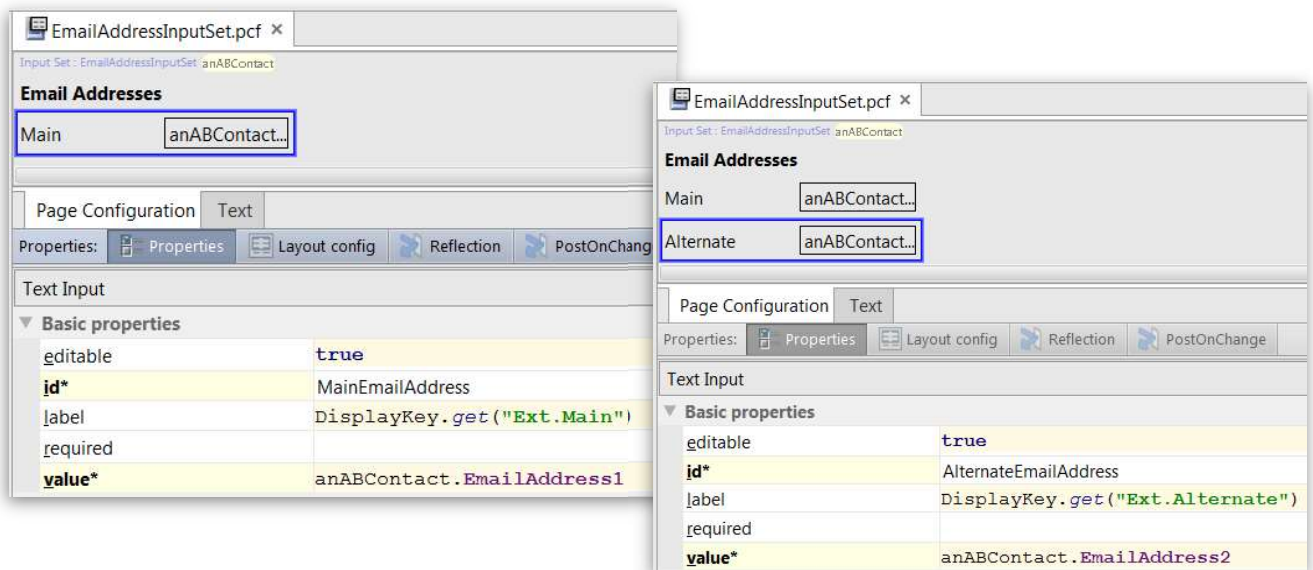




#### 4. Add and configure the label



#### 5. Add and configure the Text Input widgets



## 7.5 Lab Solution: Reference the Input Set



### Solution

Exact details on how to complete the lab.

1. Open the **ABContactSummaryDV**
  - a) Add an Input Divider
  - b) Add and configure the Input Set Ref widget

The screenshot shows a web form titled "ABContactSummaryDV.pcf" with a tab for "EmailAddressInputSet.pcf". The form includes a "Valid Until" date field and a section titled "Input Set Ref" which is highlighted with a blue border. Inside this section, the "Input Set" is set to "EmailAddressInputSet" and "anABContact". Below this, there are two rows: "Main" and "Alternate", each with a button labeled "anABContact...". At the bottom, there is a "Page Configuration" tab and a "Text" tab. Below these, there is a "Properties" section with a "Basic properties" subsection. The "Basic properties" section shows a definition for "def\*" as "EmailAddressInputSet (anABContact)".

Input Set Ref	
Input Set	EmailAddressInputSet anABContact
<b>Email Addresses</b>	
Main	anABContact...
Alternate	anABContact...

Page Configuration Text

Properties Properties

Input Set Ref

▼ Basic properties

def\* EmailAddressInputSet (anABContact)

2. Navigate to the Phone & Addresses card of the ABPersonDetailsPage. Then add and configure the InputSetRef widget.

**Note:** Ensure you add an InputSetRef from the InputLayout category and not an Input Set Ref from the Detail View Tile category. You can check you've used the correct PCF element by highlighting the element and looking in the text tab to ensure it shows as `<InputSetRef/>` and not `<TileInputSetRef/>`.

The screenshot displays the PCF editor interface. At the top, two tabs are visible: 'EmailAddressInputSet.pcf' and 'ABPersonDetailsPage.pcf'. The main workspace shows a 'Detail View' containing an 'Input Column' with an 'Input Set Ref' widget. This widget is configured with 'Input Set: EmailAddressInputSet' and 'anABContact'. Below the widget, a preview titled 'Email Addresses' shows two input fields: 'Main' and 'Alternate', both with the value 'anABContact...'. At the bottom, the 'Page Configuration' tab is active, showing the 'Text' view of the 'Input Set Ref' widget. Under 'Basic properties', the 'def\*' property is set to 'EmailAddressInputSet (anABContact)'.

Page Configuration Text

Properties Properties

Input Set Ref

▼ Basic properties

def\* EmailAddressInputSet (anABContact)

3. Navigate to the Phone & Addresses card of the ABCompanyDetailsPage. Then add and configure the InputSetRef widget.

