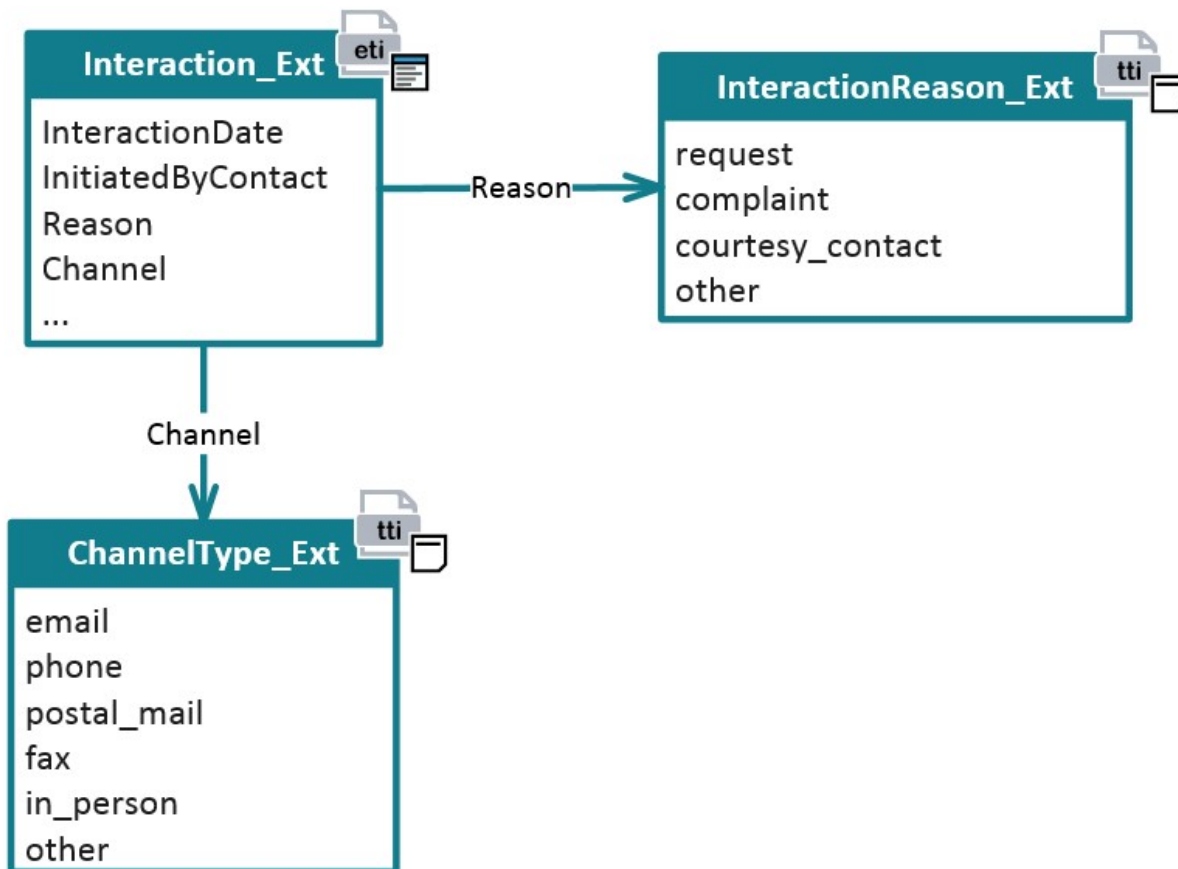


Lesson 4 Typelists

“After further analysis, we decided that we want to store more information about each contact interaction. Please see the diagrams below and configure the Data Model to meet the requirements.” – Insurance company business analysts



In this lab, you will use the Typelist Editor and the Entity Editor in Guidewire Studio to modify the TrainingApp data model. First, you will create two new typelists. Then, you will edit existing entities and associate the new typelists with each respective entity.

4.1 Prerequisites

You must first complete the following previous lesson(s):

6. Creating New Entities

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`.

4.2 Configuration

4.3 Lab: Create new typelists

As a configuration developer, you want to be able to create new typelists from scratch. In this lab, you will create and define two typelists in Guidewire Studio using the Typelist Editor. The `InteractionReason_Ext` typelist will describe the reasons for contact interactions. The `ChannelType_Ext` typelist will describe the various channels of communications for interactions.

1. Create the `InteractionReason_Ext` typelist

- a) Create the new TTI file
- b) Add the following typecodes to display in the order listed using recommended naming conventions:
 - Request
 - Complaint
 - Courtesy Contact
 - Other

2. Use Studio's code generation feature to process the typelist and generate the Java class

- a) If possible, use incremental code generation
- b) Verify that there were no errors during code generation
- c) Open the generated Java class and verify that you can see the newly added typecodes

3. Create the ChannelType_Ext typelist

- a) Create the new TTI file
- b) Add the following typecodes to display in the order listed using the recommended naming conventions:
 - Email
 - Phone
 - Postal Mail
 - Fax
 - In Person
 - Other

4. Use Studio's code generation feature to process the typelist and generate the Java class

- a) If possible, use incremental code generation
- b) Verify that there were no errors during code generation
- c) Open the generated Java class and verify that you can see the newly added typecodes



Best Practices

Use `_Ext` in the typelist name

Notice that the name of the typelist has an `_Ext` suffix. For new typelists, Guidewire recommends that the name of the typelist should end with `_Ext` (or start with `Ext_`). This is to prevent potential conflicts during the upgrade to the next version of the Guidewire application.

4.4 Lab: Add typekey fields to the entity

As a configuration developer, you want to be able to add typekey entity fields that reference typelists. In this lab, you will edit the related entities and add new typekey elements for the newly created typelists.

1. Edit the Interaction_Ext entity

- a) Add a typekey field for the InteractionReason_Ext typelist using the recommended naming convention
- b) Add a typekey field for the ChannelType_Ext using the recommended naming convention

2. Use Studio's code generation feature to generate the Java class from the entity

- a) If possible, use incremental code generation
- b) Verify that there were no errors during code generation
- c) Open the generated Java class and verify that you can see the two new typekey fields



Important!

Read carefully.

For each new entity element, remember to set the `nullOk` attribute to true, otherwise, the database upgrade may fail.



Best Practices

Use `_Ext` in the entity field name

Notice that the name of the typelist has an `_Ext` suffix. For new typelists, Guidewire recommends that the name of the typelist should end with `_Ext` (or start with `Ext_`). This is to prevent potential conflicts during the upgrade to the next version of the Guidewire application.

4.4.1 Verification



Activity

Verify the work you have done

As a configuration developer, you want to be able to properly deploy new and changed data model resources.

1. Restart the server to deploy the changes

- a) During server restart Studio first runs the code generators, then compiles the project and finally deploys the resources

2. Regenerate the Data Dictionary

- a) Follow the steps to regenerate the Data Dictionary

3. Open the Data Dictionary

- a) In Windows Explorer, navigate to the data dictionary.
- b) Open the data dictionary using your preferred browser.
- 4. **Verify the InteractionReason_Ext and ChannelType_Ext typelists**
- 5. **Verify the new typelist reference in the Interaction_Ext entity**



4.5 Lab Solution: Create new typelists



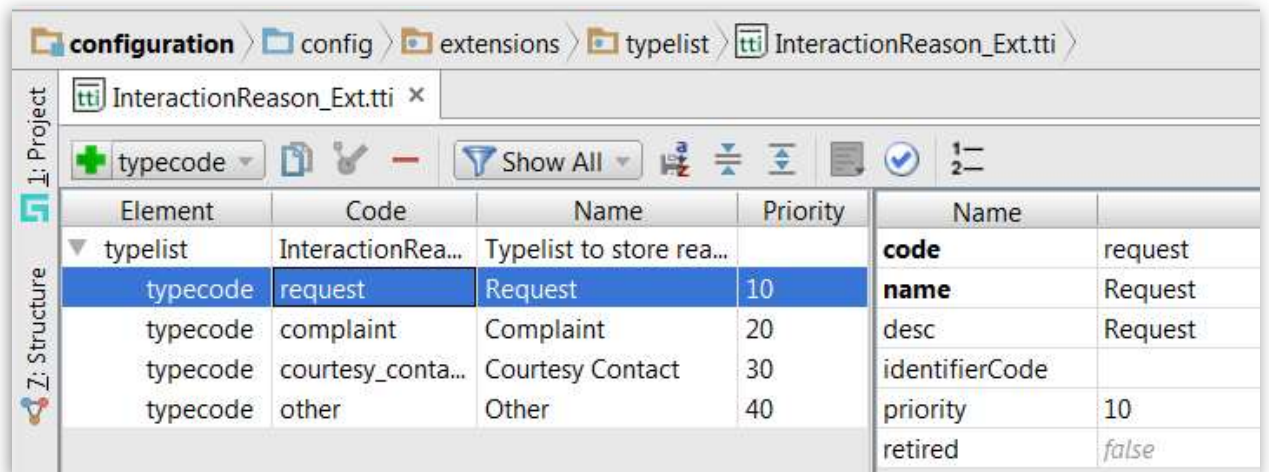
Solution

Exact details on how to complete the lab.

1. **Create the new InteractionReason_Ext typelist**

A screenshot of a software dialog box titled "Typelist". It has a standard Windows-style title bar with a close button (X) in the top right corner. The dialog contains two text input fields. The first field is labeled "Name" and contains the text "InteractionReason_Ext". The second field is labeled "Desc" and contains the text "Typelist to store reasons for contact interactions". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

2. Add the typecodes



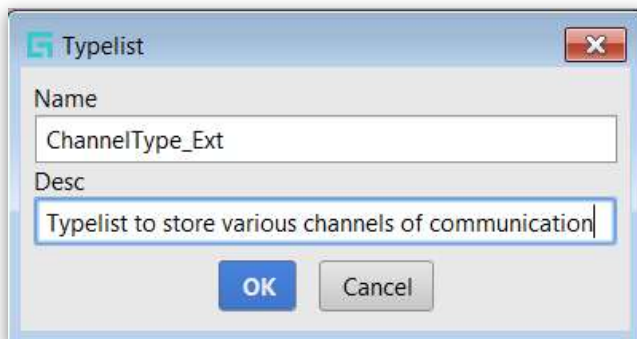
The screenshot shows the configuration window for `InteractionReason_Ext.tti`. The breadcrumb path is `configuration > config > extensions > typelist > InteractionReason_Ext.tti`. The window title is `InteractionReason_Ext.tti`. The toolbar includes a `+ typecode` button, a `Show All` filter, and various view controls. The main table displays the typelist structure:

Element	Code	Name	Priority
▼ typelist	InteractionRea...	Typelist to store rea...	
typecode	request	Request	10
typecode	complaint	Complaint	20
typecode	courtesy_conta...	Courtesy Contact	30
typecode	other	Other	40

On the right, a detailed view of the selected `request` typecode is shown:

Name	
code	request
name	Request
desc	Request
identifierCode	
priority	10
retired	false

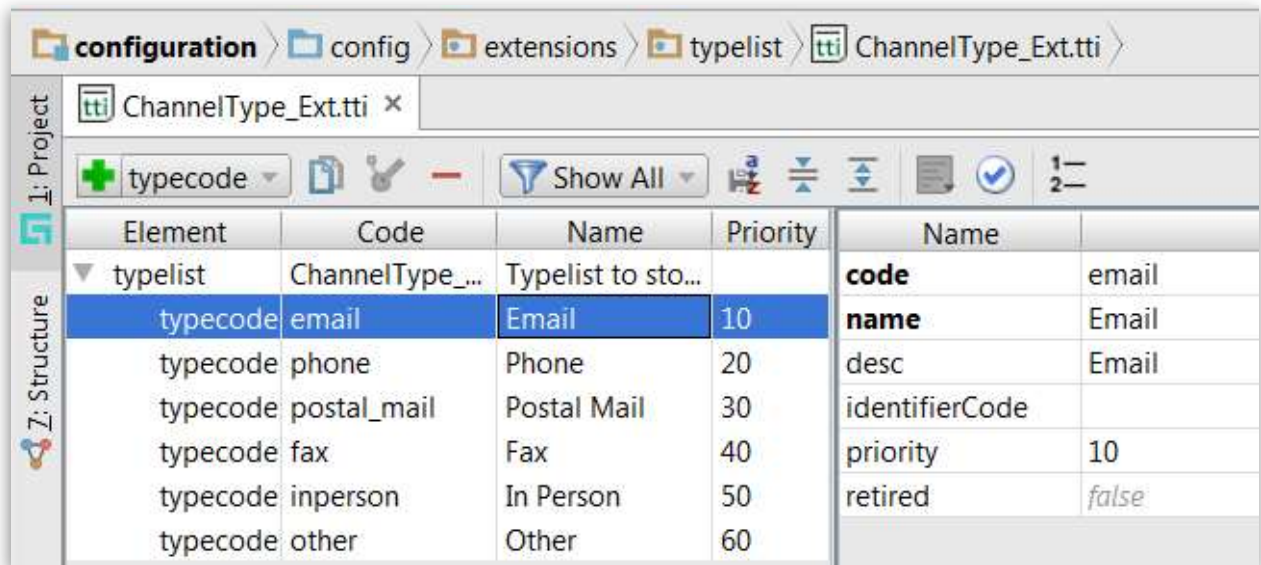
3. Create the new ChannelType_Ext typelist



The screenshot shows the `Typelist` dialog box. The `Name` field contains `ChannelType_Ext` and the `Desc` field contains `Typelist to store various channels of communication`. The `OK` button is highlighted.

Field	Value
Name	ChannelType_Ext
Desc	Typelist to store various channels of communication

4. Add typecodes



The screenshot shows the SAP configuration tool interface for the 'ChannelType_Ext.tti' configuration. The breadcrumb navigation at the top indicates the path: configuration > config > extensions > typelist > ChannelType_Ext.tti. The left sidebar shows the project structure with '1: Project' and 'Z: Structure' views. The main area displays a table of typecodes under the 'typelist' element. The 'email' typecode is selected, and its details are shown on the right.

Element	Code	Name	Priority
typelist	ChannelType_...	Typelist to sto...	
typecode	email	Email	10
typecode	phone	Phone	20
typecode	postal_mail	Postal Mail	30
typecode	fax	Fax	40
typecode	inperson	In Person	50
typecode	other	Other	60

Name	
code	email
name	Email
desc	Email
identifierCode	
priority	10
retired	false

4.6 Lab Solution: Add typekey fields to an entity



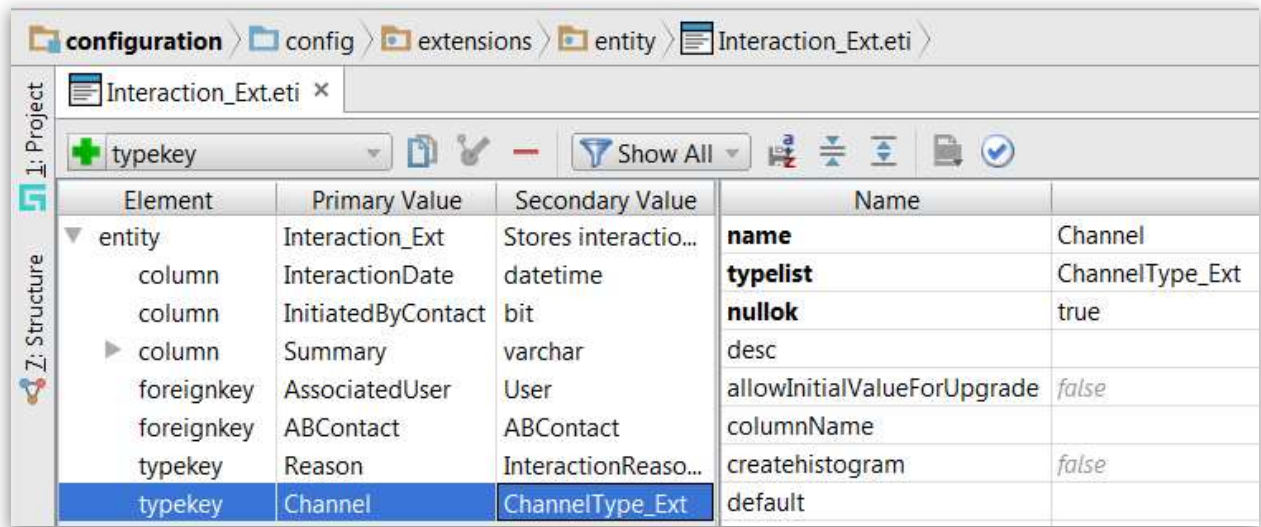
Solution

Exact details on how to complete the lab.

1. Open Interaction_Ext.eti
2. Add a typekey field that uses the new InteractionReason_Ext typelist

configuration > config > extensions > entity > Interaction_Ext.eti				
Interaction_Ext.eti x				
+ typekey Show All				
Element	Primary Value	Secondary Value	Name	
▼ entity	Interaction_Ext	Stores interactio...	name	Reason
column	InteractionDate	datetime	typelist	InteractionReason_Ext
column	InitiatedByContact	bit	nullok	true
▶ column	Summary	varchar	desc	
foreignkey	AssociatedUser	User	allowInitialValueForUpgrade	false
foreignkey	ABContact	ABContact	columnName	
typekey	Reason	InteractionReaso...	createhistogram	false

3. Add a typekey field that uses the new ChannelType_Ext typelist



configuration > config > extensions > entity > Interaction_Ext.eti >				
Interaction_Ext.eti x				
+ typekey [Icons] Show All [Icons]				
Element	Primary Value	Secondary Value	Name	
▼ entity	Interaction_Ext	Stores interactio...	name	Channel
column	InteractionDate	datetime	typelist	ChannelType_Ext
column	InitiatedByContact	bit	nullok	true
▶ column	Summary	varchar	desc	
foreignkey	AssociatedUser	User	allowInitialValueForUpgrade	false
foreignkey	ABContact	ABContact	columnName	
typekey	Reason	InteractionReaso...	createhistogram	false
typekey	Channel	ChannelType_Ext	default	