Policy Center

Lesson Outline

- Data Model
- Extending Entities
- Creating Entities
- Creating Typelist
- Adding Typefilter
- Data Dictionary

Data Model

Configuration

3 Tier Architecture

- Data Tier Data Model Entity
- Presentation Tier PCF file
- Application Tier Gosu Class

Data Tier

 Data Model - set of data objects and information about their relationships

• Every Guidewire data model includes :

- Entity
- Entity Field
- Typelist

Entity

• Business objects stored in its own database table. Eg: ABContact, ABUser

ABContact

ID

Name

CreateTime

PrefersContactByEmail

Score

AssignedUser

AllAddresses

VendorType

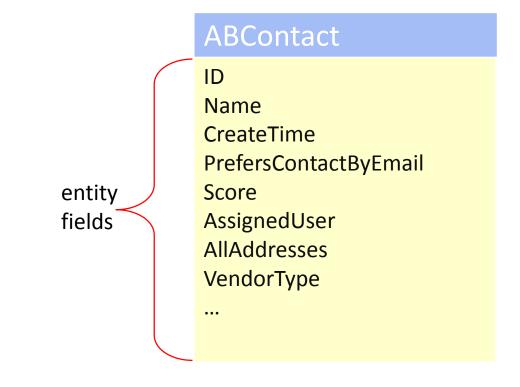
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Table - dbo.ab_abcontact*						
	ID	Name	CreateTime	PrefersContact	Score	AssignedUser
	64	United Natural Foods Inc	9/4/2009 1:51:32 PM	False	NULL	2
	65	зм	9/4/2009 1:51:32 PM	False	NULL	3
	74	Express Auto	9/4/2009 1:51:32 PM	False	81	3
	75	European Autoworks	9/4/2009 1:51:32 PM	True	NULL	4
	76	M B Garage	9/4/2009 1:51:32 PM	False	NULL	7
	77	Burlingame Saab	9/4/2009 1:51:32 PM	False	NULL	2
	78	Menlo Park Chevron	9/4/2009 1:51:32 PM	True	72	6
	79	Cupertino's Smog Pro and Auto Repair	9/4/2009 1:51:32 PM	False	NULL	2
	80	Meinecke Car Care Center	9/4/2009 1:51:32 PM	False	NULL	2
	81	Morgan Hill Auto Body	9/4/2009 1:51:32 PM	False	NULL	2
	82	Hollister Muffler and Quick Lube	9/4/2009 1:51:32 PM	True	NULL	2

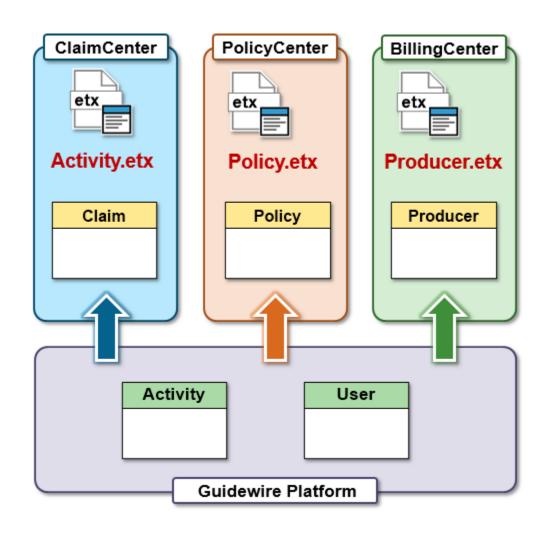
Entity Fields

 Value (or set of values) used to define the state or nature of a specific instance of the entity. Eg: ABContact's Name field

- Four general types of entity fields
 - Data key to store data
 - Foreign key to refer entity
 - Array key to refer array of entity
 - Type key to refer typelist



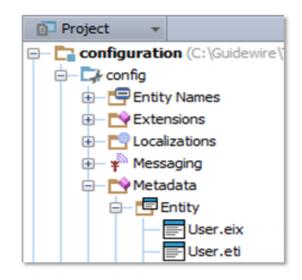
Layers of Entity



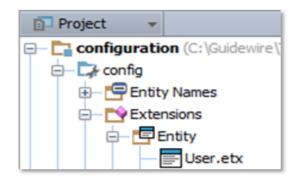
- Platform-level entities "eti" are common to all Guidewire applications
- Application-level entities "eix" are specific to given application
- Entities extensions "etx" are addons to the existing entities

Project View

...\metadata\entity\



...\extensions\entity



- Read-only files
 - Entity (ETI)
 - Internal entity extension (EIX)



- Editable files
 - Entity (ETI)
 - Entity extension (ETX)

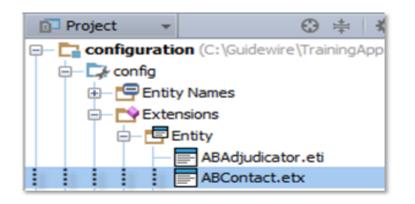


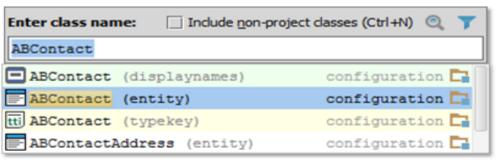
Extending Entity

Steps to edit an entity extension

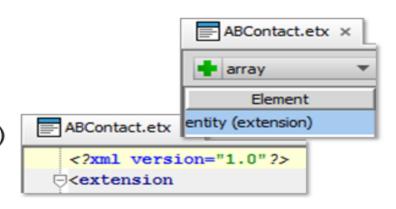
- 1. Navigate to the entity extension
- 2. Add elements and specify attribute values
- 3. Optionally regenerate the dictionary
- 4. Deploy the extension entity

Step 1: Navigate to the entity extension

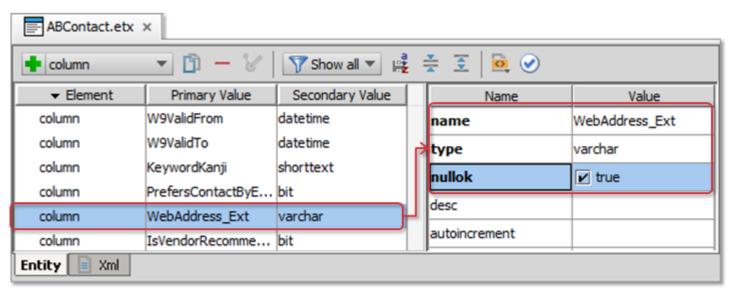




- Navigate to an entity in ...\Extensions\Entity\
 - Project View or using CTRL+N
- Verify that you have selected an entity extension file (ETX)
 - Top element reads entity (extension)
 - XML is <extension />



Step 2: Add elements and define attributes



- Toolbar to add an element for a field, e.g., <column />
- Define element attributes
 - Name is the name of the field; Use _Ext for field name ending
 - Type is the data type
 - Nullok defaults to false, so set to true in most cases

Step 3: Optionally regenerate dictionary

- gwXX regen-dictionary
- Process builds entire entity model including base and custom entities
- Identifies errors in the data model beyond Entity Editor schema validation

Step 4: Deploy the entity extension

Restart Server

Entity Extension



- bin command window
 - gwXX dev-stop
 - gwXX dev-start

Task – Extend Entity

- Create extension BACost.etx to capture the following information.
 - Currency_Ext varchar of 20 characters
 - Fees_Ext integer

Creating Entity

Steps to create a custom entity

- 1. Create the entity file
- 2. Add elements and specify attribute values
- 3. Optionally regenerate the dictionary
- 4. Deploy the custom entity

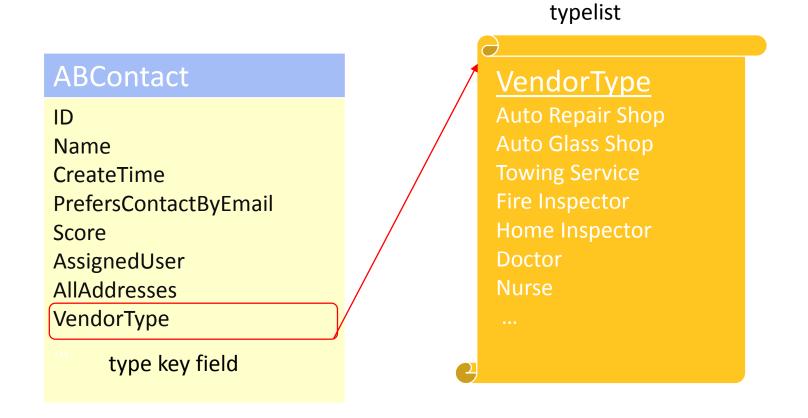
Task – Create Entity

- Create a new entity named HouseDetails_Ext.eti and add the following elements:
 - HouseNumber integer
 - HouseName varchar
 - FoundationDate dateonly
- Create a new entity named RouteDetails_Ext.eti and add following elements :
 - RoadName varchar
 - OfficeDistance integer
 - BusFare money
- Add a foreign key from PolicyPeriod to HouseDetails_Ext
- Add an array key from HouseDetails_Ext to RouteDetails_Ext

Typelist

Typelist

Predefined list of values that constrains a field



Kinds of Typelist

Internal

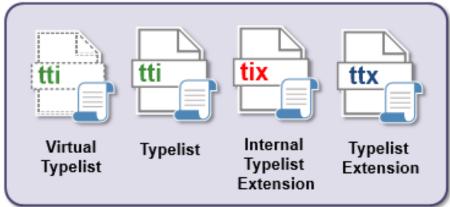
- Internal base application logic
- Cannot modify or extend
- Read-only

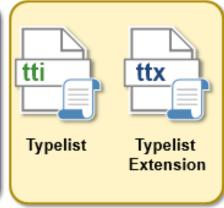
Extendable

- Base application
- Can modify typelist or typelist extension

Custom

 Customer creates as part of custom configuration

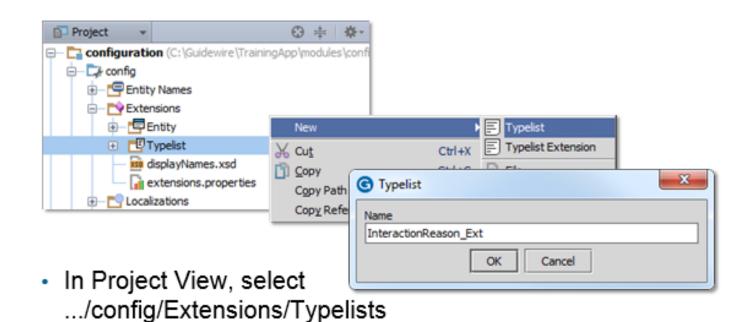




Steps to create a typelist

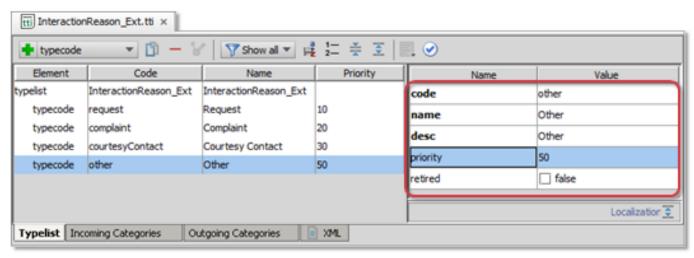
- 1. Create the typelist file
- 2. Define typecodes
- 3. Optionally regenerate the dictionary
- 4. Deploy the typelist

Step 1: Create the typelist file



- Context menu → New → Typelist
- Typelist dialog
 - Naming convention is for custom typelists to end in _Ext
 - Example: InteractionReason_Ext

Step 2: Define typecodes



- Add new typecodes with toolbar or context menu and define typecode attributes in the Name Value pane
 - Code is internal reference, must be unique within typelist, <=50 characters and contain alphanumeric values
 - Name is the default for when displayed in the user interface and Desc for the data dictionary
 - Priority is the sort order

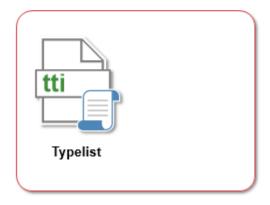
Step 3: Optionally regenerate dictionary

- gwXX regen-dictionary
- Process builds entire entity model including base and custom typelists
- Identifies errors in the data model beyond Typelist Editor schema validation

Step 4: Deploy the typelist

Restart Server

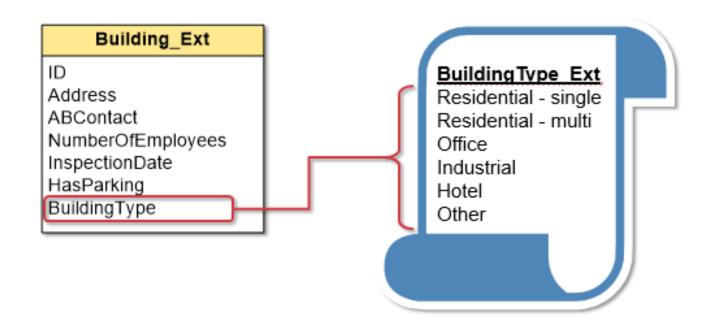
Typelist



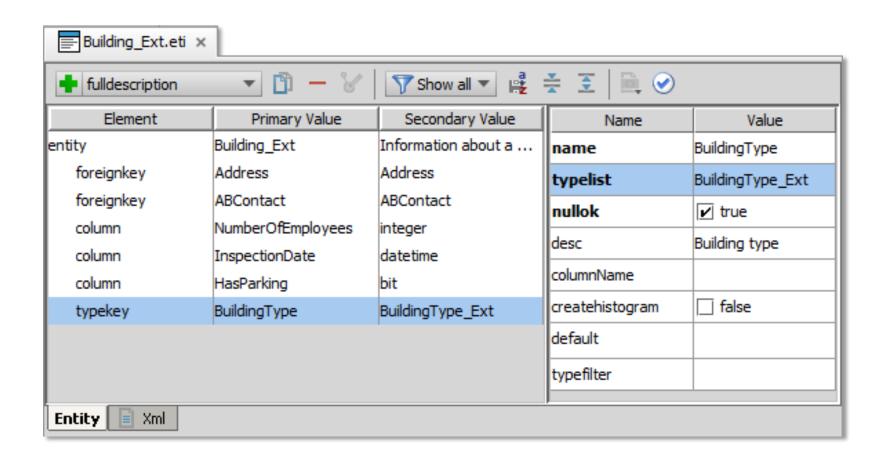
- bin command window
 - gwXX dev-stop
 - gwXX dev-start

Defining Typekey fields

- A typekey field is an entity defined field associated with a specific typelist
- Referenced typelist contains typecodes whose values are the only possible value for the typekey field



Entity configuration: typekey



Task – Create Typelist

Create a typelist Occupation_Ext.tti and add the following codes:

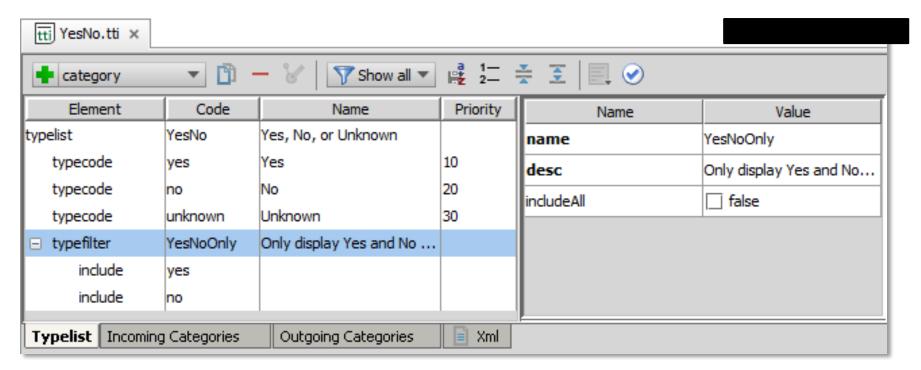
- Doctor
- Nurse
- Lawyer
- Police

Add a typekey in HouseDetails_Ext to refer this typelist

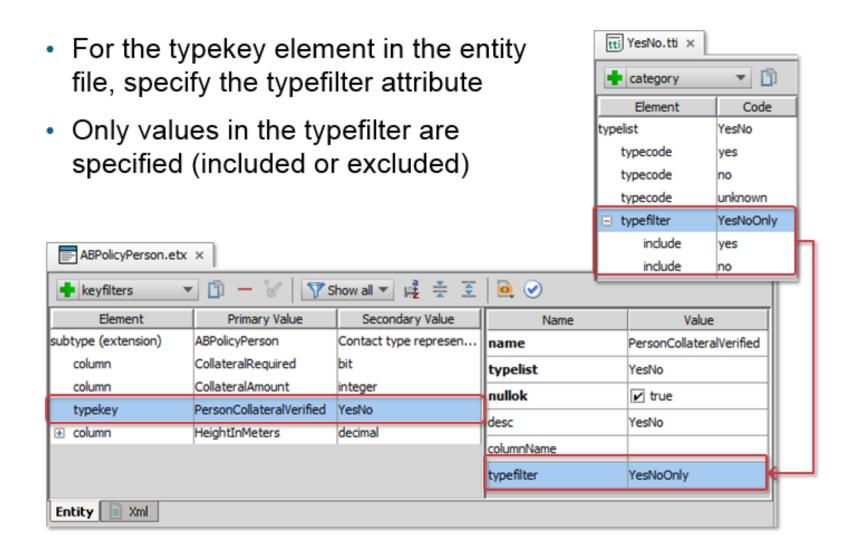
Type Filter

Typelist filters

- A typelist filter defines a subset of typecodes in the typelist
- Configure filters for typelists to filter available typecodes
- Example: YesNoOnly typefilter



Referencing a typelist filter



Task – Create Type Filter

- Create typefilter to display occupation related to Hospital
- Refer the typefilter in HouseDetails_Ext

Data Dictionary

Data Dictionary

Documents the entities and typelists in the application

<install directory>\build\dictionary\data\index.html
Eg: C:\PolicyCenter\build\dictionary\data\index.html

 To regenerate dictionary, from bin directory, execute: gwXX regen-dictionary

Summary

- Data Modal
 - Entity eti , eix , etx
 - Entity Fields define the state or nature of a specific instance of the entity
 - Typelists tti , tix , ttx
- Extending and Creating Entities
 - Datakey eg.HouseName
 - Arraykey eg. RouteDetails
 - Foreignkey eg. HouseDetails
- Typelist and Typefilters
 - Typekey eg. Occupation
 - TypeFilter eg. Hospital
- Data Dictionary Documents the entities and typelists in the application
 - gwXX regen-dictionary

Thank You