

# EXTENDED DEMOGRAPHY

## AMXEDITOR – PLUGIN

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Author : Luis Amesty Linares  
Madrid, Spain August 2015  
[luisamesty@gmail.com](mailto:luisamesty@gmail.com)

## 1. Introduction.

This Plugin is related to Demographic Aspects on Idempiere ERP. It is well known that on some countries there is a political division with concepts that go beyond country, region and city.

For example in Spain we talk about Communities, they are related to Group of Provinces that keeps Local Government. They also have a political division for Provinces called Municipalities (Municipality-*Municipio*).

Another example is Venezuela, they have a political division for Provinces (*Estados*) called Municipalities (Municipality-*Municipio*) and a Municipality is also divided on Parishes (Parish-*Parroquia*). Particularity Main Mail office in Venezuela has published a new rule indicating the way postal address is to be written:

**La dirección postal ahora se escribe así:**

NOMBRE Y APELLIDO	
DEPARTAMENTO / CARGO	Cuando la correspondencia va dirigida a una empresa colocar: nombre de la unidad administrativa (gerencia, división, departamento, sección) o a cargo de la persona a quien va dirigido el envío.
LOCALIDAD	Sector, Avenida, calle, carrera, vereda, aldea, barrio, callejón, pasaje, asentamiento, caserio, finca, urbanización, esplanada, esquina, ciudadela, hacienda, parque residencial, residencias, entre otros.
INMUEBLE	Nombre o número, edificio, bloque, casa, quinta, piso, torre, apartamento, oficina, local, consultorio, entre otros.
PARROQUIA	
MUNICIPIO	
CIUDAD O PUEBLO	
ESTADO	
PAÍS	Si la correspondencia es internacional.
ZONA POSTAL	Vigente en Venezuela.

Postal Codes is another concern to be covered in future on this plugin, because a default value can be obtained from Region, Provinces, Municipality and Parish. Also Street Names provides a rule for finding zip codes.

In order to accomplish what have been explained before, some tables have to be modified, and some others tables have to be added to implement the new Window and plugin.

Tables	
Modify	Add
<i>C_Country</i> (2)	<i>C_Municipality</i>
<i>AD_Message</i> (1)	<i>C_Parish</i>
<i>C_Location</i> (2)	<i>C_Zipcode</i>
<i>C_Region</i> (2)	<i>C_Community</i>
<i>AD_Reference</i> (1)	

(1) Add New Records (2) Add New Fields

I have been working with Idempiere since version 1.0c, before I made some test on Adempiere 3.70. Right now I am migrating my old Visual FoxPro application with one of my customer using Idempiere 2.0 in VENEZUELA.

A list of Lectures and References related with this Material. Some information, procedures, code and data taken from:

Wiki Page: **Developing plug-ins without affecting the trunk**  
[http://wiki.idempiere.org/en/Developing\\_plugin\\_without\\_affecting\\_the\\_trunk](http://wiki.idempiere.org/en/Developing_plugin_without_affecting_the_trunk)  
Jan Thielemann Videos in special:  
Developing iDempiere 2.0 - Custom Editors (IEditorFactory and IDisplayTypeFactory)  
<https://www.youtube.com/watch?v=jVhKnFzsMZo>  
DCS-ERP Repository from Orlando Curieles.  
[https://bitbucket.org/dcs\\_bitbucket/](https://bitbucket.org/dcs_bitbucket/)  
Initial Venezuelan Demography.  
Redhuan Daniel Oon (red1) Repository.  
<https://bitbucket.org/red1/>  
Ghintech Location.  
<https://bitbucket.org/ghintech/com.ghintech.location>  
Carlos Ruiz (CarlosRuiz\_globalqss)  
[https://bitbucket.org/CarlosRuiz\\_globalqss/](https://bitbucket.org/CarlosRuiz_globalqss/)

Plugin Source code, documentation and jar files are located on Bitbucket repository:  
<https://bitbucket.org/luisamesty/extendeddemography>

You may clone it with mercurial:

\$ hg clone <https://luisamesty@bitbucket.org/luisamesty/extendeddemography>

I really appreciate all material, readings and information provided by forum, wiki pages and repositories. This is my first little contribution to the group and I hope it will be useful to you.

## 2. AD\_Reference Table.

**AD\_Reference** Table, it is an Application Dictionary's Table that contains all Small List arrays associated with fields, where it is necessary to select from Short Length selection List. It is used instead of a Table. Normally Tables are used when Selection contains Large List Counts of records.

When defining Tables on Application Dictionary, *AD\_Reference* table is used for selection of Field Type on Table's Columns. For example, we can see records among others:

Name	Description
....	....
Image	Binary Image Data
Integer	10 Digit numeric
List	Reference List
Location (Address)	Location/Address
<a href="#">LocationExtended</a>	<a href="#">Location Extended /Address with Parish and Municipality</a>

Location Reference Type is related with Address Fields, normally associated with *C\_Location* table records thru *C\_Location\_ID* field. This reference selects the type of editor associated with the Table's Field on AD Model. For example:

Integer: is associated with a plain integer number editor.

Date: is associated with a Date Format (MM/DD/YYYY) editor.

Location: is associated with Address Location Field (see Figure 2.1)

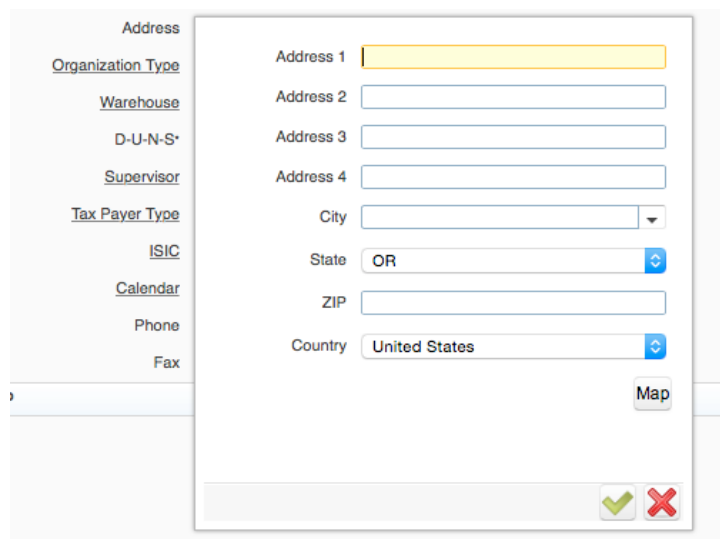
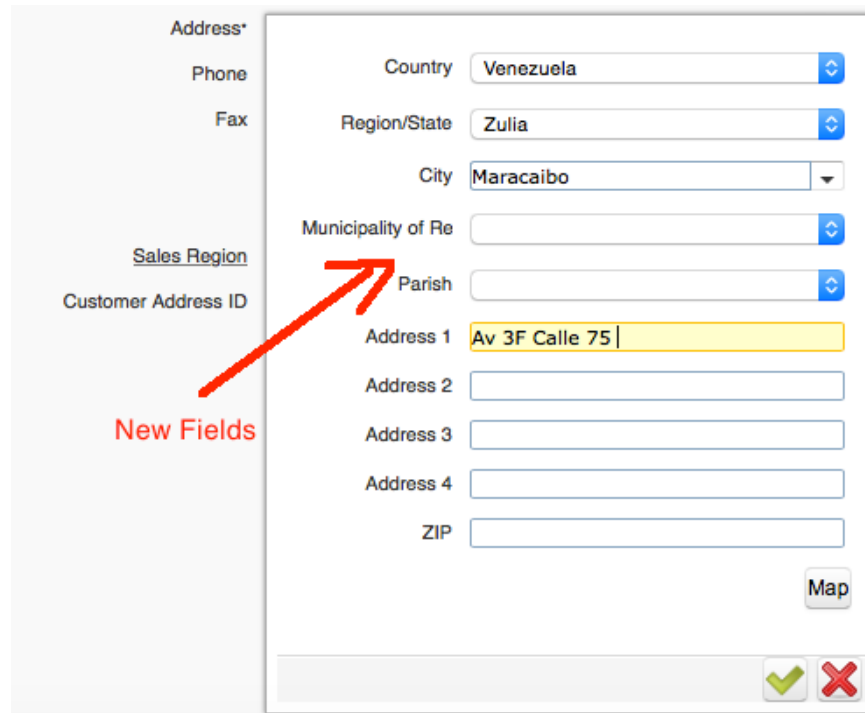


Figure 2.1

***LocationExtended*** Is the name of the new reference to be added to Application Dictionary in order to run Plugin. It must to be defined exactly with this name, because plugin code will find on *AD\_Reference* table as it.

When Plugin be completed and running, it can be associated The *C\_Location\_ID* field on *C\_BPartnerLocation* Table to a *LocationExtended* reference, the address form will be presented as figure 2.2:

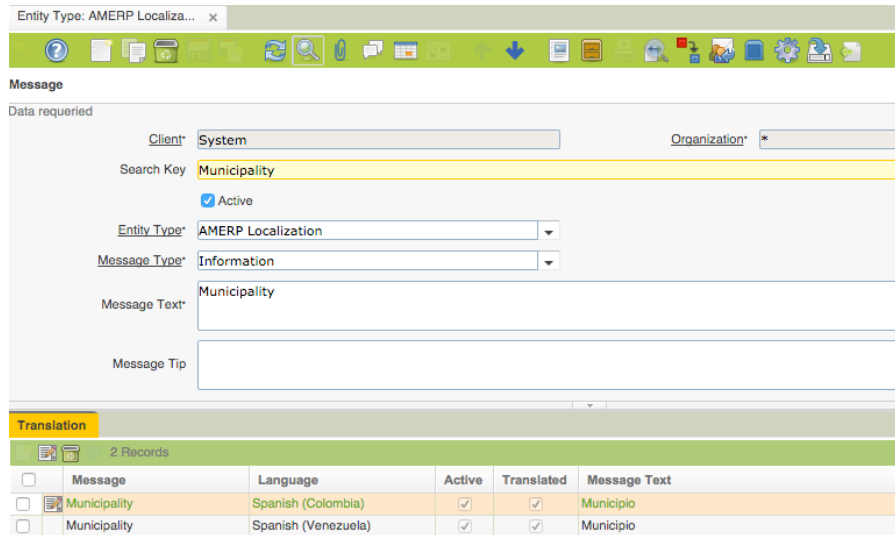


The screenshot shows a web-based address form. On the left, there are labels for 'Address\*', 'Phone', 'Fax', 'Sales Region', and 'Customer Address ID'. The main form area contains the following fields: 'Country' (dropdown menu showing 'Venezuela'), 'Region/State' (dropdown menu showing 'Zulia'), 'City' (dropdown menu showing 'Maracaibo'), 'Municipality of Re' (dropdown menu), 'Parish' (dropdown menu), 'Address 1' (text input field containing 'Av 3F Calle 75'), 'Address 2' (text input field), 'Address 3' (text input field), 'Address 4' (text input field), and 'ZIP' (text input field). A red arrow points from the text 'New Fields' to the 'Parish' field. At the bottom right of the form, there is a 'Map' button and two icons: a green checkmark and a red X.

Figure 2.2

## 3. New Messages on AD\_Message Table.

New Messages translations are required to be presented on Plugin Forms. Add new messages Community, Municipality, Parish and Zipcode, and their respective translation to your Localization Language. It must be done using AD window Message: (See examples)



Entity Type: AMERP Localiza... x

**Message**

Data requested

Client\* System Organization\* \*

Search Key Municipality

☒ Active

Entity Type\* AMERP Localization

Message Type\* Information

Message Text\* Municipality

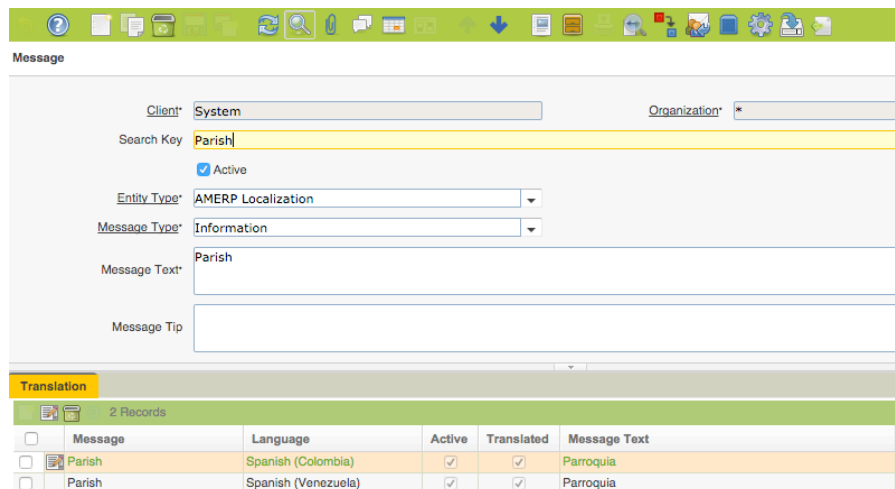
Message Tip

**Translation**

2 Records

	Message	Language	Active	Translated	Message Text
<input type="checkbox"/>	Municipality	Spanish (Colombia)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Municipio
<input type="checkbox"/>	Municipality	Spanish (Venezuela)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Municipio

Figure 3.1



Entity Type: AMERP Localiza... x

**Message**

Data requested

Client\* System Organization\* \*

Search Key Parish

☒ Active

Entity Type\* AMERP Localization

Message Type\* Information

Message Text\* Parish

Message Tip

**Translation**

2 Records

	Message	Language	Active	Translated	Message Text
<input type="checkbox"/>	Parish	Spanish (Colombia)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Parroquia
<input type="checkbox"/>	Parish	Spanish (Venezuela)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Parroquia

Figure 3.2

## 4. Fields Added on C\_Country Table.

C\_Country table contains Records for Countries. Some fields have been added to this table, and they have to be done using Application Dictionary. The fields added are:

System Element	DB Column Name	Description
CountryCode3 (*)	CountryCode3	Country Code 3 Digits Standard
HasCommunity	HasCommunity	Country is divided in Communities Y-N
HasMunicipality	HasMunicipality	Country Regions are divided in Municipalities Y-N
HasParish	HasParish	Country Regions are divided in Municipalities and Parish Y-N

In some Countries the appropriate translation for Region differs, for example:

Colombia: *Departamento*.

Venezuela: *Estado*.

USA: *Estado*.

España: *Provincia*.

Take note for this, when create Field Elements and their translation:

(\*) For CountryCode3 inclusion, see Script 'amxeditor.sql', included on Sources.

## 5. Capture Sequence on Table C\_Country.

Capture Sequence indicates the order on which Address Fields are presented to the user when creating or modifying address fields (Location or LocationExtended).

Tokens are surrounded by @ character.

For example:

@CO@ @R@ @C@ @A1@ @A2@ @A3@ @A4@ @P@

Available Tokens:

CO: Country

R: Region

C: City

A1, A2, A3, A4: Four Address Lines.

P: Postal Code

Added Tokens to Plugin:

MU: Municipality

PA: Parish

Idempiere Administrator could change this Value in order to modify the Form's Field Sequence on Window's Address Fields.

Recommended sequence:

@CO@ @A1@ @A2@ @A3@ @A4@ @P@ @R@ @C@ @MU@ @PA@



## 6. New Table C\_Community

**C\_Community** Table contains the Community Political Territorial Division of The Country. As it will be used for Key reference on *C\_Region* table, at least one record for each Country must be created. A SQL file is provided (See amxeditor.sql).

Create Table using PostgreSQL pgAdmin3 app, with this Script:

```
/* CREATE TABLE c_community (COUNTRY'S COMMUNITIES) */
CREATE TABLE "adempiere"."c_community" (
  "c_community_id" NUMERIC(10,0) NOT NULL,
  "ad_client_id" NUMERIC(10,0) NOT NULL,
  "ad_org_id" NUMERIC(10,0) NOT NULL,
  "isactive" CHAR(1) DEFAULT 'Y'::bpchar NOT NULL,
  "created" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,
  "createdby" NUMERIC(10,0) NOT NULL,
  "updated" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,
  "updatedby" NUMERIC(10,0) NOT NULL,
  "name" VARCHAR(60) NOT NULL,
  "description" VARCHAR(255),
  "c_country_id" NUMERIC(10,0) NOT NULL,
  "isdefault" CHAR(1) DEFAULT 'N'::bpchar,
  CONSTRAINT "c_community_pkey" PRIMARY KEY("c_community_id"),
  CONSTRAINT "c_community_isactive_check" CHECK (isactive = ANY (ARRAY['Y'::bpchar, 'N'::bpchar])),
  CONSTRAINT "c_community_isdefault_check" CHECK (isdefault = ANY (ARRAY['Y'::bpchar, 'N'::bpchar])),
  CONSTRAINT "c_communityclient" FOREIGN KEY ("ad_client_id")
    REFERENCES "adempiere"."ad_client"("ad_client_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED,
  CONSTRAINT "c_communityorg" FOREIGN KEY ("ad_org_id")
    REFERENCES "adempiere"."ad_org"("ad_org_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED,
  CONSTRAINT "ccountry_cregion" FOREIGN KEY ("c_country_id")
    REFERENCES "adempiere"."c_country"("c_country_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED
) WITHOUT OIDS;
```

See Application Dictionary Window for Table C\_Community:

Table > Column ▼

<input type="checkbox"/>	Table	DB Column Name	Reference	Reference Key	Length	Mandatory	Updatable
<input type="checkbox"/>	C_Community_Community	AD_Client_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	AD_Org_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	C_Community_ID	ID		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	C_Community_UU	String		36	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	C_Country_ID	Table	C_Country	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	Created	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	CreatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	Description	String		255	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	IsActive	Yes-No		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	IsDefault	Yes-No		1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	Name	String		60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	Updated	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	C_Community_Community	UpdatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>

See Script 'amxeditor.sql', included on Sources.

## 7. New Tables C\_Municipality and C\_Parish

Some countries divide Region on Municipality entities.  
This is the Script for create the table.

```
--- C_Municipality TABLE (c_municipality)
CREATE TABLE "adempiere"."c_municipality" (
  "c_municipality_id" NUMERIC(10,0) NOT NULL,
  "ad_client_id" NUMERIC(10,0) NOT NULL,
  "ad_org_id" NUMERIC(10,0) NOT NULL,
  "isactive" CHAR(1) DEFAULT 'Y'::bpchar NOT NULL,
  "created" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,
  "createdby" NUMERIC(10,0) NOT NULL,
  "updated" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,
  "updatedby" NUMERIC(10,0) NOT NULL,
  "name" VARCHAR(60) NOT NULL,
  "capital" VARCHAR(60) NOT NULL,
  "c_country_id" NUMERIC(10,0),
  "c_region_id" NUMERIC(10,0),
  "isdefault" CHAR(1) DEFAULT 'Y'::bpchar,
  CONSTRAINT "c_municipality_pkey" PRIMARY KEY("c_municipality_id"),
  CONSTRAINT "c_municipality_isactive_check" CHECK (isactive = ANY (ARRAY['Y'::bpchar, 'N'::bpchar])),
  CONSTRAINT "c_municipalityclient" FOREIGN KEY ("ad_client_id")
    REFERENCES "adempiere"."ad_client"("ad_client_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED,
  CONSTRAINT "c_municipalityorg" FOREIGN KEY ("ad_org_id")
    REFERENCES "adempiere"."ad_org"("ad_org_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED,
  CONSTRAINT "ccountry_cmunicipality" FOREIGN KEY ("c_country_id")
    REFERENCES "adempiere"."c_country"("c_country_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED,
  CONSTRAINT "cregion_cmunicipality" FOREIGN KEY ("c_region_id")
    REFERENCES "adempiere"."c_region"("c_region_id")
    ON DELETE NO ACTION
    ON UPDATE NO ACTION
    DEFERRABLE
    INITIALLY DEFERRED
) WITHOUT OIDS;
```

Note:

PRIMARY KEY for C\_Municipality Table is c\_municipality\_id.

Some countries also, divide Municipality on Parish entities.

This is the Script for create the table.

```
CREATE TABLE "adempiere"."c_parish" (  
  "c_parish_id" NUMERIC(10,0) NOT NULL,  
  "ad_client_id" NUMERIC(10,0) NOT NULL,  
  "ad_org_id" NUMERIC(10,0) NOT NULL,  
  "isactive" CHAR(1) DEFAULT 'Y'::bpchar NOT NULL,  
  "created" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,  
  "createdby" NUMERIC(10,0) NOT NULL,  
  "updated" TIMESTAMP WITHOUT TIME ZONE DEFAULT now() NOT NULL,  
  "updatedby" NUMERIC(10,0) NOT NULL,  
  "name" VARCHAR(60) NOT NULL,  
  "c_country_id" NUMERIC(10,0) NOT NULL,  
  "c_region_id" NUMERIC(10,0) NOT NULL,  
  "c_municipality_id" NUMERIC(10,0) NOT NULL,  
  "isdefault" CHAR(1) DEFAULT 'N'::bpchar,  
  CONSTRAINT "c_parish_pkey" PRIMARY KEY("c_parish_id"),  
  CONSTRAINT "c_parish_isactive_check" CHECK (isactive = ANY (ARRAY['Y'::bpchar, 'N'::bpchar])),  
  CONSTRAINT "c_parishclient" FOREIGN KEY ("ad_client_id")  
    REFERENCES "adempiere"."ad_client"("ad_client_id")  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
    DEFERRABLE  
    INITIALLY DEFERRED,  
  CONSTRAINT "c_parishorg" FOREIGN KEY ("ad_org_id")  
    REFERENCES "adempiere"."ad_org"("ad_org_id")  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
    DEFERRABLE  
    INITIALLY DEFERRED,  
  CONSTRAINT "ccountry_cparish" FOREIGN KEY ("c_country_id")  
    REFERENCES "adempiere"."c_country"("c_country_id")  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
    DEFERRABLE  
    INITIALLY DEFERRED,  
  CONSTRAINT "cmunicipality_cparish" FOREIGN KEY ("c_municipality_id")  
    REFERENCES "adempiere"."c_municipality"("c_municipality_id")  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
    DEFERRABLE  
    INITIALLY DEFERRED,  
  CONSTRAINT "cregion_cparish" FOREIGN KEY ("c_region_id")  
    REFERENCES "adempiere"."c_region"("c_region_id")  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
    DEFERRABLE  
    INITIALLY DEFERRED  
) WITHOUT OIDS;
```

Note:

PRIMARY KEY for C\_Parish Table is c\_parish\_id.

Finally take care of Adequate Name and Description on AD using Upper and Lower Cases on AD Tables.

C\_Municipality Table looks like this on AD:

[Table](#) > [Column](#)▼

<input type="checkbox"/>	Table	DB Column Name	Reference	Reference Key	Length	Mandatory	Updatable	
<input checked="" type="checkbox"/>	C_Municipality_C_Municipality	AD_Client_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	AD_Org_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	C_Country_ID	Table	C_Country	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	C_Municipality_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	C_Municipality_UU	String		36	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	C_Region_ID	Table	C_Region	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	Created	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	CreatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	IsActive	Yes-No		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	IsDefault	Yes-No		1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	Name	String		60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	Updated	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	UpdatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Municipality_C_Municipality	capital	String		60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

C\_Parish Table looks like this on AD:

[Table](#) > [Column](#)▼

<input type="checkbox"/>	Table	DB Column Name	Reference	Reference Key	Length	Mandatory	Updatable	S
<input checked="" type="checkbox"/>	C_Parish_C_Parish	AD_Client_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	AD_Org_ID	Table Direct		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	C_Country_ID	Table	C_Country	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	C_Municipality_ID	Table		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	C_Parish_ID	ID		10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	C_Parish_UU	String		36	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	C_Region_ID	Table	C_Region	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	Created	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	CreatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	IsActive	Yes-No		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	IsDefault	Yes-No		1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	Name	String		60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	Updated	Date+Time		29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	C_Parish_C_Parish	UpdatedBy	Table	AD_User	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## 8. Fields Added on C\_Region Table.

The table *C\_Region* is the second level on demographic structure. On this new proposal *C\_Community* is the New second level, nevertheless in order to be compatible with Standard Address structure on Idempiere, Community and Region are both Second Level, but on *C\_Region* table a Community ID has to be indicated if Idempiere Administrator desire to use it.

See Figure 8.1 For the New Demographic Structure of Plugin:

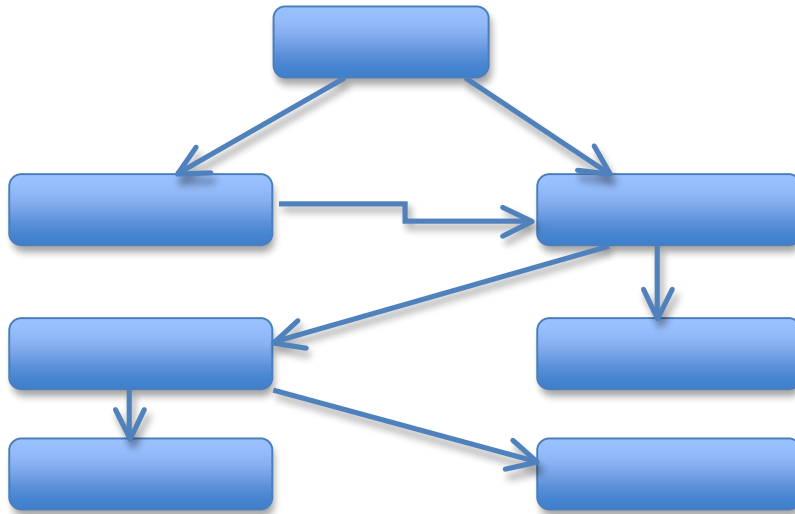


Figure 8.1  
(\*) Future Development

A new Field (*C\_Community\_ID*) is added to *C\_Region* Table. This Field Accept Null values, because some country may not use this feature. See Figure 8.2.

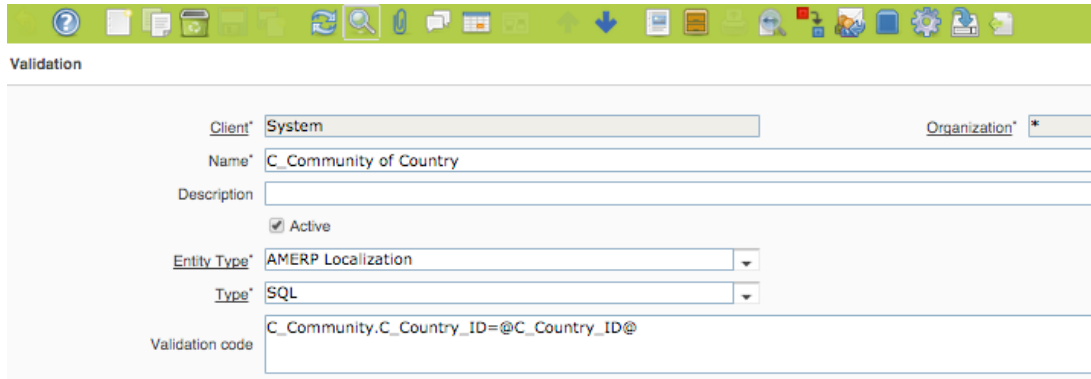
Table > Column

Record saved

Client*	System	Organization*	*
Table*	C_Region_Region	Entity Type*	AMERP Localization
System Element*	C_Community_ID	Column SQL	
DB Column Name*	C_Community_ID		
Name*	Community		
Description			
Comment/Help			
<input checked="" type="checkbox"/> Active	Version*	0.00	
Length	10	Dynamic Validation	C_Community of Country
Reference*	Table Direct	Constraint Type	
Constraint Name	community_region_fk		
Default Logic			
<input type="checkbox"/> Key column	<input type="checkbox"/> Parent link column	<input type="button" value="Synchronize Column"/>	
<input type="checkbox"/> Mandatory	<input checked="" type="checkbox"/> Always Updatable		

Figure 8.2

A new Validation Rule is created in order to accept only Communities from selected Country. See figure 8.3.



Validation

Client*	System	Organization*	*
Name*	C_Community of Country		
Description			
	<input checked="" type="checkbox"/> Active		
Entity Type*	AMERP Localization		
Type*	SQL		
Validation code	C_Community.C_Country_ID=@C_Country_ID@		

Figure 8.3

## 9. Fields Added on C\_Location.

*C\_Location* Table contains the all addresses included on Business Partners, Employees, Warehouses, Organization Info, and any other table containing **Location** or **LocationExtended** Reference Fields.

New fields added are *C\_Municipality\_ID* and *C\_Parish\_ID*, both have been mentioned before. See Figures 9.1 and 9.2 for AD window on Table *C\_Location*.

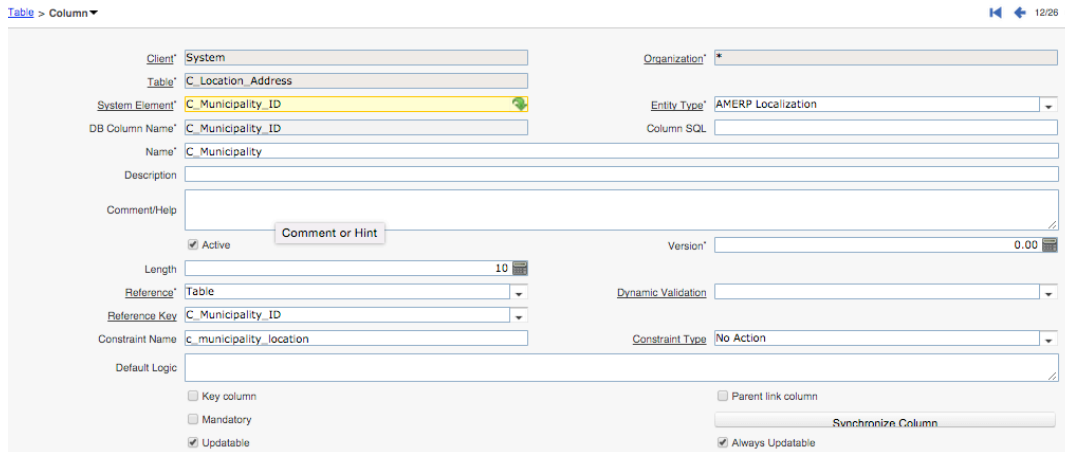


Figure 9.1.

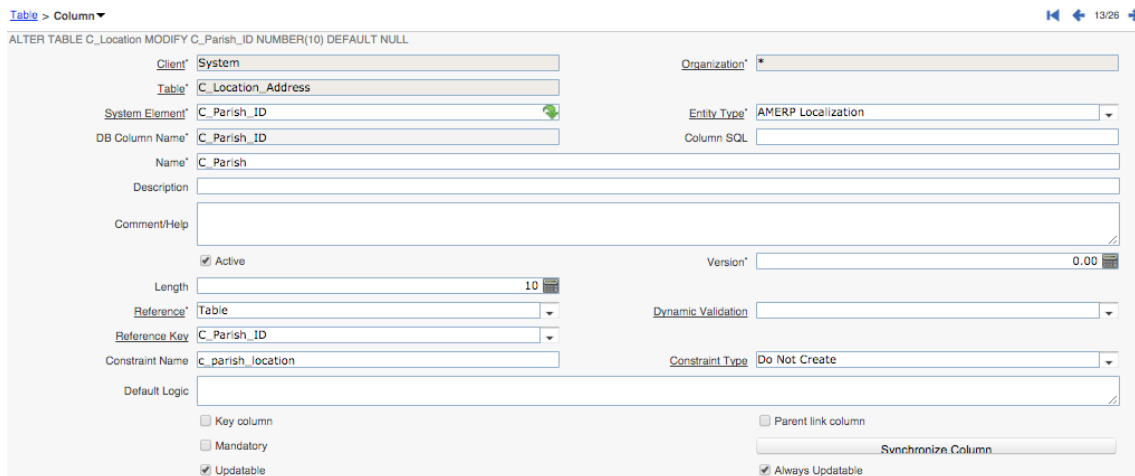


Figure 9.2

Both Fields may contain Null values in order to be compatible with Idempiere Address Standard.

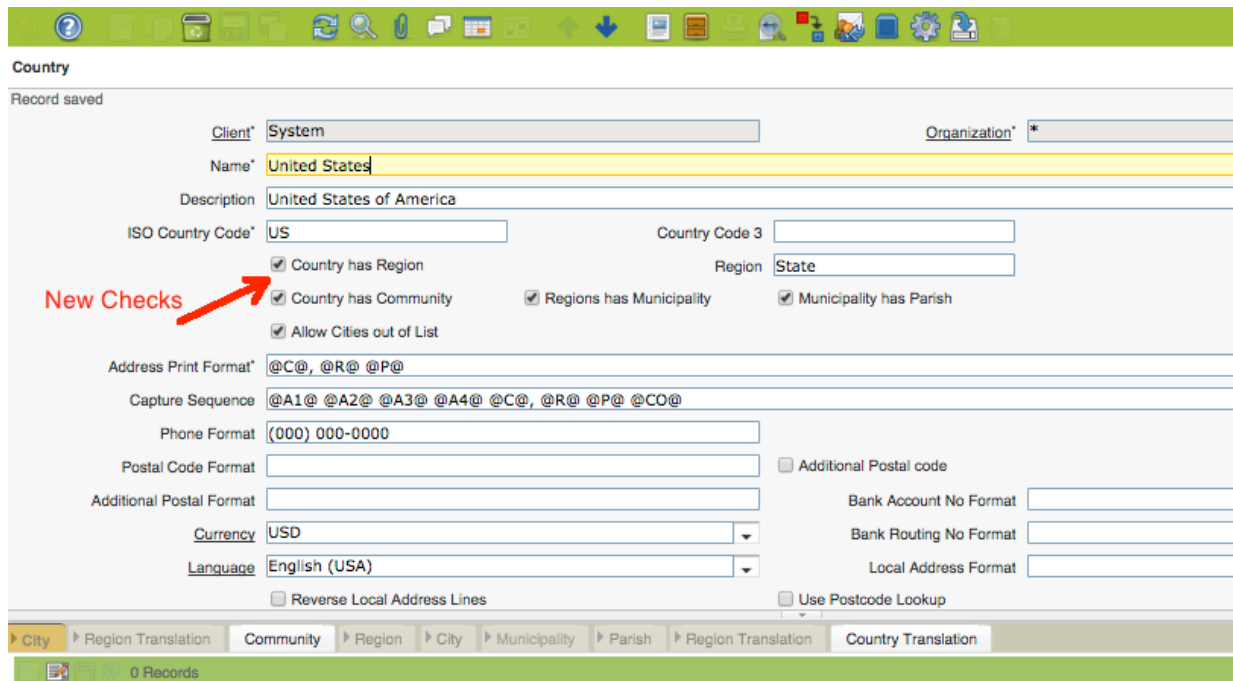
Field *C\_City\_ID* may contain Null Value, because some Country can be configured with 'Allow Cities out of List' feaure. A City String Field is Provided for Storing values when this happens.



## 10. Country-Community-Region-Municipality-Parish Window.

Finally a New Window is created to perform extended address and Demographic Structure for the Countries. It has tried to develop the window so that it can be used as Standard Country-Region-City one. But also the Idempiere Administrator can perform the construction of new Communities, Municipalities and Parishes.

It is shown below the main Window, and will explain some fields that has to be set for Country in order to perform adequate update of actual Demography Structure.



**Country**

Record saved

Client\* System Organization\* \*

Name\* United States

Description United States of America

ISO Country Code\* US Country Code 3

☒ Country has Region Region State

☒ Country has Community ☒ Regions has Municipality ☒ Municipality has Parish

☒ Allow Cities out of List

Address Print Format\* @C@, @R@ @P@

Capture Sequence @A1@ @A2@ @A3@ @A4@ @C@, @R@ @P@ @CO@

Phone Format (000) 000-0000

Postal Code Format

Additional Postal Format

Currency USD

Language English (USA)

☐ Reverse Local Address Lines ☐ Use Postcode Lookup

Bank Account No Format

Bank Routing No Format

Local Address Format

City Region Translation Community Region City Municipality Parish Region Translation Country Translation

0 Records

Figure 10.1

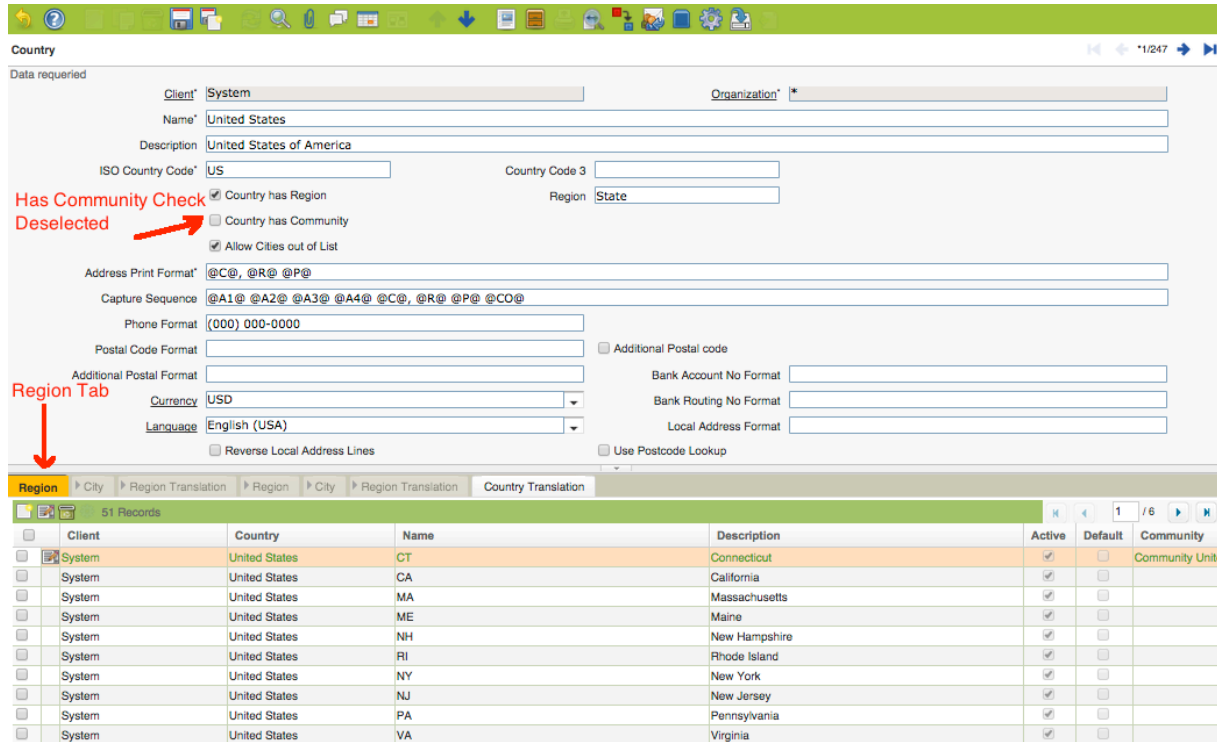
New Fields Added:

- Country has Region
- Country has Community
- Regions has Municipality
- Municipality has Parish

Idempiere Administrator may perform Community input through database, but just in case it is necessary to include the new Country's Communities using the Window, the 'Country has Community' check has to be set in order to have Community Tab available and then include Communities.

After completing income communities, regions have to be associated with their respective communities. In order to do this job, Idempiere Administrator has to deselect 'Country has Community' check in order to have Standard Region Tab available.

Having this Region Tab Visible, Regions can be updated in order to set Community associated with them. See Figure 10.2 and 10.3.

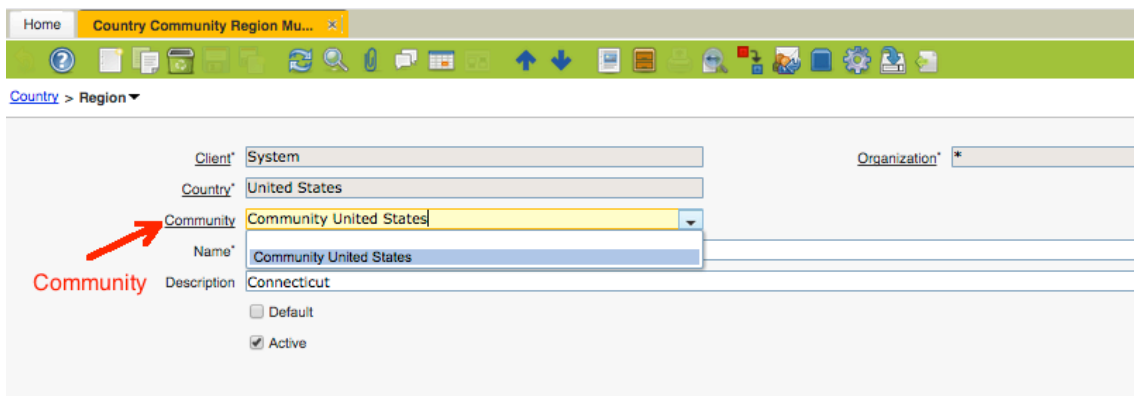


Has Community Check Deselected

Region Tab

Client	Country	Name	Description	Active	Default	Community
System	United States	CT	Connecticut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Community Unite
System	United States	CA	California	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	MA	Massachusetts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	ME	Maine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	NH	New Hampshire	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	RI	Rhode Island	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	NY	New York	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	NJ	New Jersey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	PA	Pennsylvania	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System	United States	VA	Virginia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Figure 10.2



Community

Figure 10.3

Complete Community association for all Regions and then set again 'Country has Community' Check. Community Tab will be visible again and Idempiere Administrator can perform Extended Demography Structure.

Community -> Region -> ( Municipality – City) → Parish

## A1. Plugin Installation.

Plugin installation can be performed using:  
Apache Felix Web Console

Log in into Apache Felix Console, as SuperUser and Install Jar File, provided on p2 repository's directory:

***org.amerp.amxeditor\_1.0.0.201508291605.jar***

See Figure A1.1

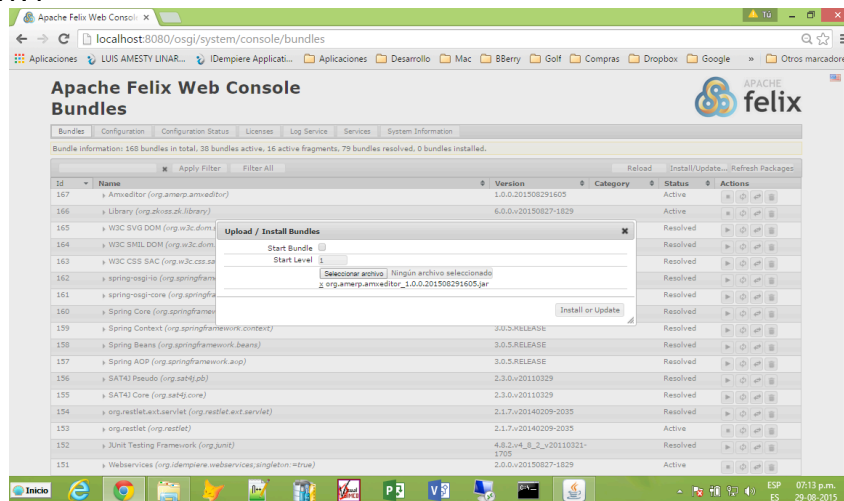


Figure A1.1

Screen will be seen as it shows on figure A1.2

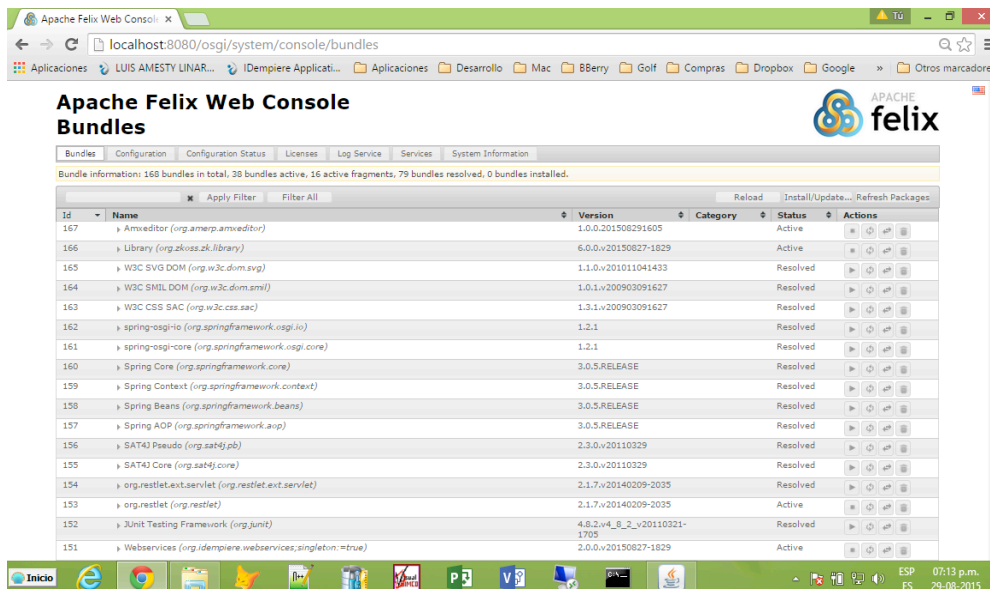


Figure A1.2

You must restart Idempiere Server in order to accomplish the changes.

Luis Amesty Linares

Plugin Installation provides all changes on Application Dictionary previously exposed on Manual. A Pack-in zip file (AMERP amxeditor.zip) is provided in documentation folder, just in case AD changes weren't applied with plugin.

## A2. Venezuela Extended Demography.

Venezuela's Extended Demography is provided by a zip Packing File on documentation folder in repository.

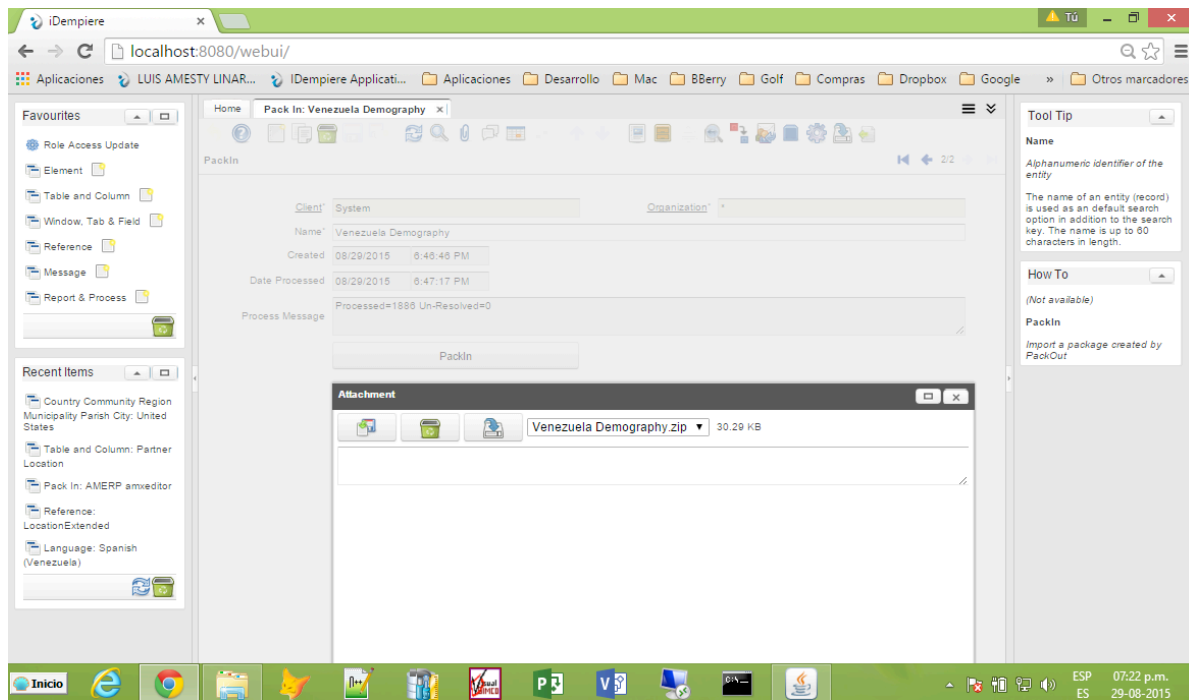


Figure A2.1