



# Openbravo Get Together

## Technology Day

### Localization and Internationalization Round Table

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Barcelona, October 28th 2007

# Agenda

**Introduction**

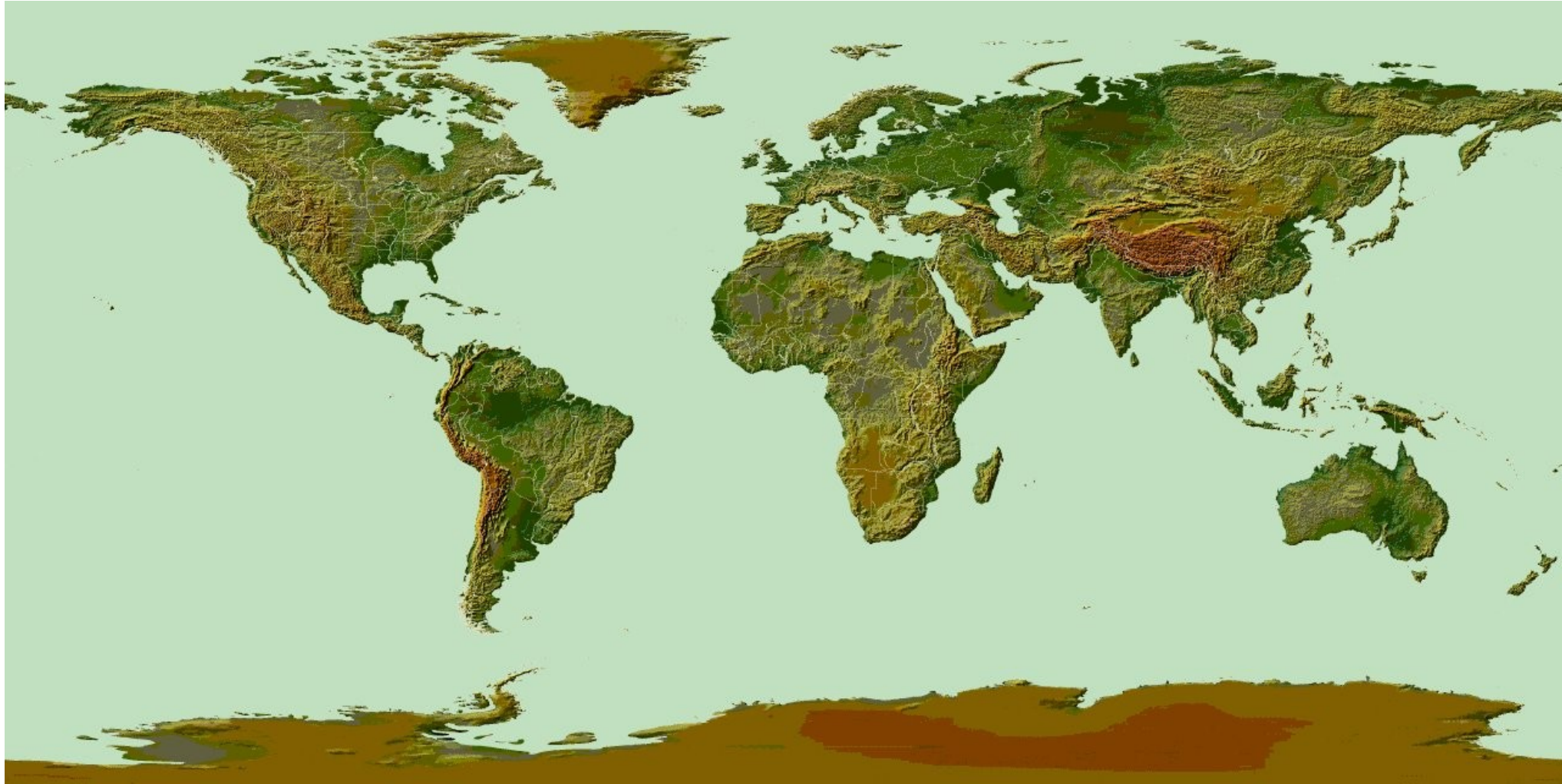
**Localization**

**Accounting**

**Questions and Answers**

# Introduction

## So... What is the big fuss about Localization?



# Openbravo Get Together – Localization & Internationalization Round Table

## Localization Components

### Local Deployment

### Global Deployment

#### Tech Stack

- **Locale**
  - Unicode support
  - National Language Support
  - Date and numbers formats
- **Translations**

- **Locale**
  - Multiple Language Support
- **Web user interface**
- **Wide area network support**
- **High Availability**

#### Legal Requirements

- **Accounting**
  - Chart of accounts
  - Accounting rules
- **Local tax**
- **Reporting**
- **Inventory valuation**

- **Multiple Currency Support**

#### Business Practices

- **Examples**
  - EDI
  - Electronic ordering & invoicing
  - Outsourced manufacturing
  - etc.

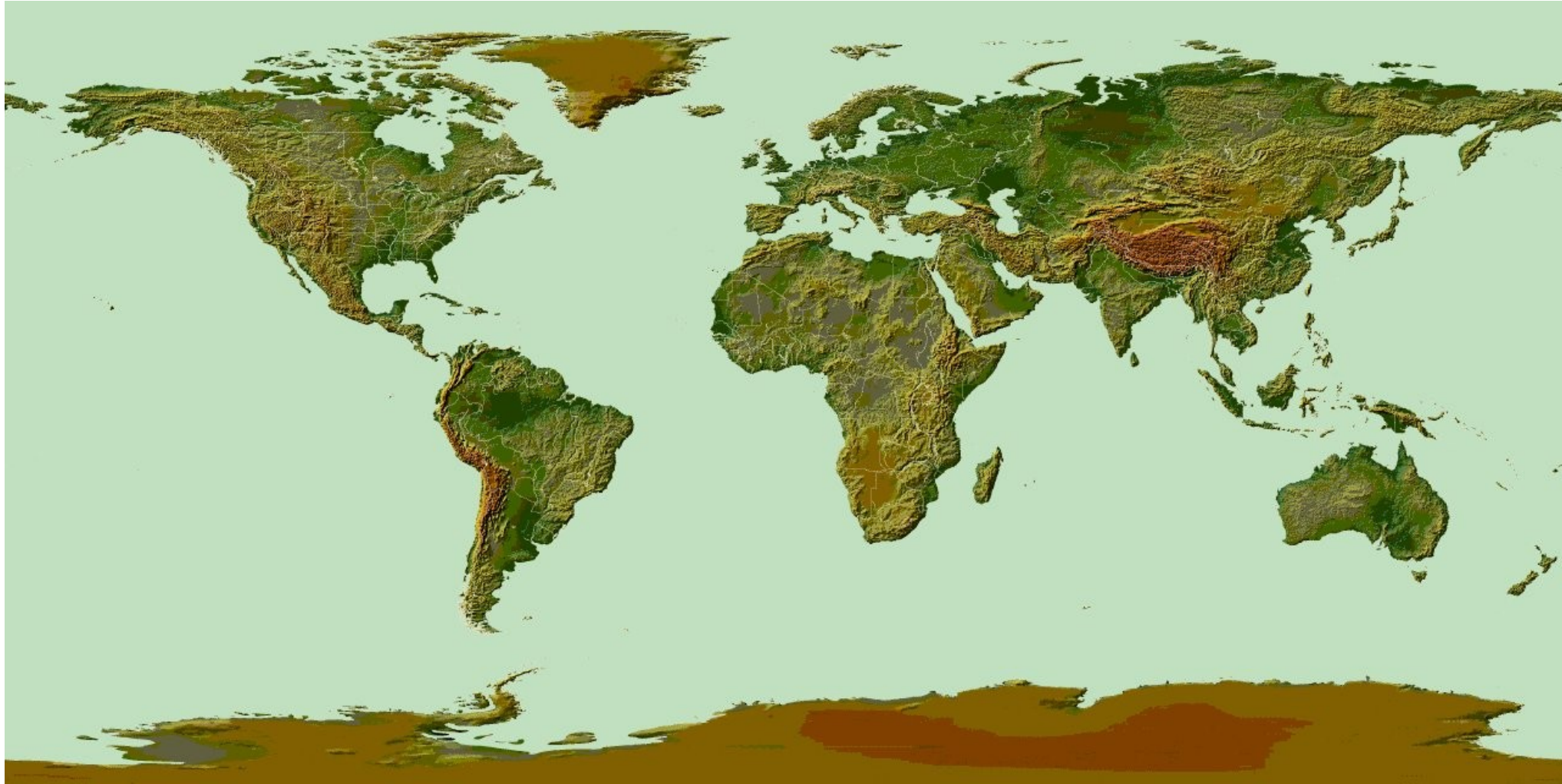
- **Examples**
  - Global sourcing
  - Global supply chain planning
  - Global trade management
  - etc.

#### Vendor Presence

- **Local system integrators**
- **Local support**
- **Local community**

- **Global system integrators**
- **Global support**

## How do you measure success?

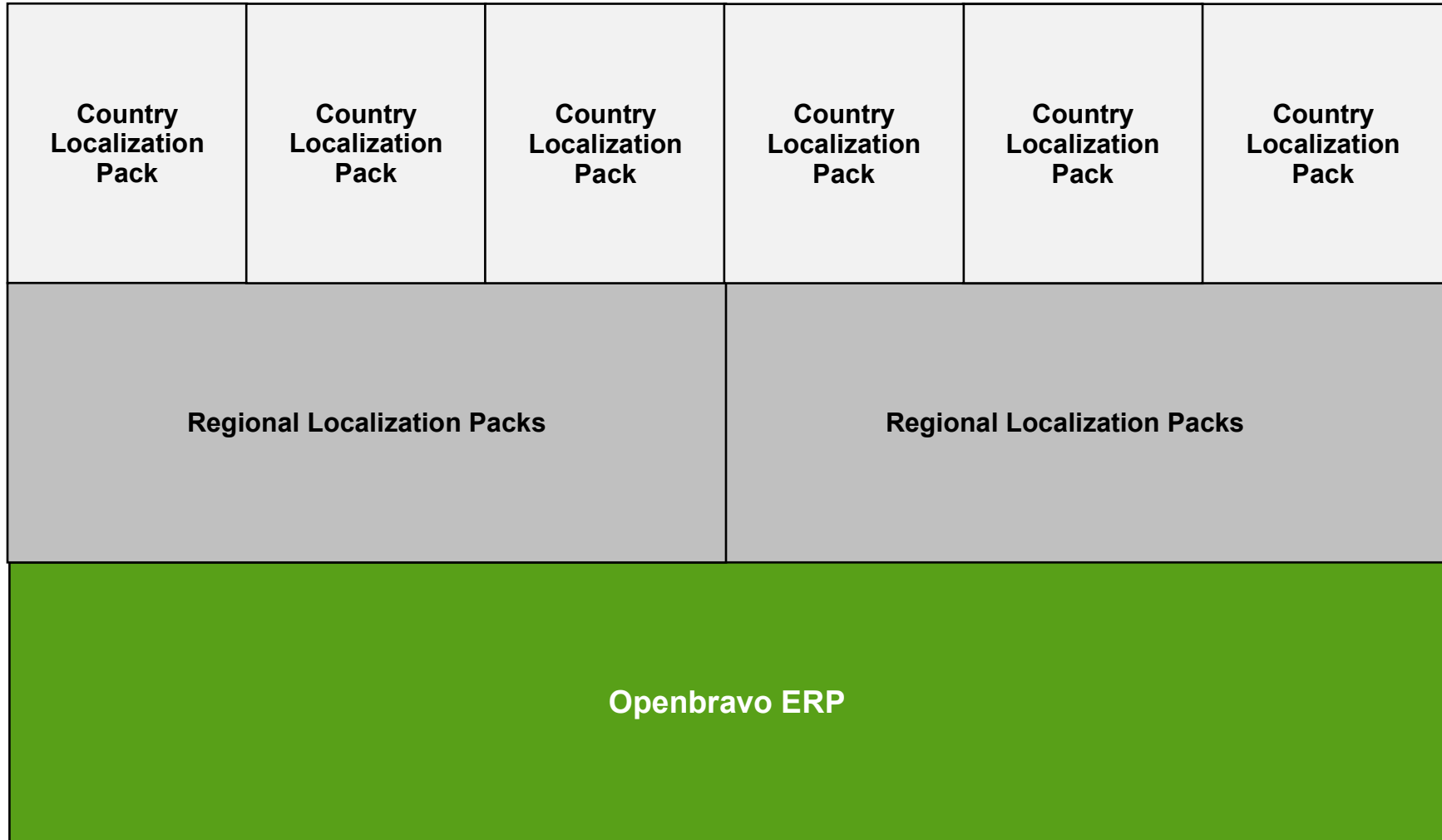


# How do you measure success?



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## The Openbravo Localization Stack – Future Vision



# Localization

- **Who can localize Openbravo?**

- Anyone can localize Openbravo ERP. Openbravo is leading the effort for Spain and United States. Openbravo community is leading 32 additional localization efforts.

- **What does it take to localize Openbravo?**

- Translate the user interface.
- Create a local Chart of Accounts file.
- Set-up the local taxes for a specific entity.
- Create dedicated reports to facilitate the filing of official reports (optional).

- **How much effort requires to do a basic Openbravo localization?**

- 4 weeks of a full time skilled translator.
- 1 week of a person with knowledge on the accounting system of the country.

- **Community driven process**

- All the documentation is available open and free at [wiki.openbravo.com](http://wiki.openbravo.com).
- Plenty of examples of how has been done for other countries.
- Openbravo and its community gives supports trough forums and IRC channels.
- The localizations are open and freely available to everyone.

- **Additionally: Commercial support from Openbravo**

- Second level support.
- Specific localization custom training.

- **Basic Openbravo localization process**
  - Register your localization effort.
  - Localize the XML files containing the translations.
  - Test the translation.
  - Create a chart of accounts.
  - Test the chart of account and the accounting.
  - Identify any special requirement for your country.
  - Upload your work and publish it at Openbravo.
  - Update and review your localization in future versions.

- **Areas of improvement that we are exploring**
  - Easing the installation and distribution of localization packs
  - Adding PO (Portable Objects) native support
  - Consolidating the strings in the product
  - Adding real time statistics of the status of the translations
  - Any additional idea?

# Accounting

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### How accounting works?

- All activity in the company must have an accounting entry
  - An accounting entry must have account numbers and amounts
  - Most of the accounting entries must be made automatically
  - The accounts to be used depend on the accounting system
- It's necessary to localize the accounting in an ERP
- Account systems are different for different countries

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### Accounting in localization

- Accounting in internationalization (or in any company) isn't a simple task
  - The company must define all accounting entries in the application
  - May be specific process and reports for a country or / and customers
  - Accounting is a skilled profession
- But for operating most of the accounting functions of Openbravo you need a simple file
  - The chart of accounts
  - It defines the accounts to be used with their features
  - It is explained in:
    - [http://wiki.openbravo.com/wiki/index.php/Creating\\_Accounts\\_Files](http://wiki.openbravo.com/wiki/index.php/Creating_Accounts_Files)
  - You can find examples of chart of accounts of others countries, probably similar to yours

- It defines the accounts with the following information:
  - Account value
  - Account name
  - Account description
  - Account type (Asset, Liability, Owner's equity, Expense, Revenue)
  - Account sign (Debit, Credit, Natural)
- It defines which account to use for automatic accounting:
  - Account document (Yes)
  - Default document (a constant for each type)
- It defines the structure of the General Accounting Reports:
  - Account Summary (Yes / No)
  - Account Parent (to define the hierarchy of accounts)

- The process to test a chart of accounts has 3 steps
  - 1. Test spreadsheet. It detects simple errors in the chart of accounts with 10 test:
    - Defaults not defined:
    - Account Value not null
    - Name not null
    - Type in domain
    - Sign in domain
    - Document in domain
    - Document not "Y" with default
    - Summary in domain
    - If Document "Y" summary "N"
    - Not Summary must have Parent
  - 2. Initial client setup
    - It creates an entity and loads the chart of accounts
    - In version 2.35 has improved with independent modules and enhanced final report
  - 3. Test the accounting process
    - Defines documents (invoices, settlements, bank statements...)
    - Process them and launch accounting process
    - Test the general accounting reports

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## Validation of chart of accounts


- Test spreadsheet

	A	B	C
1	Instructions to test a chart of accounts		
2	1. Paste the content of the csv file in the "Chart" sheet (the second sheet of this workbook)		
3	2. Format data in columns with the function Data -> Text to columns, choose delimited and click "," as separator, and click Finish		
4	3. Verify that all the checks are passed		
5	Result:	Test not passed	
6			
7	Max range		3000
8			
9	Check 1	Defaults not defined:	0
10	Check 2	Account Value not null	0
11	Check 3	Name not null	0
12	Check 4	Type in domain	0
13	Check 5	Sign in domain	296
14	Check 6	Document in domain	227
15	Check 7	Document not "Y" with default	4
16	Check 8	Summary in domain	0
17	Check 9	If Document "Y" summary "N"	0
18	Check 10	Not Summary must have Parent	0
19			527
20			
21			
22	A_ACCUMDEPRECIATION_ACCT	A_ACCUMDEPRECIATION_ACCT	
23	A_DEPRECIATION_ACCT	A_DEPRECIATION_ACCT	
24	B_ASSET_ACCT	B_ASSET_ACCT	
25	B_EXPENSE_ACCT	B_EXPENSE_ACCT	
26	B_INTRANSIT_ACCT	B_INTRANSIT_ACCT	
27	B_REVALUATIONGAIN_ACCT	B_REVALUATIONGAIN_ACCT	

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## Validation of chart of accounts

- Initial client setup (v2.35)

 Process completed successfully

Report Summary

Create client process completed successfully

Create accounting process completed successfully

Create document types process completed successfully

Create master data process completed successfully

\*\*\*\*\*

Starting create client

Client=ES  
Client=ES Accounting report  
Client=ES Activity  
Client=ES BoM  
Client=ES Bus Partner  
Client=ES Campaign  
Client=ES Element Value (Account, etc.)  
Client=ES Instructions  
Client=ES Organization  
Client=ES Product  
Client=ES Product Category  
Client=ES Project  
Client=ES Sales Region  
Client=ES Tax report  
Organization=ES  
Role=ES Admin  
Role=ES User  
User/Contact=ESAdmin/ESAdmin  
User/Contact=ESUser/ESUser

Create client process completed successfully

\*\*\*\*\*

Starting create accounting

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## Validation of chart of accounts

- Accounting process

Balance sheet			
Empresa: USA 2007		Fecha: 23-10-2007	
Condiciones: Periodo: 01/01/2007 - 23-10-2007 Periodo N-1: 01/01/2007 - 23-10-2007			
Empresa N-1: USA 2007			
Assets			
Elemento	2007	2007	2007
<b>11 - Current Assets</b>		-20	-20
111 - Petty Cash		748	748
112 - Bank Account		292	292
114 - Accounts receivable		-1.100	-1.100
116 - Tax Receivables		40	40
<b>12 - Long-term Assets</b>		1.100	1.100
122 - Product asset		1.100	1.100
<b>19 - Total Assets</b>		1.080	1.080

Balance sheet			
Empresa: USA 2007		Fecha: 23-10-2007	
Condiciones: Periodo: 01/01/2007 - 23-10-2007 Periodo N-1: 01/01/2007 - 23-10-2007			
Empresa N-1: USA 2007			
Liabilities & equities			
Elemento	2007	2007	2007
<b>21 - Current Liabilities</b>		580	580
214 - Tax Due		80	80
216 - Salaries payable		361,75	361,75
217 - Federal withholding payable		75	75
218 - State withholding payable		25	25
219 - FICA payable		38,25	38,25
<b>29 - Total Liabilities</b>		580	580
<b>33 - Retained earnings</b>		500	500
332 - Income summary		500	500
<b>38 - Total Owner#s equity</b>		500	500
<b>39 - Total Liabilities and Owner#s equity</b>		1.080	1.080

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### Localization enhancements in Openbravo R2.35

- Simplified the default accounts (now only 30 accounts)
- Updated documentation about creating chart of accounts
- The initial client setup is now modular and with more information for the user
- Audit of international chart of accounts with consulting firm
- Account and tax reports defined by the user

# **Questions and Answers**

# Openbravo Get Together



**Thank you!**

[www.openbravo.com](http://www.openbravo.com)