





Module 11 Setting up Customization Environment

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ADempiere|**ERP**

Module Objectives

- Downloading ADempiere Source Code
- Setup Development Environment
- Deploy new development



ADempeire SVN – Community Process

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🎁 SVN Repositories 🏵

🐠 SVN Annotate

- https://adempiere.svn.sourceforge.net/svnroot/adempiere
 - a 🗁 branches
 - a 🗁 contributions
 - b B adempiereAcctEdit
 - b 🗁 adempiere-xmi
 - > > WebServices
 - b 🗁 WindowsInstaller
 - a 🗁 tags
 - b 🗁 adempiere342
 - b 🗁 adempiere351a
 - b 🗁 adempiere352a
 - b 🗁 adempiere353a
 - b 🗁 adempiere354a
 - b 🗁 adempiere360libero
 - b > adempiere360liberoHR
 - b 🗁 adempiere360lts
 - a 🗁 trunk
 - base
 - b 🗁 client
 - 👂 🗁 data
 - ⊳ 🗁 db
 - b 🗁 doc
 - 👂 🗁 extend
 - Extension
 - b 🗁 alassfishfacet

• branches

Experimental Area

- contributions
 - **Functional Modules**

• tags Official Releases

• trunk

Latest Workable Version



Timeframe for the Switch to Mercurial

- ✓ On Friday, January 14th: HG becomes the main line of development
- On Wednesday, January 19th there will be a "switch day"
- ✓ On Tuesday, February 1st, we will drop /trunk from SVN
- Son Wednesday, April 20th, another "switch day"
- Son Monday, May 2nd, we will finally drop the SVN report

Mercurial Resource

- Maybe the best tutorial on HG: <u>http://hginit.com/</u>
- Practical and ADempiere related info: Mercurial Test Environment
- Docs about Mercurial on Sourceforge: <u>https://sourceforge.net/apps/trac/sourceforge/wiki/Mercurial</u>
- Online-Book "Mercurial: The Definitive Guide": <u>http://hgbook.red-bean.com/</u>

Deploying new features



Adempeiere Precedence of JAR

- 1. Customization.jar
- 2. Patches.jar
- 3. <Package>.jar (i.e., LiberoHR.jar, LiberoManu.jar, etc...)
- 4. Adempiere.jar

Deploying as a new JAR

- From eclipse Export the Development Project as JAR file
- Copy and Paste to Adempiere
 - 1. As customization.jar in C:\Adempiere\lib
 - 2. As <Package>.jar in C:\Adempiere\Packages\<Package>\<Package>.jar
- Execute Run_Setup.bat or RUN_SilentSetup.bat to include the new classes into the system runtime

Setup Development Environment









From User's Preference

Printer Snagit /
Date 13/03/2554 🖻 Dictionary Maintenance 🔽 Log Migration Script
Charset UTF-8

Migration Script will be stored in

C:\Users\<User>AppData\Local\Temp\migration_script_postgresql.sql







Scenario

• Make customization to the login window so that the dropdown list show only Thai and English language

🐵 ADempiere Login	—
Connection Defaults	
ADempiere Smart Suite ERP, CRM and SCM	Release 3.6.0LTS 2010-06-14
Server Ilocalhost{localh	ost-Development7-ade
User ID SuperUser	
Password •••••	
Language English (UK)	
English (UK) Español	
Español (MX) Español (CO)	
Not Connect Español (VE)	
Español (DO) Ελληνικά (GR)	-







Setup Workspace



- Open program Eclipse
- Open Workspace C:\Training360LTS
- Create new Java Project MyCustomization
 - From Menu, select File | New | Java
 Project
 - Project Name: MyCustomization
 - Click Finish
- Setup project dependency for MyCustomization
 - Right click on MyCustomization project folder
 - Select Property
 - On Property dialog, set Java Build path and select 2 projects, Adempiere360lts and patches_360

Properties for MyCustomization					
type filter text		Java Build Path			
Resource Builders Java Build Path ⊳ Java Code Style ⊳ Java Compiler	* III				
Javadoc Location					

 Click on Order and Export tab, move patches_360 to higher priority than adempiere360lts (patches.jar overwrite ADempiere.jar)

	MyCustomization/s	rc
MyCustomization/base/src		
	🛋 JRE System Library [.	JavaSE-1.6]
	∋ patches_360	
	<i>a</i> dempiere360lts ∂	

- Click OK to close the dialog.
- Create Run Configurations
 - With MyCustomization project selected, click on Run Configuration button, it will launch a dialog



- With Java Application selected, click New



Setup Workspace



- On Main tab
 - Name: MyConfiguraton
 - Project: MyCustomization
 - Main class: org.compiere.Adempiere

⊖ Ma	ain 🛛 (X)= Arguments 🔜 JRE	Vo Classpat
Proje	ect:	
My	Customization	
Mair	n class:	
org	.compiere.Adempiere	
📄 In	nclude system libraries when sea	arching for a
🔲 In	nclude inherited mains when se	arching for a
-	tan in main	

On Arguments tab fill VM Argument as follow,

-DPropertyFile=\${workspace_loc}/MyFirstProject.properties -Dorg.adempiere.server.embedded=true -Xms128M -Xmx256M



org.compiere.Adempiere act as entry point when run the code.

MyFirstProject.properties is the *adempiere.properties* for this project.

- Click Apply and close this dialog.
- We are now ready to run Adempeire from eclipse.
- Test run ADempiere
 - Click on Run button for MyConfiguration
 - ADempiere will start as normal. You will still see that the Language field in login page is now listing all available language.



 Next step we will modify the code so that it list only Thai and English.

Modify Source Code

ecosoft

b 2 adempiere360lts

🕮 src

⊿ 🗯 base/src

🕞 base

a 🔠 org.compiere.util

JRE System Library [JavaSE-1]

a 🛁 MyCustomization

- Modify Source Code
 - The Source Code that control the list of Languages is located at org.compiere.util.Language.java
 - Create base/src folder in MyCustomizatoin project.
 - Right click on base/src folder and create new package org.compiere.util
 - Copy Language java from adempiere360lts project and past it here.
 - Look for method Language and modify the source code so that it only keep English (UK) and Thai language b 10 patches 360



- Save the file. It will compile automatically. That's all we have to change.
- Start Run Configuration **MyConfiguration** again. You should now see only Thai and English (UK) on Language dropdown.



Running the source code in Debug Mode



Running in Debug mode is as simple as in the Run Configuration Mode

• As sample, setup break point in the **main** function of **org.compiere.Adempiere** class



- Run Debug Configuration instead, () and system will launch in debug mode.
- Use ADempiere as normal, system will break at specified Breakpoint
- Click on Eclipse: **Menu** > **Run** to see debugging (i.e., step into, step over and etc)

Test Your Knowledge

- 1. How to deploy JAR files in Production environment?
- 2. How to Debug Account Engine on Eclipse?
- 3. What is the precedence order of JAR in ADempiere?
- 4. What is migration script? And how it can be created?







