



The Integration of iDempiere and Wanda POS Documentation

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1 iDempiere's Wanda POS Integration Plugin

1.1 Download the plugin

To download the plugin go at this address : http://sourceforge.net/projects/wandaposdapos/ files/iDempiere/cm.itkamer.wandapos-integration_1.0.1.jar/download

1.2 Install the plugin

After download the plugin, run your iDempiere Server. After that open your browser and the following url: http://localhost:8080/osgi/system/console/bundles.

Replace localhost:8080 with your server name and port. The login is **SuperUser** and the password you have set for the **SuperUser**. After login, you will have this screen :

Apa Bun	che Felix Web Console dles		8	felix
Bundles	Configuration Configuration Status Licenses Log Service	Services System Information		
Bundle inf	ormation: 168 bundles in total, 38 bundles active, 16 active fragments	, 79 bundles resolved, 0 bundles installed	ł.	
	X Apply Filter Filter All	Reload	Install/Update	. Refresh Packages
Id 🗘	Name \$	Version	\$ Status \$	Actions
0	 OSGi System Bundle (org.eclipse.osgi; singleton:=true) 	3.7.2.v20120110-1415	Active	
39	▶ Adempiere Processes (org.adempiere.base.process)	2.0.0.v20140911-1729	Resolved	
88	Ant Build Tool Core (org.eclipse.ant.core; singleton:=true)	3.2.302.v20120110-1739	Starting	¢ +
14	AOP Alliance API (com.springsource.org.aopalliance)	1.0.0	Resolved	• • • •
24	▶ Apache ActiveMQ - KahaDB (com.springsource.org.apache.kahadb)	5.3.0	Resolved	► ¢ ≠ 1
15	Apache ActiveMQ Core (com.springsource.org.apache.activemq)	5.3.0	Resolved	
61	Apache Ant (org.apache.ant)	1.7.1.v20100518-1145	Resolved	► \$ \$ \$
66	Apache Batik AWT Utilities (org.apache.batik.ext.awt)	1.7.0.v201011041433	Resolved	■ (\$\$)
62	Apache Batik Bridge/GVT/Scripting (org.apache.batik.bridge)	1.7.0.v201011041433	Resolved	■ (\$\$)
63	Apache Batik CSS (org.apache.batik.css)	1.7.0.v201011041433	Resolved	■ (\$\$)
64	Apache Batik DOM (org.apache.batik.dom)	1.7.0.v201011041433	Resolved	■ ¢ • ■
67	Apache Batik Extension (org.apache.batik.extension)	1.7.0.v201011041433	Resolved	• • • •
70	▶ Apache Batik GUI Utilities (org.apache.batik.util.gui)	1.7.0.v200903091627	Resolved	

Figure 1: Apache Felix Web Console

Click on the **Install/Update** button. Select the jar you have downloaded in the section 1.1. Configure your starting behaviour and click on **Install or Update**.

Apa Bun	che Felix v dles	veb Con	sole					8		fe	el	ix
Bundles	Configuration Conf	iguration Status	icenses Log Serv	ice Services	System Info	ormation						
undle inf	formation: 168 bundles in	total, 38 bundles acti	ve, 16 active fragme	ents, 79 bundles	resolved, 0 bu	indles installe	ed.					
	ж Арр	ly Filter Filter Al				Reload	In	stall/Update	Ref	esh	Pack	ages
Id 🗢	Name			Version	¢	Category	• \$	Status 🗘	Ac	tion	s	
0	▶ OSGi System Bundle (org.eclipse.osgi; sing	(leton:=true)	3.7.2.v2012	0110-1415			Active				
39	Adempiere Processes	(org.adempiere.base	process)	2.0.0.v2014	0911-1729			Resolved		¢	-	
38	▶ Ant Build Tool Core (Upload / Install I	Bundles				×	Starting	ć			
4	▶ AOP Alliance API (cor	Start Bundle	v					Resolved		6	-	1
24	▶ Apache ActiveMQ - Kaha	Start Level	1 Choisir le fichier	aucun fichéleo	tionné			Resolved	•	¢	(-) (-)	i i
15	▶ Apache ActiveMQ Con		<u>x</u> cm.itkamer.wan	dapos-integration	_1.0.0.jar			Resolved		¢	(e)	1
51	▶ Apache Ant (org.apad				Ins	tall or Update	в	Resolved	Þ	¢	(c)	1
56	▶ Apache Batik AWT Ut	nico (orgiopacinolosi	monumy	11/10/12020			11	Resolved	•	¢	-	-
52	▶ Apache Batik Bridge/0	GVT/Scripting (org.ap	ache.batik.bridge)	1.7.0.v2010	11041433			Resolved		6	e	
63	▶ Apache Batik CSS (or	g.apache.batik.css)		1.7.0.v2010	11041433			Resolved				

Figure 2: Install or Update Wanda POS Plugin

Now go at the end of the page. You will see that the plugin has been installed.

165	▶ W3C SVG DOM (org.w3c.dom.svg)	1.1.0.v201011041433	Resolved	► \$ ₽ €
168	▶ WandaPOS Integration (cm.itkamer.wandapos-integration;singleton:=true)	1.0	Active	• ¢ + •
144	▶ Web Console (org.idempiere.felix.webconsole)	2.0.0.v20140911-1729	Active	• ¢ + •



2 Use the plugin

Now the plugin in iDempiere is now ready to be used. Now open your browser and the following url : http://localhost:8080/webui.

Use the ${\bf SuperUser}$ account and provide the password you set for this user.

	Login
Version : 2.0.0.v20140911-1729 Database Version : 201409051741_DEMPERE-1970.sql Vendor : Supported by Dempiere community JVM : Java HotSpot(TM) 64-8t Server VM 24.0-b56 OS : Windows 8.6.2	
Host : localhost	Upen Source LERP System
	Select Role
	V OK 🛞 Help

Figure 4: iDempiere login account

After click on the OK button, set the *Client* to **System**, *Role* to **System Administrator** and also set your *Organization* and your *Warehouse*.

Version : 2.0.0.v20140911-1729 Database Version : 201409051741_DEMPERE-1970.sql Vendor : Supported by Dempiere community J/M : Java HotSpot(TM) 64-8it Server VM 24.0-b56 OS : Windows 8.6.2 Host : localhost	i	Select Role
	Client	System -
	Role	System Administrator
	Org	1 v
	Warehouse	
	Date	10/23/2014
		🖌 OK 🗱 Cancel

Figure 5: iDempiere login account

2.1 Wanda POS iDempiere's Menu

When your are logged, click on the **Menu** button at the top of the page. You will have this screen :

🤪 iDempiere 🛛 🖓 Apacl	he Felix	Web C				+
iDempiere	Q	Menu	SuperUser@S	System.*/System	Administrator	
Favourites	A ctin	Meru System Admin Application Dictionary Partner Relations Guote-to-Invoice Material Management Performance Analysis Assets Wanda POS Synchronisation Wanda POS Synchronisation Workflow Export Data to Queue Marking Might Orders Process Imported Orders Process Imported Orders Turn ActiveMQ ON Turn ActiveMQ OFF	SuperUser@S	ystem "/System Preference	Administrator Change Role	

Figure 6: Wanda POS Synchronization Menu

Items	Description				
Wanda POS Synchronisation Workflow	Guide to operate the Wanda POS Synchro-				
Wanda 1 05 Synchronisation Worknow	nisation.				
Export Data to Queue	Export Products and Customers from iDem-				
Export Data to Queue	piere to the ActiveMQ Server.				
Import Orders from Wanda DOS	Import Orders synchronized by all the				
Import Orders nom wanda 1 05	Wanda POS Stations in iDempiere.				
Process Imported Orders	Process Imported Orders in iDempiere.				
Turn ActiveMQ ON	Start the ActiveMQ Server.				
Turn ActiveMQ OFF	Stop the ActiveMQ Server.				

Table 1: Wanda POS Synchronisation Menu Description

2.2 Setup ActiveMQ in iDempiere

Like you see in the previous section, the *Wanda POS Synchronisation* menu contain two elements named :

- $1.~{\rm Turn}$ Active MQ ON
- 2. Turn ActiveMQ OFF

These elements are two tasks which enable user to start an ActiveMQ server directly from iDempiere. To be able to use this two tasks, you must first setup ActiveMQ in iDempiere. Follow these steps :

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1. Download ActiveMQ

We made some scripts to be able to start ActiveMQ from iDempiere. You can download a pre-configured ActiveMQ server in our sourceforge.net repository. It already contains all the necessary scripts and all the others configurations we made in the original ActiveMQ Server downloaded from apache web site.

Download pre-configured ActiveMQ : http://sourceforge.net/projects/wandaposdapos/files/iDempiere/ActiveMQ/pre-configured-activemq-5.7.zip/download

Unzip the file in the directory **%IDEMPIERE_HOME%** utils (%IDEMPIERE_HOME% = The directory where you installed your iDempiere server).

Note 1 : If you want to use your own ActiveMQ you have to :

1. Download this zip which contains all the scripts :

```
Windows : http://sourceforge.net/projects/wandaposdapos/files/iDempiere/
ActiveMQ/idempiere-activemq-scripts-windows.zip/download
```

Linux: http://sourceforge.net/projects/wandaposdapos/files/iDempiere/ActiveMQ/ idempiere-activemq-scripts-linux.zip/download

After download these zip, unzip it in the directory named **bin** in your ActiveMQ.

2. Modify your ActiveMQ configuration

Go where you unzipped your ActiveMQ server. Enter in the directory **conf** and open the file named **activemq.xml**. Look for these lines :

Change the value of the attribute **createConnector** to **true**. So when your ActiveMQ Server will start, it will create its own Connector insted of use the default JVM JMX connector (Ref : http://activemq.apache.org/jmx.html). This is very important if you want to be able to stop the ActiveMQ Server from iDempiere.

Copy your ActiveMQ in the directory **IDEMPIERE_HOME/utils** (IDEMPIERE_HOME = The directory where you installed iDempiere).

2.3 Start ActiveMQ Server

After correctly setup your ActiveMQ Server, go back to the iDempiere's webui. In the menu **Wanda POS Synchronsation**, click on the item **Turn ActiveMQ ON**. The ActiveMQ Server would start like this :

👔 iDempiere 🛛 🕼	Apache Felix Web C		+
iDempiere	9. Menu	SuperUser@System.*/System Administrator	
Open Source ERP System	, mond	Feedback Preference Change Role Lo	g Out
Favourites	Home Turn Activ	eMQ ON X	
The Manuel D	INFO Apache Ac	tiveMQ 5.7.0 (localhost, ID:TATIOTI-PC-64111-1414073803148-0:1) started	^
- Menu	WARN I Store lim	t is 102400 mb, whilst the data directory: C:\iDempiere\utils\activemo\bin\.\data\kahadb.only.has 2513	4
System Configurator	mb of usable space	2e	1
Element	ERROR Tempor	ary Store limit is 51200 mb, whilst the temporary data directory:	
Table and Column	C:\iDempiere\utils	\activemq\bin\\data\localhost\tmp_storage only has 2513 mb of usable space	
T Window, Tab & Field	INFO Jetty-7.6.7.	20120910 NebConsole initialized	
The Perference	INFO started o.e.	j.w.WebAppContext{/admin,file:/C:/iDempiere/utils/activemg/webapps/admin/}	
- Reference	INFO Initializing \$	Spring FrameworkServlet 'dispatcher'	
Te Message	INFO ActiveMQ	Console at http://0.0.0.8161/admin	
📑 Report & Process 📄	INFO started o.e.	J.W.WebAppContext{/camel,file:/C:/IDempiere/utils/activemq/webapps/camel}	
	INFO I started o e	i w WebAppContext{/demo file/(C/iDempiere/utils/activemo/webapps/demo/}	
	INFO Apache Ac	tiveMQ Web Demo at http://0.0.0.0:8161/demo	
Decent Items	INFO started o.e.	j.w.WebAppContext{/fileserver,file:/C:/iDempiere/utils/activemq/webapps/fileserver/}	
	INFO RESTful file	e access application at http://0.0.0.0:8161/fileserver	
	INFO started o.e.	J.W. WebAppContext{/joiokia,tile:/C./IDempiere/utils/activemq/webapps/joiokia/}	
	INFO LISON JMX	Agent at http://0.0.0.0.8161/jolokia	
	INFO Started Se	ectChannelConnector@0.0.0.0:8161	
		-	
			ы
	<		>
			<

Figure 7: Start ActiveMQ Server from iDempiere

After that open your browser and the following url: http://localhost:8161/admin/queue.jsp. Replace localhost:8161 with your server name and port. You will have a page which looks like the picture 2.3. Our ActiveMQ is empty.



Figure 8: ActiveMQ Web Admin

2.4 Add Product in iDempiere

We have added some product in iDempiere ERP. Like you see, the informations about the product are :

- 1. Name : Grass Seed Container
- 2. Product Category : Standard
- 3. Tax Category : Standard

🤪 iDempiere 🛛 🕼 Apache	Felix Web C 🛛 🗛	📕 localhost : Queues				+
iDempiere	۹ Menu			SuperUser@GardenWorld.H	Q/GardenWorld Adm	nin
Favourites I	ome (15)	uct: Grass Grass Seed 🗙	🗏 🗏 🖱 🔍 🍡		Change Role	\$ €
System Configurator	duct requeried				M 🔶 [1/1]	
📑 Business Partner 📑	Client*	GardenWorld	Organization*	HQ		^
Product	Search Key Name*	Grass Grass Seed Container	Version No			
	Description					
Recent Items	Comment/Help				1.	
	Document Note				1,	
	UPC/EAN		SKU			
	Product Category*	Standard -	Classification			
	Tax Category*	Standard -				
	UOM-	Each	Company Agent		•	
	Product Type*	Item -	Mail Template		•	
Deta	Moiabt ail record	n nn 📼	Valuma		0.00	<u>ب</u>

Figure 9: Add Product in iDempiere

We also added $\mathbf{Price}\ \mathbf{List}$ for this product :

- 1. List price : 80.00
- 2. Standard Price : 75.00
- 3. Limit Price : 72.00

👔 iDempiere	🚯 Apache Felix Web C 🛛	🕮 localhost : Queues					+
iDempiere	۹. Menu				SuperUser(@GardenWorld.HQ/GardenWorld	Admin
Favourites	Home (15) Prod	luct: Grass Grass Seed 🗴) 🕫 🎟 🛧 🔶 🦉	= - - - :	Feedback	Preference Change Role	≳ 🕐
System Configurator	Product Data requeried					H 🔶 [1/	1] → ▶
Business Partner	<u>Client</u> * Search Key	GardenWorld Grass		<u>Organization</u> * Version No	HQ		
Product	Name* Description	Grass Seed Container					
Recent Items	Comment/Help						<i>6</i>
	Substitute Related	Replenish Purchasing	Business Partner Pri	ice Accounting	Transactions Lo	cated at UOM Conversion	Costs
	Second S	Price List Ver eed Container Purchase 2001 eed Container Purchase 2003 eed Container Standard 2003 eed Container Evront 2002	rsion Active	List Price 80.00 80.00 80.00 73.73	Standard Price 48.00 48.00 76.00 60.00	Limit Price 40.00 40.00 72.00 es re	* * *

Figure 10: Product Price List in iDempiere

In the following screen we set the quantity on hand for this product.

🍾 iDempiere 🛛 🕼	Apache Felix Web C	🕮 localhost : Queues	ſ						+
iDempiere	۹ Menu					Sup	erUser@GardenWorl	d.HQ/GardenWorld A	dmin
Favourites	Home (15)	uct: Grass Grass Seed .	×		- A			e Change Kole	★ ⑦
The Menu	Product						1	K 🔶 [1/1	1 → →I
Business Partner	Data requeried Comment/Help								^
Product	Document Note								
	UPC/EAN				SK	υ		//	
Recent Items	< Product Category*	Active Standard	•	•	Classificatio	I Summary	/ Level		
	Tax Category*	Standard Replenish Purchasin	g Business Partner	Price	Accounting	Transactions	Located at	UOM Conversion	Costs
	Active Attrib	s oute Set Instance Date	Material Policy Loca	or	Date last inv	ventory count	On Hand Quantity	PO Quantity	Or
		01/2	2/2003 Defat	it HQ Locat	or		1	12	0
	<								>
	Detail record								(

Figure 11: Product Price List in iDempiere

<u>Note</u>: This product is only for **HQ** organization. So when we will do synchronization with Wanda POS, this product will be synchronized only by the Wanda POS Station for which POS Locator Name is: **HQ**.

2.5 Export Products and Customers from iDempiere

In the iDempiere's Wanda POS Synchronisation menu, click on the Export Data to Queue item. iDempiere will open this window process.

👔 iDempiere 🛛 🥫	👌 Apache Felix Web C 🔰 👹 loca	host : Queues	5						+
iDempiere	۹. Menu					SuperUser@	GardenWorld.H	Q/GardenWorld /	Admin
Favourites	Home (15) Export Data to Q	ueue ×				reedback	Preference	Change Role	☆ 🕐
T Menu	Export Products or Cu	istomers to Q	ueue						
📑 System Configurator 📑 Business Partner 📑	This process does not m Wanda POS Stations ca	nodify anything In pick up later	within your El	RP. It only write	es Products and	Customer	rs to the ac	tiveMQ Ser	ver. So
Sales Order Sales Order Product Recent Items	Host* Port Products Queue Name* Customers Queue Name* Username Password	localhost 61616 Products Customers admin							
	Products Category Customers Category Price List	Standard Custome Standard 2003 Self Service Erase Queue	rs			* * *			
	Saved Parameters	•					🔶 St	art 💢	Cancel

Figure 12: Export Data to Queue Process

Fields	Description		
Host	The host on which the ActiveMQ Server is listening (eg : localhost).		
Port	The port on which the ActiveMQ Server is listening (eg : 61616).		
	This is the queue name in ActiveMQ Server on which the process		
Products Queue Name	will send products. <u>Note</u> : This value must be the same in Wanda		
	POS's wandapos.properties file.		
	This is the queue name in ActiveMQ Server on which the process		
Customer Queue Name	will send customers. \underline{Note} : This value must be the same in Wanda		
	POS's wandapos.properties file.		
Username	This is the username for the ActiveMQ Server (eg : admin).		
Password	This is the password for the ActiveMQ Server.		
Product Category	This is the product category for the products we want to synchro-		
I focuet Category	nize (eg : Standard).		
Customer Category	This is the customer category for the customers we want to syn-		
Customer Category	chronize (eg : Standard 2003).		
Prico List	This is the price list for the products we want to synchronize (eg :		
	Standard 2003).		

 Table 2: Export Data to Queue - Fields Description

<u>Note</u>: To be able to choose the products's category, the customers's category and price list, you must login in iDempiere with an account which has the right to access these informations.

Check the **Self Service** box and also the **Erase Queue** box if you want to erase the previous queue before the synchronisation. Click on the **Start** button. After the export is finished, the process will show you the export results.

👔 iDempiere 🛛 🕼	Apache Felix Web C 🛛 💆 loc	alhost : Queues		+
iDempiere	۹. Menu		SuperUse	r@GardenWorld.HQ/GardenWorld Admin
Open Source II LRP System	Home (15) Export Data to	0	Feedback	Preference Change Role Log Out
Favourites	Export Products or Cu	stomers to Queue		~ 🔮
🔚 Menu 📄				
📑 System Configurator 📑	This process does not m Wanda POS Stations ca	odify anything within n pick up later.	your ERP. It only writes Products and Customer	s to the activeMQ Server. So
🛅 Business Partner 🔡	** Export Finished			
🚍 Sales Order 🔡	Export Finished			
Product			Export Results	
	10/23/2014	1000201	Exported Products : 1	
0	10/23/2014	1000201	Exported Customers : 4	
Recent Items				
	Saved Parameters	• 🔲		Narameter X Cancel

Figure 13: Export Data to Queue Result

Now go back to ActiveMQ web admin. You will see the new created queues.

۲			loca	lhost : Queue	es		- D ×
+ W http://localhost:	:8161/admin/queu	es.jsp			ç	Q- Google	D- *-
& 따 IIII Apple Yahoo! G	Google Maps You	Tube Wikipédi	ia Informatio	ons 🔻 Divers	•		
A	ctiv	eM	Q [™]				The Apache Software Foundation http://www.apache.org/
Home Queues Topic	s Subscribers	Create	5 Network	Scheduled	Send		Support
Queues							Queue Views Graph XML
Name †	Number Of Pending Messages	Number Of Consumers	Messages Enqueued	Messages Dequeued	Views	Operations	Topic Views
FertilizerCustomers :	1	0	1	0	Browse Active Consumers atom rss	Send To Purge Delete	Subscribers Views
FertilizerTCustomers :	1	0	1	0	Browse Active Consumers atom rss	Send To Purge Delete	XML Useful Links
FurnitureCustomers	1	0	1	0	Browse Active Consumers atom rss	Send To Purge Delete	 Documentation FAQ Downloads Forums
FurnitureTCustomers :	1	0	1	0	Browse Active Consumers atom rss	Send To Purge Delete	
HQCustomers :	1	0	1	0	Browse Active Consumers atom rss	Send To Purge Delete	
HQProducts :	1	0	1	0	Browse Active Consumers	Send To Purge Delete	

Figure 14: New created Queues

<u>Note</u>: This process exports products for each POS Locator Name (Organization). So if we have 5 Wanda POS Stations and 20 products, 5 for each Wanda POS Station, this process will export products in 5 Queues in the ActiveMQ Server.

The process will also export all the customers in the *Customer category* choosed in ActiveMQ's Queues for all organization set in iDempiere ERP.

Like you see in the previous picture, customers have been synchronized for all organizations(Furniture, HQ, Fertilizer ...) set in iDempiere.

<u>Note</u> : There is only products for HQ Organization. So only the Wanda POS station which has pos = HQ in its wandapos.properties will be able to synchronize products in the queue : HQProducts.

The key used to identify each Wanda POS station is the **POS Locator Name** (pos key in wandapos.properties file). So when you synchronize informations, you have to be sure of that :

- 1. Customers and Products Queue Names must be the same in both Wanda POS and iDempiere ERP.
- 2. POS Name (**«entry key="pos"»HQ«/entry»** in **wandapos.properties**) must match one organization in iDempiere ERP.

2.6 Import Products and Customers to Wanda POS

After exported customers and products from iDempiere, lunch Wanda POS and go the menu **Main-tainance**.

w		Wanda POS - 1.0		- 🗆 🗙
13-1	0-2014 22:35:31	Wanda POS - Africa's Gift to the World		IT-Kamer
	Maintenance			
	Point Of Sale			
	Users	Roles	Taxes	
	Tax Categories	Customer Tax Categories	Resources	
	Locations	Floors		
	Reports			
	Users	Sales by User		
	iDempiere ERP			
	W POS Synchronisation	ERP Order Synchronisation		
	TATIOTI-PC - General idbc:mysql:/localhost:3306/wandapos		2	Administrator

Figure 15: Maintainance Menu

Click on the **Resources** button. Scroll all resources in the left and look for the resource named: wandapos.properties. You have to modify this file to match queue names (Products and Customers) you seted when you exported from iDempiere.



Figure 16: Wanda POS Properties

Now go back to the maintenance menu and click the button : **POS Synchronisation**. After some few seconds, you will have a message from the database manager informing you that **The data synchronization has been successful**. You can click on the **Info** button display more informations about the numbers of products and customers which have been synchronized. Like you see, we have exported one product and four Customers from iDempiere ERP and after synchronization in Wanda POS we have exactly one product and four Customers imported in Wanda POS.

w	Wanda POS - 1.0	- 🗆 ×
13-10-2014 22:39:32	Wanda POS - Africa's Gift to the World	IT-Kamer
Maintenance		
Point Of Sale		
Users	Roles Taxes	
Tax Categories	Customer Tax Categories Resources	
Locations	Floors + Tables	
Reports	Database manager message	
Users	INF_00_0000 Success: The data synchronization has been successful.	
iDempiere ERP		
W POS Synchronisation	1 products synchronized.	
	4 customers synchronized.	
TATIOTI-PC - General jdbc:mysqt://localhost:3306/wandapos		Administrator

Figure 17: Products and Customers Synchronization

2.6.1 New Products

When we go to the *Products* menu, we have the product named **Grass** created in iDempiere which has been synchronized in Wanda POS.

w	Wanda POS - 1.0	- 🗆 🗙
13-10-2014 22:43:37	Wanda POS - Africa's Gift to the World	IT-Kamer
Products		
By Barcode Barcode C N N 125 - Grass xxx999 - ***	Buy Price Sell Price None None None None None None I 2 Image I 25 Image Barcode 125 Barcode 125 Barcode 125 Name Grass Category Standard I attributes Image I attributes Image <th></th>	
TATIOTI-PC - General		Administrator

Figure 18: New Product(1)

When you go to the Sales menu, you see a new category named : Standard which has been created and contains only one product: **Grass**. Enjoy !!!!!!

w			Wanda POS	5 - 1.0			-	×
13-1	10-2014 22:59:59	I	Wanda POS - Africa's	Gift to the World			r	T-Kamer
						8- %	i	
	Item	Price	Units Taxes	Value		CE	*	-
						12	3	A
						45	6	
					-	78	9	=
	(10:59 325)	Su	ibtotal Taxe	es Total		٥	•	
					г			
	Category Standard Standard							
								•
	TATIOTI-PC - General jdbc:mysql://localhost:3306/wandapos						💦 Adr	ninistrator

Figure 19: New Product(2)

2.6.2 New Customers

When we go to the *Customers* menu, we have four customers created in iDempiere which have been synchronized in Wanda POS.

W		Wanda POS - 1.0	- 🗆 🗙
20-10-2014 15:58:26	v	Vanda POS - Africa's Gift to the World	IT-Kamer
Customers			
N .	4		
Tatioti Standard Carl Boss Joe Block	Account ID Name Card Visible Customer Tax Credit Limit Current Debt Contact Address	Search Key JoeBlock Joe Block	
TATIOTLPC - General	Address Line 1 Address Line 2 Town/City State/County Country	123 Oak St Hartford Zip/PostCode Connecticut United States	
TATIOTI-PC - General jdbc:mysql://localhost:3306/wandapos			Administra

Figure 20: New Customers

2.7 Export Orders from Wanda POS

Now we are going to make some orders and we will synchronize this orders with iDempiere ERP always using ActiveMQ as a man in the middle for the integration of iDempiere ERP with Wanda POS. This is the second side of the integration : Synchronize orders from Wanda POS to iDempiere ERP.

2.7.1 Place Orders

Place orders in your Wanda POS and click on OK button.



Figure 21: Place Order

2.7.2 Orders Synchronization

After make one sale, go to the Maintenance menu. Click on the button : **ERP Order Synchronization**. After few seconds your order(s) will be synchronized. You can click on the **Info** button display more informations about the numbers of orders which have synchronized.

w	Wanda POS - 1.0	_ 🗆 🗙
14-10-2014 0:16:11	Wanda POS - Africa's Gift to the World	IT-Kamer
Maintenance Point Of Sale Point Of Sale Subsers Contained Reports Contained Dempiere ERP Dempiere ERP Dempiere ERP Dempiere ERP Dempiere ERP	Database manager message VF_00_000 Success: The orders synchronization has been successful. 1 orders synchronized. Info Info Info	Taxes Resources Tables
TATIOTI-PC - General jdbc:mysql://localhost:3306/wandapos		Administrator

Figure 22: Orders Synchronization

2.8 Import Orders to iDempiere

Go back to iDempiere ERP in the Wanda POS Synchronisation menu and click on the process : Import Orders from POS.

🤪 iDempiere 🛛 🕼 Ap	oache Felix Web C 🛛 💆 Queu	es	🚱 127.0.0.1 phpMyAd	<u></u>				+
	۹. Menu			Sup	erUser@Garde	enWorld.HQ/G	BardenWorld /	Admin
Favourites	Home (15) Import Orders fr	om Wanda POS ×						☆ 🕜
T Menu	Import Sales Orders ex	ported by Wan	dPOS and write to I_C	Order table				
👕 System Configurator 📑 🖶 Business Partner 📑 🖶 Sales Order 📑	This process will read fro can test it by checking the I_Order table for you to re	m the XML mes e Test Run flag v eview or process	sage stored in the Active hich will not flush the qu	eMQ service. Ensu leue after reading. I	re that the t will store	service i: d each re	s running. cord read	. You d in
Product	Host*	localhost						
	Port*	61616						
-	Username	admin						
Recent Items	Password							
	Orders Queue Name*	Orders						
		Test Run						
	Saved Parameters	•				🔶 ОК	*	Cancel

Figure 23: Import Orders Process in iDempiere(1)

Fields	Description
Host	The host on which the ActiveMQ Server is listening (eg : localhost).
Port	The port on which the ActiveMQ Server is listening (eg : 61616).
	This is the queue name in ActiveMQ Server on which the process
Orders Queue Name	will pick ordres. <u>Note</u> : This value must be the same in Wanda
	POS's wandapos.properties file.
Username	This is the username for the ActiveMQ Server (eg : admin).
Password	This is the password for the ActiveMQ Server.
Test Queue	Test the process. This will pick up queue from ActiveMQ without
	removed messages inside it.

Table 3: Import Orders from Queue - Fields Description

After set all the fields, click on the **Start** button. After few seconds you will have the **Import Result**.



Figure 24: Import Orders Process in iDempiere(2)

2.8.1 Process Imported Orders

Go back in the **Wanda POS Synchronisation** menu in iDempiere and click on the item named : **Process Imprted Orders**. Navigate through all orders in the window you will see the new imported order(s).

- 1. Product Key : Grass
- 2. Unit Price : 80
- 3. Order Quantity : 2

👔 iDempiere	J 💩 /	Apache Felix Web C	🕮 Queues	🛛 🚱 127.0.0.1 phpł	MyAd				+
iDempiere		۹. Menu				SuperUser@0	BardenWorld.HC	2/GardenWorld Ad	dmin
Favourites	•□	Home (15) Import (Order: 2 ×	p 🔳 🔶 🔶	e e 🏻 e 📲				
E System Configura	ator 📑								
🖶 Business Partner		Document Type Name	POS Order		Document Type			•	^
Product 🎦		Document No Description	2			Sales Transactio	n		
	0	Sales Representative Currency		•	Delivery Rule Price List			•	
Recent Items		Payment Term Key			Payment Term			•	
	S 0	Warehouse	HQ Warehouse	•	Shipper			•	
		Business Partner							
		▲ Product							
		Product			Product Key	Grass			
		Charge		•					
				Charge Name					
		SKU			UPC/EAN				
		UOM		•	Ordered Quantity			2	
		Unit Price		80.00					

Figure 25: Import Orders Process in iDempiere(2)

2.9 Stop ActiveMQ Server

After completing the synchronization, you can turn off the ActiveMQ Server. To turn off the ActiveMQ Server, go back in the **Wanda POS Synchronisation** menu. Click on the item : **Turn ActiveMQ OFF**.

🦦 iDempiere 🎵	🚯 Apache Felix Web C	😃 Queues	💽 127.0.0.1 phpMyAd		+
iDemniere	O Menu			SuperUser@	System.*/System Administrator
Open Source ERP System	Menu			Feedback	Preference Change Role Log Out
Favourites	Home Turn Activ	eMQ OFF ×			* 🔞
 Menu System Configurator Element Table and Column Window, Tab & Field Reference Message Report & Process Recent Items 	C:\iDempiere>CA Java Runtime: Ora Heap sizes: currer JVM args: -Dactiv Dactivemq.home= Dactivemq.conf=C Extensions classp [C:\iDempiere\util ACTIVEMQ_HOM ACTIVEMQ_HOM ACTIVEMQ_DAT Connecting to JM Stopping broker: 1 "ActiveMQ Sever Appuyez sur une t	LL C:\iDempiere acle Corporation nt=92672k free=5 c:\iDempiere\utils C:\iDempiere\utils C:\iDempiere\utils c:\iDempiere\utils c:\iDempiere E: C:\iDempiere E: C:\iDempiere A: C:\iDempiere A: C:\iDempiere A: C:\iDempiere b: C:\iDempiere A: C:\iDempiere calhost stopped success ouche pour contin	elutils\activemq\bin\activemq-ad 1.7.0_40 C:\Program Files\Java 21657k max=1365504k C:\iDempiere\utils\activemq\bin\. Is\activemq\bin\Dactivemq.bis s\activemq\bin\Dactivemq.bis s\activemq\bin\Conf Iib,C:\iDempiere\utils\activemq\ Iutils\activemq\bin\ I	Imin stop a\jdk1.7.0_40\jre \\conf;C:\iDempiere\utils\a ase=C:\iDempiere\utils\a tmpdir=C:\iDempiere\utils bin\\lib\camel,C:\iDempi	\activemq\bin\\data; - ctivemq\bin\ s\activemq\bin\\data\tmp - ere\utils\activemq\bin\\ib\optic

Figure 26: Turn ActiveMQ OFF

2.10 Wanda POS Synchronisation Workflow

You can click on the workflow's elements. This is simply a workflow about how to operate the synchronisation between Wanda POS and iDempiere.



Figure 27: Synchronization Workflow

Enjoy a very good integration between Wanda POS and iDempiere ERP.

3 Thanks

Thanks to Redhuan D. Oon for his original idea about ADempiere integration with Openbravo POS. Thanks to the original designers of Openbravo. They have made a very good rolling, maintainable and scalable code.

4 About Me

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Thank you very much for your attention.