

Date: April 2017
Author: Jack Gerrard
Version: 4.3

This latest release introduces new functionality and add-in applications as part of our on-going development of the uniCenta oPOS project.

Fixes as notified and/or requested in uniCenta forums along with other directly and un-reported items are also included.

As 4.3 is a major update and it is **very strongly recommended** to use the Database Transfer Tool for all upgrades - including any 3.xx or 4.x series if you wish to include and access the latest changes and functionality. Please read the [uniCenta oPOS Database Transfer Guide](#).

This Readme and other Guides are made available to uniCenta Customers only.
Source code access is available to uniCenta Customer Subscribers only.

This version – like all previous versions - does not guarantee that any included upgrade scripts or modules will successfully upgrade any previous release versions.

IMPORTANT :

If you are upgrading: It is recommended you install uniCenta oPOS 4.3 in a separate space and test beforehand against a copy of your live production MySQL database to ensure its new functionality and enhancements suit your operation.

INSTALLERS:

Available for:

- Windows XP SP3 to Windows 10 – as a .exe
- Linux x86 & Linux x86_64 – as a .run
- Mac OS X 10.6 – as a zip

SUPPORT :

Only CUSTOM subscription plan Customers are provided support for any uniCenta oPOS Beta

SOURCE CODE:

The uniCenta oPOS 4.3 project is now Mavenized and is not shipped with any libraries which means the project file size is considerably smaller than previous versions.

When using Netbeans – or another similar IDE – create a New Project and use the Project with Existing POM option. Then Clean and Build.

On the initial load of the project there will be a delay whilst the required library files are added to the project. You will need to be connected to the internet to receive these.

Source code for posApps Card Payment services is not open source and distributed using our own license so as to conform to PCI and EMV regulations.

Source code for posApps Digital Receipts is not open source and distributed using our own license as it connects directly to and uses our private servers.

Enjoy!

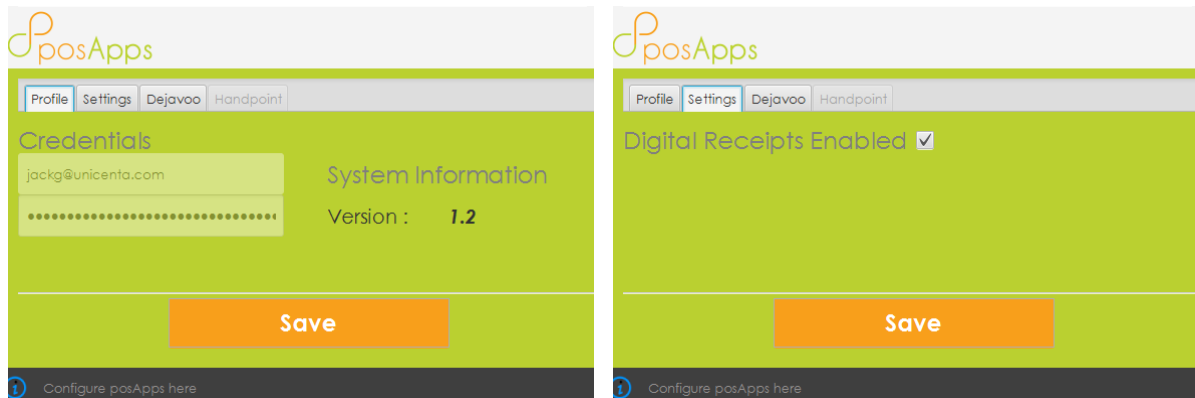
Jack

posApps

Integrates two new standard add-ins; sending a Digital Receipt (available globally) and PCI/EMV compliant Card payment services (available USA, Canada, certain South American countries).

posApps Digital Receipt

This app' is **enabled** by default for all new uniCenta oPOS 4.3 installations (or upgrades using the Database Transfer Tool).

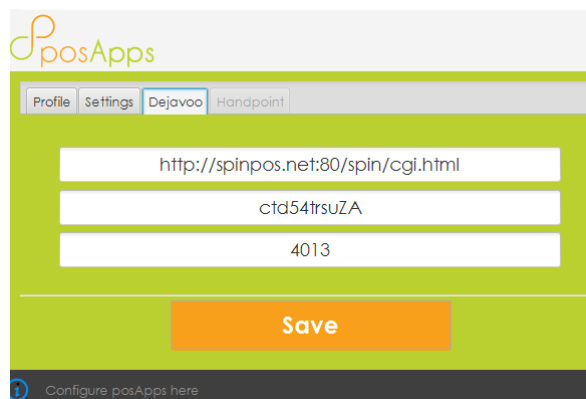


A valid posApps account is required. To get a posApps account use the Register button on the main posApps Digital Receipt form. Please visit <https://posapps.io> for more information.

To **disable** posApps: touch the posApps button  on the main sales screen button bar and check the Disable Digital Receipt option.

posApps PCI/EMV Card Payments

This feature requires a Dejavoo card payment device and a valid Merchant account.



Support for Handpoint devices is included at this time but no further development
Please contact info@unicenta.com for more information.

You can remove the posApps button from the Sales screen by going to Maintenance>Resources>Ticket.Buttons and add the exclude tags like shown below:

```
<!-- Open posapps settings / configuration screen (Default=ENABLED) -->
<!-- <button key="button.posapps" image="img.posapps" code="script.posapps" /> -->
```

GENERAL

DataLogicOrders

New: Preparation(future) for abstraction of addOrder methods for Remote Order Display from DataLogicSystem

DataLogicSales

Change: getProductStockState to Array – now returns pld and location

DataLogicSystem

Add: addOrder method for Remote Order Display

Add: execTicketRemoved to track Deleted Ticket order (pre-settlement)

JasperReports Viewer

Removed legacy JRViewer. Now uses JRViewer400

Change: JPanelReport

Change: JDialogReportPanel

Libraries

Major library updates to latest releases from central repositories – see Developer Maven section below

Change: JPanelConfigDatabase

Change: AppConfig

Change: Transfer

Change: start.bat + start.sh

Locales

Some incorrect English US translations corrected.

Fix: Examples Cheque to Check, Colour to Color

+ other various language additions and corrections

MySQL-create.sql & MySQL-upgrades-x.x.x.sql

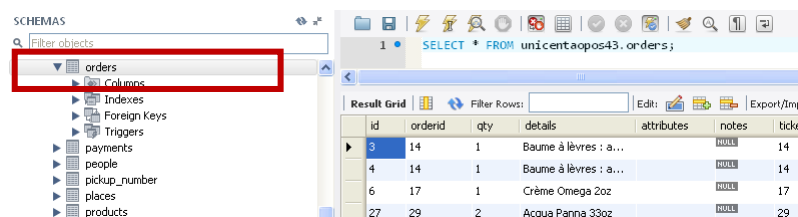
Add: Create Orders table

Add: Customer and Products memodate fields

Orders Table

For use with new JavaFX uniCentra Remote Display and OrderPop add-in app'.

New: Add new orders table



Resources

Change: Include in Printer.Ticket template
Change: Replace Ticket.Close script
Change: Add Voids by User report to Menu.Root
Add: script.posapps
Add: img.posapps

Roles

Add: Permissions for uservoids report for:

```
<class name="/com/openbravo/reports/uservoids.bs"/>
```

- Administrator
- Manager

Ticket List pop-up

Set Role to show Ticket list pop-up. On by default

New: Add to show in sales screen

```
<class name="sales.ShowList"/>
```

To switch off the pop-up add ignore tags like so

```
<!-- <class name="sales.ShowList"/> -->
```

CONFIGURATION

Database

uniCenta oPOS now uses the latest MySQL 6 driver version

Driver Class

New installs (without existing unicentaopos.properties) use new Driver Class

Upgrades (with existing unicentaopos.properties): Manual change to Driver Class required.
com.mysql.cj.jdbc.Driver

DB 1 & DB 2 (where used):

The DB 1 & DB 2 URL's connection string requires an additional parameter for backward MySQL compatibility – 5.5, 5.6 and early 5.7

Change: Add this after databasename:

?zeroDateTimeBehavior=convertToNull

Example New install:

jdbc:mysql://localhost:3306/unicentaopos?zeroDateTimeBehavior=convertToNull


Example Upgrade:

You must use the new mysql-connector and you must Change the **Driver Library** field.

C:\Program Files\unicentaopos-4.3\lib\mysql-connector-java-6.0.5.jar

DB URL :

jdbc:mysql://localhost:3306/unicentaopos**?zeroDateTimeBehavior=convertToNull**


18-Apr-2017 5:18:24 Ecothentik - Charme Industriel 

Configuration

General Locale Payment Method Peripherals System Options Ticket Setup Company **Database Setup**

By default uniCenta oPOS supports two separate databases!

Use the first as the main default database. The second database could be used for training, testing or connection to another location's database
Databases must be installed and configured correctly before trying to connect uniCenta oPOS
More information can be found on the uniCenta web site

Driver Library: C:\Program Files\unicentaopos-4.3\lib\mysql-connector-java-6.0.5.jar 

Database: MySQL Driver Class: com.mysql.cj.jdbc.Driver

Multi-DB: ☐ OFF



DB 1 Name: Main DB DB 2 Name:

IP 1 Address: Port: IP 2 Address: Port 2:

DB 1 URL: jdbc:mysql://localhost:3306/unicentaopos**?zeroDateTimeBehavior=convertToNull** DB 2 URL:

User: unicenta User:

Password: Password:

 Test  Test

Save Restore

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 152 MB of 990 MB Administrator

Weigh Scale

The two new additions have not been tested and have been included based on users experience and coding efforts. We do not have access to these weigh scale devices, so cannot confirm they function correctly. They are added for your convenience.

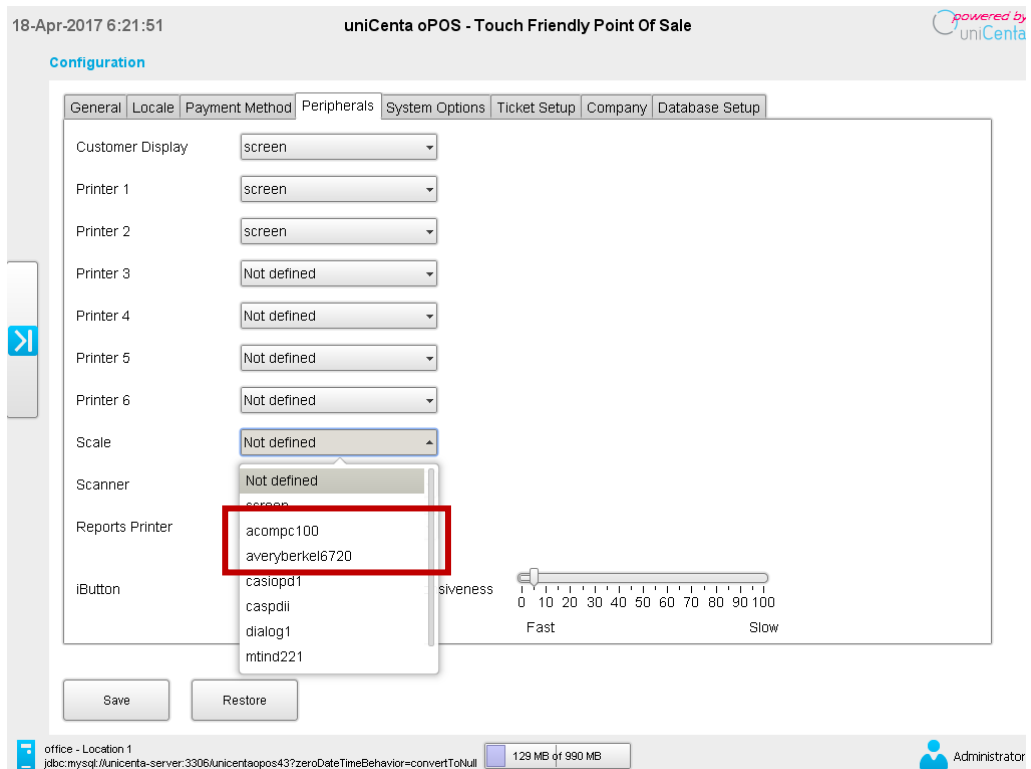
New: Acom PC100 – Provided by HJSingh

New: Avery Berkel 6720 - Community

Add: ScaleAcomPC100 + ScaleAvery class modules

Change: JPanelConfigPeripheral

Change: DeviceScale



REPORTS

Inventory Report

Change: Category and Location groups

Product Price Changes report

Fix: Incorrect (Dutch) language showing instead of Default (English UK)

Printer.Ticket & Printer.TicketReprint

Change: Clearer separation between transaction line detail and analysis and Card payment section.

Customer and Products MemoDate can be added to any ticket like Printer.TicketPreview and/or Printer.Ticket

Add: Customer:

```
<line><text align="left">MemoDate:</text>
<text>${ticket.getCustomer().printMemoDate()}</text></line>
```

Add: Product:

```
<line><text align="left">MemoDate:</text>
<text>${ticketline.getProperty("product.memodate","")}</text></line>
```

Report Products By Category

Incorrect Total Tax column calculation

Fix: sales_closedproducts_1.bs script

Change from: ticketlines.PRICE * taxes.rate AS totaltax,

Change to: sum((ticketlines.PRICE * taxes.rate) * units) AS totaltax,

Sales Taxes

Change::Addition of Net (Base) amount column

Change: rptsalestaxes.jrxml

Change: sales_saletaxes.bs

Tax Categories

Change: Addition of Net (Base) amount column

Change: rpttaxcatsales.jrxml

Change: sales_taxes.bs

Voids by User

Add: new report Maintenance>Reports>Voids by User

Add: uservoids.jrxml

Add: uservoids.bs

```
<class name="/com/openbravo/reports/uservoids.bs"/>
```

TicketSample

Alternative A4 Jasper Report to usual (80mm) thermal ticket printer

Add: ticketsample.jrxml

Add: ticketsample_lines.jrxml


```
<event key="ticket.close" code="script.printreport"/>
```

FORMS

Configuration>Ticket Setup

Allow for ticket Pickup ID to be reset to zero.

New: Add new Reset button with Action event

18-Apr-2017 5:19:53 Ecothentik - Charme Industriel 


Configuration

General Locale Payment Method Peripherals System Options **Ticket Setup** Company Database Setup


Receipt number min' length

Receipt number prefix

☐ Receipt Print Off

Length of Pickup Number 

Save Restore

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 164 MB of 990 MB  Administrator

Customers

Allow storage of a date. For example: a product's expiry date in a Ticket print line. It is included as a convenience for your own development, like in your own reports, and not used except in:

New: Add new memodate field – see also Printer.Ticket

The screenshot shows the 'Customers' management interface. On the left is a list of customers with 'uniCenta' selected. The main area displays the details for 'uniCenta' (Account ID: JG1, Search Key: 12345). Fields include Name, Card ID (123456789), Visible (checked), Customer Tax Category, VIP (checked), Discount (10%), Credit Limit (\$1,000.00), Current Debt (\$36.00), Debt Date (May 19, 2016), and Memo Date (Jan 1, 1900). A 'Contact' tab is active, showing fields for First Name (Jack), Last Name (Gerrard), email (jackg@unicenta.com), Telephone (+44 203 051 8601), Mobile Phone (+44 1234 56789), and Fax. A status bar at the bottom indicates 'office - Store01' and 'jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull' with a memory usage of 203 MB of 990 MB. The user 'Administrator' is logged in.

Customer CSV Import

Fix: Extended language characters i.e.: ä, ê and double-byte characters i.e.: 岸 now converted correctly during import process. MySQL database schema needs UTF-8

Change: CsvReader charset default set to UTF-8

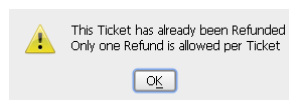
Edit Ticket

It was possible to Refund a Sales Ticket several times. This functionality has been removed and a Sales Ticket can only ever be Refunded once – whether Full or Partial refund.

Change: JPanelTicketsBagTicket

Change: FindTicketsRenderer

Change: DataLogicSales



JPanelCloseMoney

Change: Lineremoved SQL statements to include all Voids and Delete Tickets


JTicketBagShared

Change: deleteTicket method to now include Delete Tickets

JPanelTicket

Add: remoteOrderDisplay methods


Multiple Forms

Add function +  icon on each user form to expose underlying uniCenta oPOS hidden unique UUID reference. Intended use is to promote greater control of workflows in add-in scripts.

Copy-to-Clipboard an entity's hidden Universal Unique ID (UUID) to system Clipboard.

New: Double click event. Info icon left of a form's Name label where shown.

Add: Categories, Customers, Locations, People, Products, Suppliers, Tax Categories, Taxes


18-Apr-2017 5:24:20 **Ecothentik - Charme Industriel** 


Products

Category Buy Price None

Barcode Sell Price exc' None

Name None


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020182007079 - Perugina Cappuccino 3
020182008403 - Baci 5oz
020182008427 - Perugina Baci
020182017528 - Perugina Sorrento Hard
020182017542 - Perugina Capri Hard Ca
020182017559 - Perugina Glacia Mint
020182057005 - Perugina Milk Chocolate
020182057029 - Perugina Milk Chocolate
020182057036 - Perugina 51% Cacao
020182057050 - Perugina Dark Chocolat
020182057111 - Perugina Bittersweet Ch
020182108486 - Baci 5oz Bag Dark/ Haz
020182157132 - Perugina White Chocol
022306684852 - Cedrinca Bombottini
022306684890 - Cedrinca Effervescent F
022306684906 - Cedrinca Zaza
022306684913 - Cedrinca Byrd Carmel A
022306684920 - Cedrinca Liquor Filled C
022306684951 - Cedrinca Splikk
022306684968 - Cedrinca Napoletane
022306684975 - Cedrinca Gele
022306685033 - Cedrinca Fresh Mint 15

General **Stock** Button Properties Image

020182017528 - Perugina Sorrento Ha...

 Reference * 020182017528 Barcode * 020182017528

Name * Perugina Sorrento Hard Candy

Category * Candy


Attributes Mandatory ☐

Tax Category * Tax Standard


Sell Price inc' * \$4.99 UOM Each

Sell Price exc' \$4.34 Gross Profit Margin

Buy Price * \$2.50 42.4% 73.61%

Supplier  Supplier

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 131 MB of 990 MB Administrator

 UUID has been copied to your clipboard

OK

Multi-Tax scripts

For use where ticketline Value remains constant and SellPrice requires net calculation.

For example for German and Switzerland Take Out

In-ticket recalculation of a ticket line's Value and back recalculation of a Product's SellPrice exclusive of Tax.

New: script_takeout.txt – for individual selected ticket line

```
<button key="button.takeout" image="img.tax" code="script.takeout"/>
```

New: script_totaltakeout.txt – for all ticket lines

```
<event key="ticket.total" code="script.tickettotal"/>
```

Scripts are available from the Download area

OrderPop

Display (read only) a list of orders in process which have been sent from the Sales screen's Send to Remote printer button and together with uniCenta Remote Order Display app'.

Primary target audience is Hospitality, QSR and Fast Food outlets, yet it is equally valuable for Store/Warehouse order processing.

OrderPop is a separate app' and is launched from the uniCenta group's Start/Applications start menu of your PC.

New: com.unicenta.orderpop


Package includes JavaFX OrderPop.java form



Products

Allow storage of a date. For example: a product's expiry date in a Ticket print line. It is included as a convenience for your own development, like in your own reports, and only used at this time in: Printer.Ticket and Printer.TicketPreview

New: Add new memodate field –See also Printer.Ticket


18-Apr-2017 5:26:59 Ecothentik - Charme Industriel 

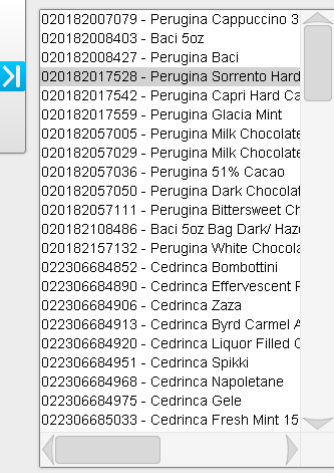
Products

Category: Buy Price: None

Barcode: Sell Price exc': None

Name: None

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020182007079 - Perugina Cappuccino 3
020182008403 - Baci 5oz
020182008427 - Perugina Baci
020182017528 - Perugina Sorrento Hard
020182017542 - Perugina Capri Hard Ca
020182017559 - Perugina Glacia Mint
020182057005 - Perugina Milk Chocolate
020182057029 - Perugina Milk Chocolate
020182057036 - Perugina 51% Cacao
020182057050 - Perugina Dark Chocolat
020182057111 - Perugina Bittersweet Ch
020182108486 - Baci 5oz Bag Dark/ Haz
020182157132 - Perugina White Chocol
022306684852 - Cedrinca Bombottini
022306684890 - Cedrinca Effervescent F
022306684906 - Cedrinca Zaza
022306684913 - Cedrinca Byrd Carmel A
022306684920 - Cedrinca Liquor Filled C
022306684951 - Cedrinca Spikki
022306684968 - Cedrinca Napoletane
022306684975 - Cedrinca Gele
022306685033 - Cedrinca Fresh Mint 15

General Stock **Button** Properties Image 020182017528 - Perugina Sorrento Ha...

Show ☒ In all Categories? ☐ Storage Cost \$0.00

Position in Category Product Size 0

Printer 1 **Min. and Max. stock is set in Product Location**

Memo Date  Apr 10, 2017 5:26:00 AM

Service Item ☐


Location	Qty	Min.	Max.
Store01	0.0		

Warranty ☐

Auxiliary ☐


Scale ☐

Variable Price ☐

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 160 MB of 990 MB  Administrator

Insert correct XML Header format Header required for a script.

New: Properties tab>Insert XML Header button


18-Apr-2017 5:27:22 Ecothentik - Charme Industriel 

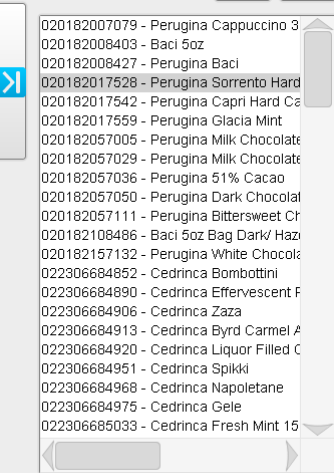
Products

Category: Buy Price: None

Barcode: Sell Price exc': None

Name: None


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020182007079 - Perugina Cappuccino 3
020182008403 - Baci 5oz
020182008427 - Perugina Baci
020182017528 - Perugina Sorrento Hard
020182017542 - Perugina Capri Hard Ca
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020182057036 - Perugina 51% Cacao
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022306684968 - Cedrinca Napoletane
022306684975 - Cedrinca Gele
022306685033 - Cedrinca Fresh Mint 15

General Stock **Button** **Properties** Image 020182017528 - Perugina Sorrento Ha...

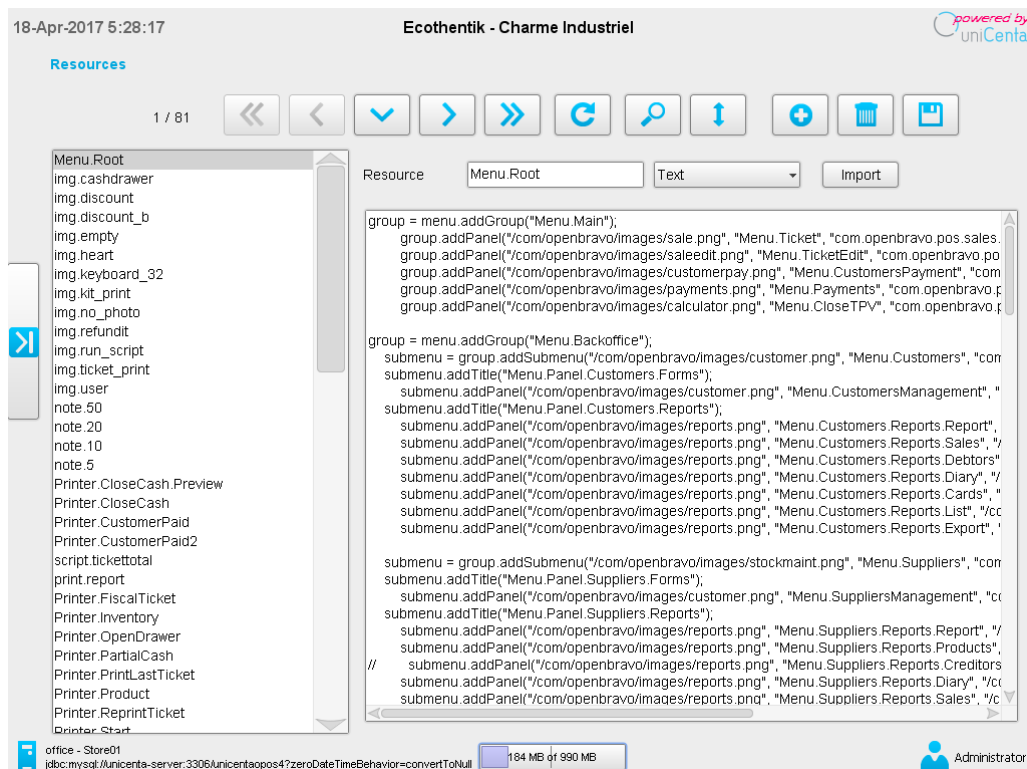
Insert XML Header

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
  <entry key="identifier">value</entry>
</properties>
```

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 163 MB of 990 MB  Administrator

Resources

New: Import button to allow easy import of additional and updated scripts or other external files rather than the usual Copy & Paste.



Product CSV Import

Fix: Extended language characters i.e.: ä, ê and double-byte characters i.e.: 岸 now converted correctly during import process. MySQL database schema needs UTF-8

Change: CsvReader charset default set to UTF-8

Fix: PriceBuy & PriceSell values now update correctly on re-import of source file.

Sales Screen

As add-in scripts options continue to grow extra space is required to accommodate. New toggle button has been introduced which expands the toolbar area to display script buttons in a second row.

New: Add second level to main toolbar button options.

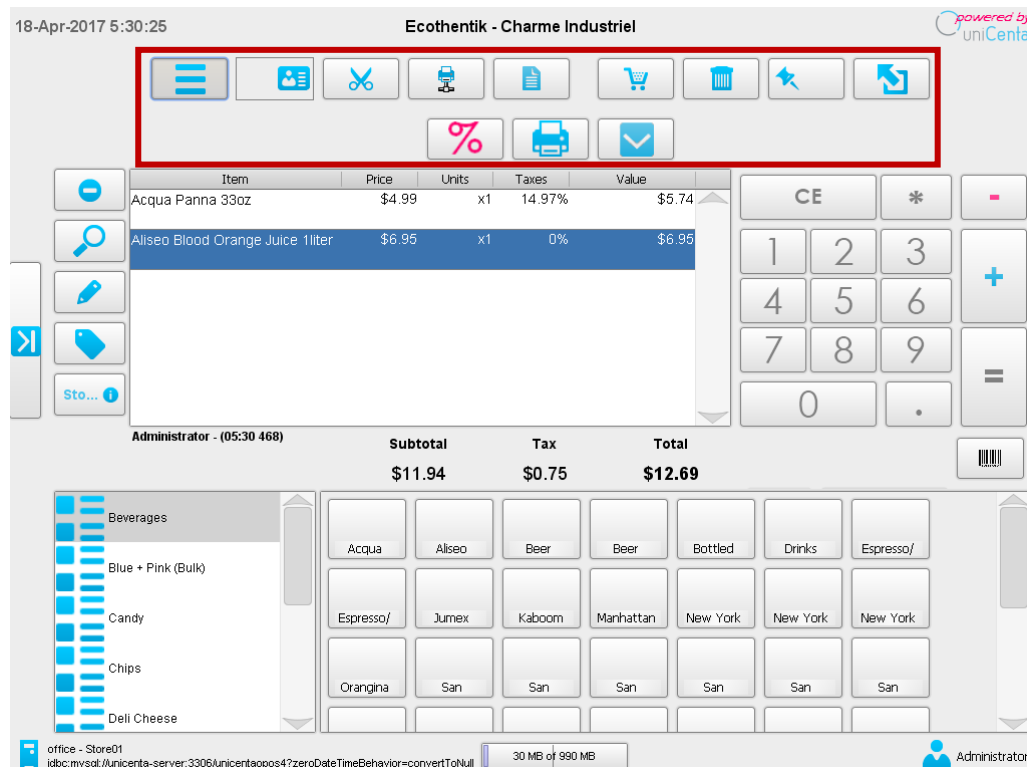
New: Using script.takeout will retain ticketline Value and back calculate net Value

Change: JPanelButtons buttons size reDimension to 80,45 standard

Change: Stock button popup now has Current and MemoDate info

Change: Order stack auto pop-up is now set On/Off in Resources>Roles

```
<class name="sales.ShowList"/>
```

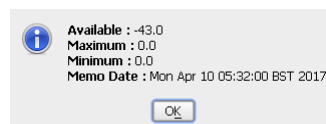


Stock Status info pop-up

Change: Show **only** current Location Stock quantity (table: stockcurrent) on-hand per terminal's declared Location – Resources>terminal name

```
<entry key="location">0</entry>
```

Change: Available + MemoDate info'



Tax Categories

Additional tax option default for use with for example Take Out

New: Tax Other – can be renamed to suit

Add: New Tax Rate 002 (Tax Other)

Taxes

Additional tax option default for use with for example Take Out

New: Tax Other – can be renamed to suit

Add: New Tax Rate 002 (Tax Other)

Note: When using the *script.takeout* or *script.totaltakeout* only Name, Tax Category and Rate fields should be completed.

Also note that if used in a Sales ticket and where this Rate% is greater than the Product's normally assigned Tax Category rate then the Sales ticket line will be calculated incorrectly.

18-Apr-2017 5:55:25 uniCenta oPOS - Touch Friendly Point Of Sale

Taxes

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Tax Exempt
Tax Standard
Tax Other

Name Tax Other

Tax Category Tax Other

Customer Tax Category

Parent Tax

Rate 0% ☐ Cascade

Order

office - Location 1
jdbc:mysql://unicenta-server:3306/unicentaopos43?zeroDateTimeBehavior=convertToNull 79 MB of 990 MB Administrator

Stock Management

Fix: Incorrect calculation of a ticket's totalValue.

Change: totalValue double format

Change: getProductStockList SQL Round() statement

Stock Quantity Update

Import data file from i.e.: Scanpal portable terminal device

Add/Update/Over-write existing Product/Location Current Stock values

New: Tools>StockQtyImport

New: inventoryqtyupdate.jrxml + inventoryqtyupdate.bs


Change: DataLogicSystem

Change: JPanelCSVImport

Change: Resources>Menu.Root

Change: Roles>

```
<class name="com.openbravo.pos.imports.StockQtyImport"/>
```

18-Apr-2017 5:35:25 **Ecothentik - Charme Industriel** 

Products Import

File:

Separator:

Records Found:

Changed:


Current Location : Store01

Use this utility to import a Comma Separated Variable(CSV) file such as from a Scanpal device to update Current Stock values

The Import columns accepted are **Barcode** and **Quantity**

Only Products with matching Barcodes and Location are updated

The **Location** used is that which is currently set in this terminal's Resource properties

office - Store01
jdbc:mysql://unicenta-server:3306/unicentaopos4?zeroDateTimeBehavior=convertToNull 121 MB of 990 MB  Administrator

DEVELOPERS

Language Framework

Java JDK 8 is required.

We are gradually including more of its functionality as we go along only in certain parts of uniCenta oPOS core code to maintain compatibility with the earlier code base.

JavaFX is introduced in the new OrderPop and is used exclusively in the posApps add-ins.

New: Introduction of Kotlin library

Tested in Netbeans and IntelliJ. Please ensure the Kotlin library is installed correctly.

Note: In Netbeans you may see a red warning icon in PaymentGatewayFac.java class line 42 : *return new PaymentGatewayDejavoo();*

This can be ignored as it is a false-positive and is a known Netbeans/Kotlin issue

Change: Refactor more Java6/7 functions to Java8 throughout codebase.

For example: lambda's

Maven

Centralise required uniCenta oPOS library file distribution

New: Ant build has been replaced and the uniCenta oPOS 4.3 project is now **Mavenised**

Uses POM 4.0.0 modelVersion

Uses maven.compiler 1.8 version

Repositories:

unicenta-repo - <http://repo.unicenta.org/maven2/>

Swing/Netbeans - [maven2-repository.netbeans.maven2](http://maven2-repository.netbeans.org/maven2/)

mvnrepository

Netbeans Maven - <http://bits.netbeans.org/maven2/>

IMPORTANT CHANGE TO MySQL Library:

uniCenta oPOS now uses latest MySQL JDBC '`com.mysql.cj.jdbc.driver`'

For a summary of major new features of Connector/J 6.0 (for details on the differences between the Connector/J 5.1 and 6.0 and for instructions on migrating, see [Section 4.3.1, "Upgrading to MySQL Connector/J 6.0"](#)):

- It supports MySQL 5.5, 5.6, and 5.7. See [Known Issues and Limitations](#) for issues about support for MySQL 5.5 and 5.6.
- It supports the JDBC 4.2 specification.
- It is a MySQL driver for the Java 8 platform.

A Netbeans project zip file is provided – see Downloads – and when setting up for the first time you will need to be patient whilst the necessary libraries and other files are downloaded from their online repositories.