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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 :**

uniCenta oPOS Beta and Release Candidate versions should not be run in production or live environments nor connected to a production or live MySQL database.

**INSTALLER:**

Betas, and other, only available as a zip file.

Release Candidates will be available with our standard installer – Windows only.

**SUPPORT :**

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

**SOURCE CODE:**

Source code is not available for any beta release. It will not be released beforehand.

Full source code is made available at the same time when uniCenta oPOS moves from beta to production stage.

Source code for posApps Card Payment services is not supplied so as to conform to PCI and EMV regulations.

Source code for posApps Digital Receipts is not supplied 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.

Please contact [info@unicenta.com](mailto:info@unicenta.com) for more information.

## 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

Change: JPanelConfigDatabase

Change: AppConfig

Change: Transfer

Change: start.bat + start.sh

## Locales

Some incorrect English US translations.

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 uniCenta 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:

- Administrator
- Manager

## Ticket List pop-up

Set Role to show Ticket list pop-up.

New: Add <class name="sales.ShowList"/> to show in sales screen

# CONFIGURATION

## Database

uniCenta oPOS now use latest MySQL 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 to:  
com.mysql.cj.jdbc.Driver

**DB 1 URL:**

Connection string requires additional parameter for backward MySQL compatibility – 5.5, 5.6 and early 5.7

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

**Example:**

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

Upgrades (with existing unicentaopos.properties) Please manually add the parameter after your database name:

**?zeroDateTimeBehavior=convertToNull**

**Example:**

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

**Weigh Scale**

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

Add: uservoids.jrxml

Add: uservoids.bs

## FORMS

### Configuration>Ticket Setup

Allow for ticket Pickup ID to be reset to zero.

New: Add new Reset button with Action event

## 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

## 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

## **Multi-Tax script**

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\_tax.txt – get from Scripts download area

## **OrderPop**

Displays a list of orders in process which have been sent from the Sales Screen's Send to Remote printer button. Its primary target audience is Hospitality, QSR and Fast Food outlets, but it is equally valuable for Store/Warehouse order processing.

It is a separate app' and is launched from the uniCenta group's Start/Applications 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 not used except in:

New: Add new memodate field – also added to sales screen stock pop up. See also Printer.Ticket

Insert correct XML Header format Header required for a script.

New: Properties tab>Insert XML Header button

## **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

## **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)

## **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

## **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'

## **DOCUMENTATION**

Customer setup – Work In Progress

Category setup – Work In Progress

Product setup – Work In Progress

Stock Management – Work In Progress

## 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 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.