

# POS Connect

## Compatible Versions:

Java Listener: v\_2.254

SIS Suite of Subroutines: v\_002, v\_003

Included with your new POSConnect license below is the list of new features and enhancements:

### 1- Multi-listener

One Listener per POS Register has been installed for more efficient bandwidth and to enhance performance and transaction time.

### 2- Record Lock add-on module (*Technical Tools>Record Locks>Record\_Locking\_Module*)

Record Locking Module allows for the handling of record lock scenarios successfully via the use of proper and detailed user error parsing and reporting as well as respective workflow management at the POS system. When the process detects a lock a message is returned to the calling process indicating that a record lock was found, the user ID of the person causing the lock and the business phone number belonging to the user ID. This message is then displayed at the Cashier POS. Full synchronization of the POSConnect Record Lock Management module on the POS system minimizes the Cashier processing times as well as the Student wait times. Functionality allows the bookstore to not only handle the record lock scenarios but also be able to resolve these issues as they are taking place and quickly while the student is still in front of the cashier.

### 3- Trap Delay (*Technical Tools>Documentation>Timeout\_Trap\_User\_Guide*)

Setting in *POSConnect.properties* file:

***TCSPOS.database.timeoutInSeconds=60***

This indicates the timeout for associated listener instance is 60 seconds. Each Colleague transaction has to complete in 60 seconds, or a timeout will be reached.

When the POSConnect Listener encounters a timeout during a purchase/refund transaction, running the Colleague subroutine XS.TCSPOS.PREPURCH, the XML that will be sent back will have a success status, along with a message indicating that the transaction is still processing in Colleague. The transaction will continue processing in the background until completed while the register is released to process the next student.

The timeout is controlled by the *POSConnect.properties* file that controls the settings for each instance of the listener. Each listener has its own *POSConnect.properties* file. The value of timeout is given in seconds.

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## Trap Delay Reporting

A Trap Delay Report can be generated for all the trapped transactions for further analysis.

Syntax:

cspREPORT [yyyy-mm-dd], [all]

cspMAIL [yyyy-mm-dd], [all]

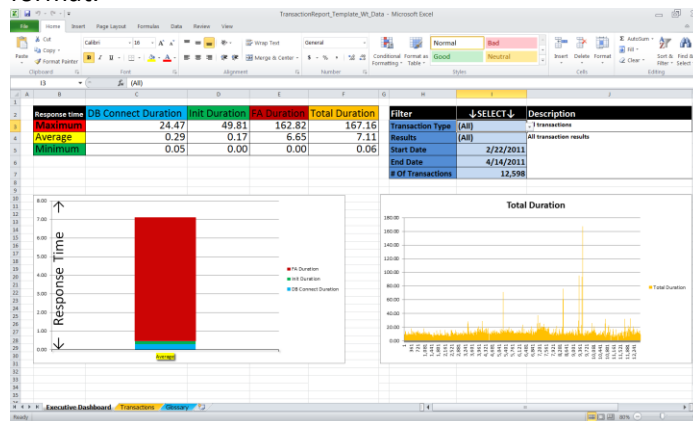
When no arguments are specified it prints or emails all the trapped students for the current live log file. This is the most recent date that the register was used to create transactions.

When entering a date in the above format in the command line it prints or emails all trapped students in the log file for the specified date.

Entering [all] in the command line it prints or emails all trapped students for the all log files in the archive including the existing live log file.

## 4- Performance Analytics (*Technical Tools>Report>Analytics\_Quick\_Reference\_Guide*)

The POSConnect Listener data extraction is an addition of a new log parsing code, so that both the log readability in INFO mode is improved, and important timing and performance transaction information is written to the log so that a parser can extract it and save it in a csv format.



Syntax:

PCT.live.report (Unix version)

PCT.live.report.cmd (Windows version)

PCT.test.report (Unix version)

PCT.test.report.cmd (Windows version)

This script takes no arguments, so it can be launched by double clicking it from windows. When started, it will prompt the user to choose between the current day's transactions or all transactions. Depending on the user's choice, it will create a csv file for either current day's live transactions or cumulative transactions and place it in the same directory as the script.

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## 5- DB persistent connection

Setting in *POSConnect.properties* file:

***TCSPOS.persistent.connection=true***

This option will allow the Listener to stay logged on to the underlying Database continuously. This feature will increase the speed of transactions tremendously by saving the cost of overhead for initialization and credential verification. The downside is that it will occupy one DB license for each listener. This option is mostly used during rush periods or whenever the DB licensing is not an issue. If the value is set to False the Listener logs out and reinitializes every time a transaction is transmitted.

## 6- Pause Option (*Technical Tools>Documentation>Pause\_Option*)

Setting in *POSConnect.properties* file:

***TCSPOS.pause.option=true.***

This new benchmarking feature enables the Listener to pause at a given milestone during the transaction which is shortly after the Colleague subroutine has returned and right before the results are converted back to XML and sent as an HTTP response for the operator to view on the registers. This *pause* benchmarking parameter is only enabled when this value is set to *true* and should only be used for benchmarking purposes. Otherwise the listener will continue to operate under normal conditions.

## 7- Scheduler Daemon

(*Technical Tools>Documentation>Task\_Scheduler\_Internal\_Documentation*)

(*Technical Tools>Documentation>Task\_Scheduler\_User\_Guide*)

This new independent standalone process is responsible for the license updates and other internal tasks of POSConnect such as transmission of Performance Analytics and Software updates.

The task scheduler is a separate program that is used to schedule daily tasks. Currently, it only has the ability to schedule daily recurring tasks. It runs as a separate process (or system service in Windows) than the POSConnect listeners and it can be started and stopped independently. It can also be used to schedule non-POSConnect related tasks, since it can run any command from the command line. The task scheduler is used in combination with online updates to provide automated online updates to and licensing tasks to POSConnect.



*The current version of POSConnect does not check if this task is running in the background. Please ensure that this task is always up and running to avoid unpredictable results during POS transactions.*

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## 8- On-Line Updates

The POSConnect Listener online updates are a group of additions to the existing POSConnect code, so that the license file, and any of the java libraries can be updated online, via a secure FTP connection. The automatic update libraries also have the capability of transmitting Performance Analytics.

*On-Line Updates provide:*

Auto License Update  
Auto Performance Analytics Transmission  
Auto Software Update

## 9- Deferred Processing

To further improve the performance of POSConnect response time, POSConnect offers a new fully configurable feature called *Deferred Processing*. The Deferred Processing option distributes the Transaction Life Cycle in to two separate components:

1. Fund verification & Authorization
2. Posting to F/A and A/R.

When Deferred Processing is enabled, after the transaction is authorized, POSConnect will launch a background process to continue and complete the posting phase while allowing the student to complete his/her purchase and physically exit the Cashier area. This background process launches a new OS process that will perform the processing and log the results. The approval process would be very quick (<3 seconds) while transactions would take longer be near-time. This process will eliminate the performance degradation issues and bottlenecks caused by client custom subroutines such as FA Transmittal or over populated data such as A/R invoices causing database to run slow.